



# PHOENIX

SUPPORT SYSTEMS

# ENGINEERING CATALOG



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# PHOENIX

## SUPPORT SYSTEMS

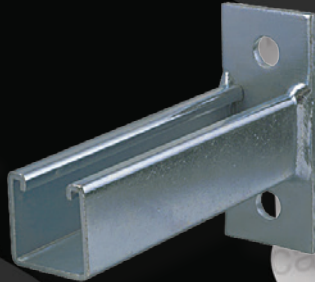
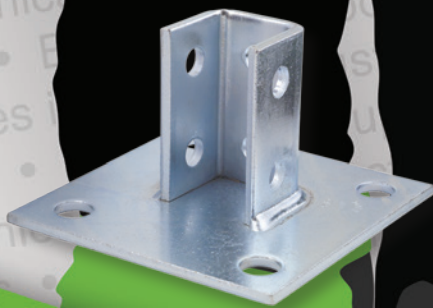


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We manufacture and deliver the highest quality strut accessory products available today with the absolute best service and support in the industry.






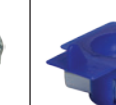
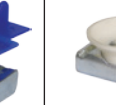
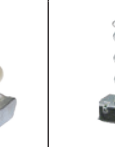
*With over 100 years of collective industry experience, we understand what it means to meet and exceed the expectations of our customers. We inventory strut accessory products in all finishes and materials dictated by our customers including 304 and 316 stainless steel.*









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





**Tel: 800-721-0404**  
**[www.phoenixsupports.com](http://www.phoenixsupports.com)**









**Phoenix Support System**  
**931 Summit Avenue**  
**Niles, Ohio 44446, USA**  
**Fax: 330-505-9959**

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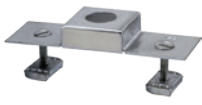




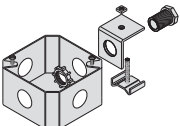
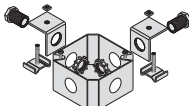
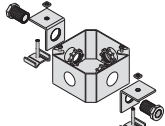
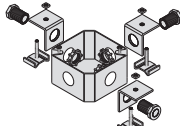
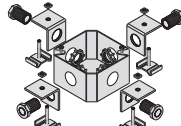
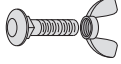
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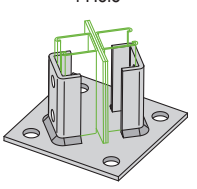
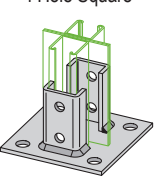
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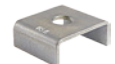
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## MATERIAL SPECIFICATIONS AND FINISHES:

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.

### GN – Green E-Coat

An 8-step electro-deposition epoxy coating. Following a thorough cleaning and phosphate rinse the epoxy is applied by immersing the part in liquid epoxy to ensure coverage in crevices and difficult areas. It is then baked on creating a 0.7 to 0.9 mil [18 – 23 µm] thick coating. This process negates drips and sags and produces a coating that withstands 1000 hours or more in a salt spray test. This coating is also an excellent base should the part need painted or powder coated before or after installation.

### PC - 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

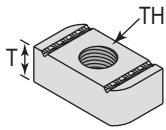
# Channel Nuts

Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

## CNN

Channel Nut No Spring

For all channel sizes except as noted



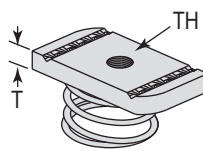
Catalog Number	Thread Size	T		Wt. lbs
		in	mm	
CNN20010EG	10-24	0.25	6.3	0.096
CNN20025EG	1/4"-20	0.25	6.3	0.096
CNN30031EG	5/16"-18	0.37	9.4	0.096
CNN30037EG	3/8"-16	0.37	9.4	0.084
CNN30050EG	1/2"-13	0.37	9.4	0.076
*CNN40050EG	1/2"-13	0.50	12.7	0.108
CNN30062EG	5/8"-11	0.37	9.4	0.097
*CNN40062EG	5/8"-11	0.50	12.7	0.130
CNN30075EG	3/4"-10	0.37	9.4	0.103
*CNN40075EG	3/4"-10	0.50	12.7	0.127
*CNN40087EG	7/8"-9	0.50	12.7	0.125

\*Cannot be used with 13/16" & 1" channel

## CNS

Channel Nut Short Spring

For 13/16" & 1" channel

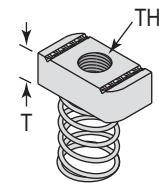


Catalog Number	Thread Size	T		Wt. lbs
		in	mm	
CNS20010EG	10-24	0.25	6.3	0.060
CNS20025EG	1/4"-20	0.25	6.3	0.068
CNS20031EG	5/16"-18	0.25	6.3	0.068
CNS30031EG	5/16"-18	0.37	9.4	0.092
CNS20037EG	3/8"-16	0.25	6.3	0.06
CNS30037EG	3/8"-16	0.37	9.4	0.088
CNS30050EG	1/2"-13	0.37	9.4	0.087
CNS30062EG	5/8"-11	0.37	9.4	0.104

## CNR

Channel Nut Regular Spring

For 13/8" & 15/8" channel

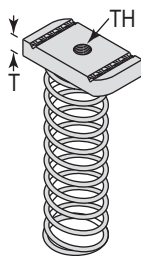


Catalog Number	Thread Size	T		Wt. lbs
		in	mm	
CNR20010EG	10-24	0.25	6.3	0.066
CNR20025EG	1/4"-20	0.25	6.3	0.072
CNR20031EG	5/16"-18	0.25	6.3	0.072
CNR30031EG	5/16"-18	0.37	9.4	0.0925
CNR20037EG	3/8"-16	0.25	6.3	0.066
CNR30037EG	3/8"-16	0.37	9.4	0.093
CNR30050EG	1/2"-13	0.37	9.4	0.084
CNR40050EG	1/2"-13	0.50	12.7	0.108
CNR40062EG	5/8"-11	0.50	12.7	0.162
CNR40075EG	3/4"-10	0.50	12.7	0.137
CNR40087EG	7/8"-9	0.50	12.7	0.114

## CNL

Channel Nut Long Spring

For 27/16" & 31/4" channel

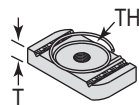


Catalog Number	Thread Size	T		Wt. lbs
		in	mm	
CNL20025EG	1/4"-20	0.25	6.3	0.10
CNL30037EG	3/8"-16	0.37	9.4	0.10
CNL40050EG	1/2"-13	0.50	12.7	0.11

## CNT

Channel Nut Top Spring

For all channel sizes except as noted



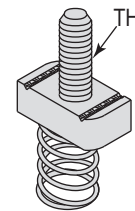
Catalog Number	Thread Size	T		Wt. lbs
		in	mm	
CNT20025EG	1/4"-20	0.25	6.3	0.093
CNT30037EG	3/8"-16	0.37	9.4	0.093
CNT30050EG	1/2"-13	0.37	9.4	0.092
*CNT40050EG	1/2"-13	0.50	12.7	0.101

\*Cannot be used with 13/16" & 1" channel

## CND

Channel Stud Nut Regular Spring

For 13/8" & 15/8" channel

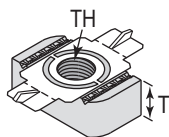


Catalog Number	Thread Size	Stud Length		Wt. lbs
		in	mm	
CND25100EG	1/4"-20	1"	25.4	0.08
CND25137EG	1/4"-20	1 3/8"	34.9	0.09
CND25150EG	1/4"-20	1 1/2"	38.1	0.09
CND37100EG	3/8"-16	1"	25.4	0.13
CND37112EG	3/8"-16	1 1/8"	28.6	0.13
CND37125EG	3/8"-16	1 1/4"	31.8	0.14
CND37150EG	3/8"-16	1 1/2"	38.1	0.15
CND37162EG	3/8"-16	1 5/8"	41.3	0.16
CND37212EG	3/8"-16	2 1/8"	54.0	0.16
CND50100EG	1/2"-13	1"	25.4	0.14
CND50125EG	1/2"-13	1 1/4"	31.8	0.15
CND50150EG	1/2"-13	1 1/2"	38.1	0.17
CND50200EG	1/2"-13	2"	50.8	0.19

## CNSQ

Channel Squeeze Nut

For all channel sizes except as noted

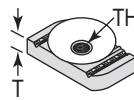


Catalog Number	Thread Size	T		Wt. lbs
		in	mm	
CNSQ2025EG	1/4"-20	0.37	9.4	0.093
CNSQ3037EG	3/8"-16	0.37	9.4	0.093
CNSQ3050EG	1/2"-13	0.37	9.4	0.092

## CNC

Channel Cone Nut

For all channel sizes except as noted

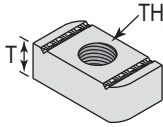


Catalog Number	Thread Size	T		Wt. lbs
		in	mm	
CNC30025EG	1/4"-20	0.37	9.4	0.093
CNC30037EG	3/8"-16	0.37	9.4	0.093
CNC30050EG	1/2"-13	0.37	9.4	0.092

General Info
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## CNN [D]

Channel Nut No Spring  
 For all channel sizes except as noted

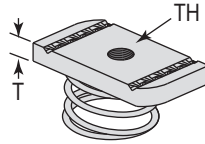


Catalog Number	Thread Size	T		Wt. lbs
		in	mm	
CNN2D025EG	1/4"-20	0.25	6.3	0.061
CNN3D031EG	5/16"-18	0.37	9.4	0.096
CNN3D037EG	3/8"-16	0.37	9.4	0.084
CNN3D050EG	1/2"-13	0.37	9.4	0.076
CNN30M10EG	M10	0.37	9.4	0.076
*CNN4D050EG	1/2"-13	0.50	12.7	0.108
*CNN40M12EG	M12	0.50	12.7	0.108
CNN3D062EG	5/8"-11	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" & 1" channel

## CNS [D]

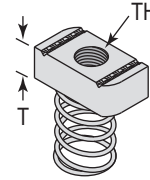
Channel Nut Short Spring  
 For 13/16" & 1" channel



Catalog Number	Thread Size	T		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]

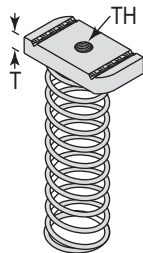
Channel Nut Regular Spring  
 For 13/8" & 15/8" channel



Catalog Number	Thread Size	T		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
CNR30M10EG	M10	0.37	9.4	0.093
CNR3D050EG	1/2"-13	0.37	9.4	0.084
CNR40M12EG	M12	0.50	12.7	0.108
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]

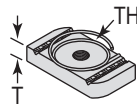
Channel Nut Long Spring  
 For 27/16" & 31/4" channel



Catalog Number	Thread Size	T		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	T		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

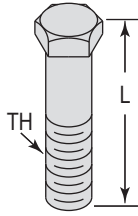
\*Cannot be used with 13/16" & 1" channel

# Hardware

Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

## HCS

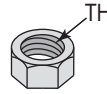
Hex Head Cap Screw



Catalog Number	Thread Size	Length	Wt. lbs
HCS2507EG	1/4"-20	3/4"	0.015
HCS2510EG	1/4"-20	1"	0.018
HCS2512EG	1/4"-20	1 1/4"	0.021
HCS2515EG	1/4"-20	1 1/2"	0.024
HCS3707EG	3/8"-16	3/4"	0.036
HCS3710EG	3/8"-16	1"	0.042
HCS3712EG	3/8"-16	1 1/4"	0.049
HCS3715EG	3/8"-16	1 1/2"	0.056
HCS3720EG	3/8"-16	2"	0.072
HCS5010EG	1/2"-13	1"	0.092
HCS5012EG	1/2"-13	1 1/4"	0.104
HCS5015EG	1/2"-13	1 1/2"	0.116
HCS5017EG	1/2"-13	1 3/4"	0.130
HCS5020EG	1/2"-13	2"	0.144

## HN

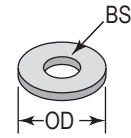
Hex Nut



Catalog Number	Thread Size	Wt. lbs
HN0025EG	1/4"-20	0.009
HN0037EG	3/8"-16	0.016
HN0050EG	1/2"-13	0.038
HN0062EG	5/8"-11	0.073
HN0075EG	3/4"-10	0.119

## FW

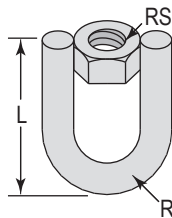
Flat Washer



Catalog Number	BS in	OD		Wt. lbs
		in	mm	
FW0025EG	1/4"	3/4"	19.0	0.008
FW0037EG	3/8"	1"	25.4	0.015
FW0050EG	1/2"	1 3/8"	34.9	0.039
FW0062EG	5/8"	1 3/4"	44.4	0.077
FW0075EG	3/4"	2"	50.8	0.110

## SW10

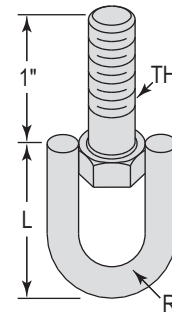
Swivel Female



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

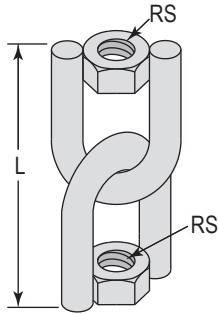


Catalog Number	Wt. Lbs	TH	L		R		Design Load	
			in	mm	in	mm	lbs	kN
SW110037EG	0.15	3/8"-16	1 3/4	44.4	1/4	6.3	620	2.76
SW110050EG	0.20	1/2"-13	2	50.8	3/8	9.4	1150	5.12

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## SW12

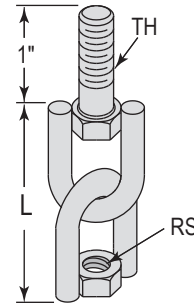
Swivel Female – Female



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

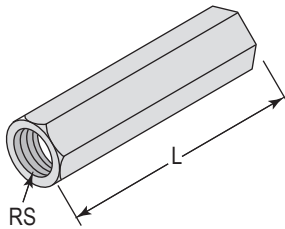
Swivel Male – Female



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

## RC

Rod Coupling



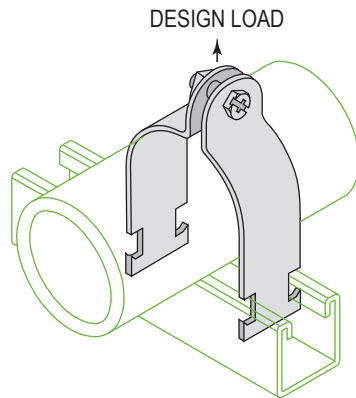
Catalog Number	RS	L		Hex Size	Wt. lbs
		in	mm		
RC0025EG	1/4"-20	7/8	22.2	3/8"	.03
RC0037EG	3/8"-16	1 3/4	44.4	9/16"	.08
RC0050EG	1/2"-13	1 3/4	44.4	11/16"	.12

# Strut Clamps

Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

## SCR

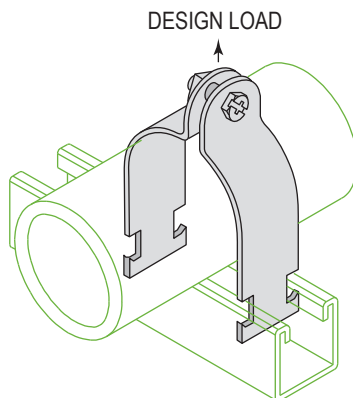
Rigid Strut Clamp



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



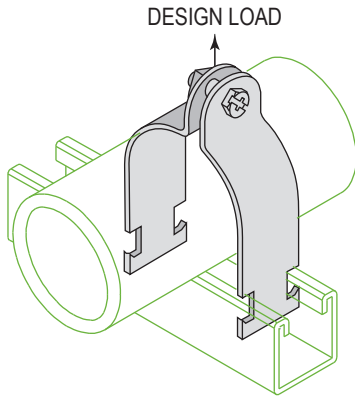
Catalog Number	Clamp Size		O.D.		Design Load		Wt. lbs
	in	mm	in	mm	lbs	kN	
SCU0050EG	½	15	0.773	19.6	400	1.78	0.10
SCU0075EG	¾	20	0.986	25.0	600	2.67	0.13
SCU0100EG	1	25	1.239	31.5	600	2.67	0.15
SCU0125EG	1¼	32	1.585	40.3	600	2.67	0.17
SCU0150EG	1½	40	1.820	45.7	800	3.56	0.29
SCU0200EG	2	50	2.286	58.1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

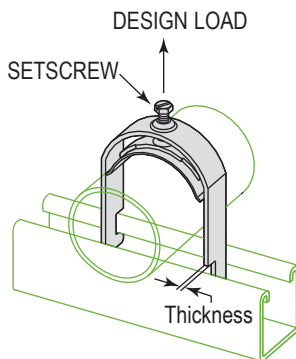
EMT Strut Clamp



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

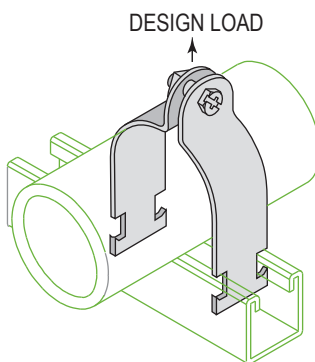
One Piece Universal Strut Clamps



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 4).

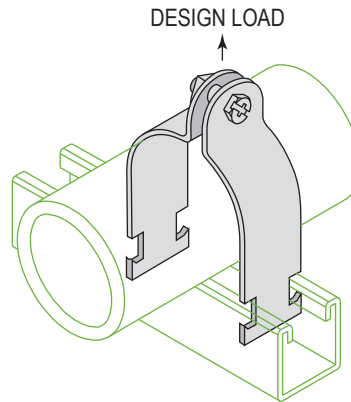
Catalog Number	Tubing Size		O.D.		Design Load		Wt. lbs
	in	mm	in	mm	lbs	kN	
SCC 0025CP	1/4	6	0.375	9.5	400	1.78	0.08
SCC 0037CP	3/8	10	0.500	12.7	400	1.78	0.09
SCC 0050CP	1/2	15	0.625	15.9	400	1.78	0.10
SCC 0075CP	3/4	20	0.875	22.2	400	1.78	0.11
SCC 0100CP	1	25	1.125	28.6	600	2.67	0.14
SCC 0125CP	1 1/4	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

# Strut Clamps

Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

## SCO

O.D. Strut Clamp



Catalog Number	Size O.D.		Design Load		Wt. lbs	
	in	mm	lbs	kN		
SCO 0025EG	¼	0.250	6.4	400	1.78	0.08
SCO 0037EG	⅜	0.375	9.5	400	1.78	0.08
SCO 0050EG	½	0.500	12.7	400	1.78	0.08
SCO 0062EG	⅝	0.625	15.9	400	1.78	0.09
SCO 0075EG	¾	0.750	19.0	400	1.78	0.10
SCO 0087EG	⅞	0.875	22.3	400	1.78	0.11
SCO 0100EG	1	1.000	25.4	600	2.67	0.14
SCO 0112EG	1¼	1.125	28.6	600	2.67	0.15
SCO 0125EG	1½	1.250	31.8	600	2.67	0.16
SCO 0137EG	1¾	1.375	34.9	600	2.67	0.16
SCO 0150EG	1½	1.500	38.1	600	2.67	0.16
SCO 0162EG	1⅝	1.625	41.3	600	2.67	0.17
SCO 0175EG	1¾	1.750	44.5	800	3.56	0.28
SCO 0187EG	1⅞	1.875	47.6	800	3.56	0.28
SCO 0200EG	2	2.000	50.8	800	3.56	0.29
SCO 0212EG	2¼	2.125	54.0	800	3.56	0.31
SCO 0225EG	2½	2.250	57.2	800	3.56	0.31
SCO 0237EG	2⅜	2.375	60.3	800	3.56	0.33
SCO 0250EG	2½	2.500	63.5	800	3.56	0.34
SCO 0262EG	2⅝	2.625	66.7	800	3.56	0.35
SCO 0275EG	2¾	2.750	69.9	800	3.56	0.33
SCO 0287EG	2⅞	2.875	73.0	800	2.56	0.38
SCO 0300EG	3	3.000	76.2	800	3.56	0.38
SCO 0312EG	3⅜	3.125	79.4	800	3.56	0.39

Catalog Number	Size O.D.		Design Load		Wt. lbs	
	in	mm	lbs	kN		
SCO 0325EG	3¼	3.250	82.6	800	3.56	0.41
SCO 0337EG	3⅜	3.375	85.7	800	3.56	0.43
SCO 0350EG	3½	3.500	88.9	800	3.56	0.45
SCO 0362EG	3⅝	3.625	92.1	1000	3.56	0.53
SCO 0375EG	3¾	3.750	95.3	1000	4.45	0.55
SCO 0387EG	3⅞	3.875	98.4	1000	4.45	0.57
SCO 0400EG	4	4.000	101.6	1000	4.45	0.59
SCO 0412EG	4¼	4.125	104.8	1000	4.45	0.59
SCO 0425EG	4½	4.250	108.0	1000	4.45	0.60
SCO 0437EG	4¾	4.375	111.1	1000	4.45	0.60
SCO 0450EG	4½	4.500	114.3	1000	4.45	0.63
SCO 0462EG	4⅝	4.625	117.5	1000	4.45	0.63
SCO 0475EG	4¾	4.750	120.7	1000	4.45	0.65
SCO 0487EG	4⅞	4.875	123.8	1000	4.45	0.66
SCO 0500EG	5	5.000	127.0	1000	4.45	0.70
SCO 0512EG	5¼	5.125	130.2	1000	4.45	0.71
SCO 0525EG	5½	5.250	133.4	1000	4.45	0.73
SCO 0537EG	5⅜	5.375	136.5	1000	4.45	0.75
SCO 0550EG	5½	5.500	139.7	1000	4.45	0.71
SCO 0562EG	5⅝	5.625	142.9	1000	4.45	0.74
SCO 0575EG	5¾	5.750	146.1	1000	4.45	0.73
SCO 0587EG	5⅞	5.875	149.2	1000	4.45	0.78
SCO 0600EG	6	6.000	152.4	1000	4.45	0.76
SCO 0612EG	6¼	6.125	155.6	1000	4.45	0.77

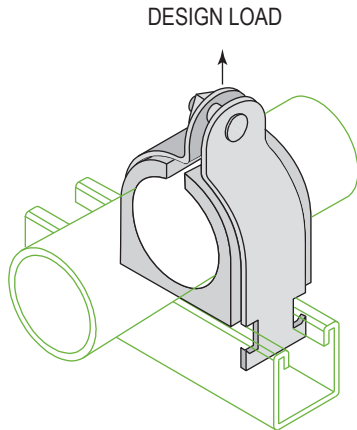
Catalog Number	Size O.D.		Design Load		Wt. lbs	
	in	mm	lbs	kN		
SCO 0625EG	6¼	6.250	158.8	1000	4.45	0.83
SCO 0637EG	6⅜	6.375	161.9	1000	4.45	0.98
SCO 0650EG	6½	6.500	165.1	1000	4.45	0.85
SCO 0662EG	6⅝	6.625	168.3	1000	4.45	0.85
SCO 0675EG	6¾	6.750	171.5	1000	4.45	0.86
SCO 0687EG	6⅞	6.875	174.6	1000	4.45	0.88
SCO 0700EG	7	7.000	177.8	1000	4.45	0.92
SCO 0712EG	7¼	7.125	181.0	1000	4.45	0.91
SCO 0725EG	7½	7.250	184.2	1000	4.45	0.92
SCO 0737EG	7⅜	7.375	187.3	1000	4.45	0.93
SCO 0750EG	7½	7.500	190.5	1000	4.45	0.93
SCO 0762EG	7⅝	7.625	193.7	1000	4.45	0.98
SCO 0775EG	7¾	7.750	196.9	1000	4.45	1.00
SCO 0787EG	7⅞	7.875	200.0	1000	4.45	1.19
SCO 0812EG	8¼	8.125	206.4	1000	4.45	0.99
SCO 0825EG	8½	8.250	209.6	1000	4.45	1.23
SCO 0837EG	8⅜	8.375	212.7	1000	4.45	1.25
SCO 0850EG	8½	8.500	215.9	1000	4.45	1.01
SCO 0862EG	8⅝	8.625	219.1	1000	4.45	1.03
SCO 0875EG	8¾	8.750	222.3	1000	4.45	1.11
SCO 0887EG	8⅞	8.875	225.4	1000	4.45	1.08
SCO 0900EG	9	9.000	228.6	1000	4.45	1.02
SCO 1137EG	11¾	11.375	288.9	1000	4.45	1.10
SCO 1275EG	12¾	12.750	323.9	1000	4.45	1.20

Other size available upon request.

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## CCT

Cushioned Tubing Strut Clamp

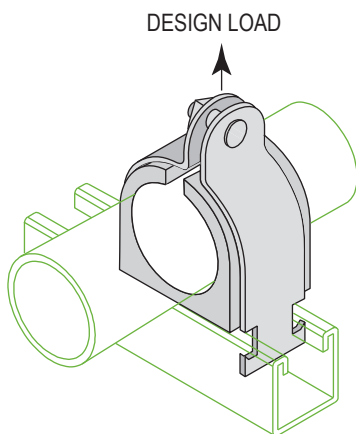


Catalog Number	Tubing Size O.D.			Wt. lbs
	in	in	mm	
CCT 0025YC	1/4	0.250	6.4	0.11
CCT 0037YC	3/8	0.375	9.5	0.12
CCT 0050YC	1/2	0.500	12.7	0.13
CCT 0062YC	5/8	0.625	15.9	0.15
CCT 0075YC	3/4	0.750	19.0	0.14
CCT 0087YC	7/8	0.875	22.3	0.21
CCT 0100YC	1	1.000	25.4	0.22
CCT 0112YC	1 1/8	1.125	28.6	0.24
CCT 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

# Strut Clamps

Standard finish is Yellow Zinc Dichromate (YC) • Product finishes & materials is on page 4.

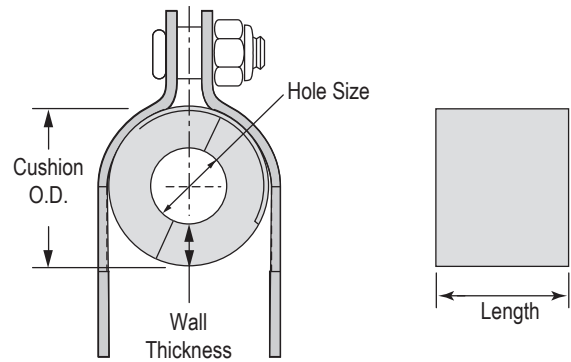


## CIT

### Therma-shield Clamp

- Temperature range: -70°F to 250°F (-200°C to +125°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.

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

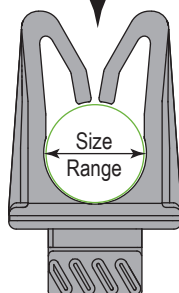


Dimensions (Inches)					Nominal 1/2" Wall Thickness		Nominal 3/4" Wall Thickness		Nominal 1" Wall Thickness		Nominal 1 1/2" Wall Thickness		Nominal 2" Wall Thickness	
Hole Size	Copper I.D.	Pipe O.D.	IPS	Length	Part No.	Cushion O.D.	Part No.	Cushion O.D.	Part No.	Cushion O.D.	Part No.	Cushion O.D.	Part No.	Cushion O.D.
3/8 ID	1/4	3/8	-	2.95	CIT 3812	1.33	CIT 3834	1.81	CIT 3810	2.31	CIT 3815	3.31	-	
1/2 ID	3/8	1/2	1/4	2.95	CIT 1212	1.44	CIT 1234	1.89	CIT 1210	2.39	CIT 1215	3.39	-	
5/8 ID	1/2	5/8	3/8	2.95	CIT 5812	1.56	CIT 5834	2.05	CIT 5810	2.54	CIT 5815	3.54	CIT 5820	4.54
3/4 ID	5/8	3/4	-	2.95	CIT 3412	1.69	CIT 3434	2.22	CIT 3410	2.71	CIT 3415	3.71	CIT 3420	4.71
7/8 ID	3/4	7/8	1/2	2.95	CIT 7812	1.81	CIT 7834	2.44	CIT 7810	2.82	CIT 7815	3.82	CIT 7820	4.82
1 1/8 ID	1	1 1/8	3/4	2.95	CIT 11812	2.19	CIT 11834	2.76	CIT 11810	3.06	CIT 11815	4.06	CIT 11820	5.06
1 3/8 ID	1 1/4	1 3/8	1	2.95	CIT 13812	2.31	CIT 13834	3.19	CIT 13810	3.33	CIT 13815	4.33	CIT 13820	5.33
1 5/8 ID	1 1/2	1 5/8	1 1/4	2.95	CIT 15812	2.56	CIT 15834	3.35	CIT 15810	3.65	CIT 15815	4.65	CIT 15820	5.65
1 7/8 ID	-	1 7/8		2.95	CIT 17812	2.81	CIT 17834	3.58	CIT 17810	4.43	CIT 17815	5.43	CIT 17820	6.43
2 1/8 ID	2	2 1/8	-	2.95	CIT 21812	3.23	CIT 21834	3.86	CIT 21810	4.16	CIT 21815	5.16	CIT 21820	6.16
2 3/8 ID	2 1/4	2 3/8	2	2.95	CIT 23812	3.48	CIT 23834	4.29	CIT 23810	3.92	CIT 23815	4.92	CIT 23820	5.92
2 5/8 ID	2 1/2	2 5/8	-	3.94	CIT 25812	4.13	CIT 25834	4.87	CIT 25810	4.87	CIT 25815	5.87	CIT 25820	6.87
2 7/8 ID	-	2 7/8	2 1/2	3.94	CIT 27812	4.38	CIT 27834	4.57	CIT 27810	4.67	CIT 27815	5.67	CIT 27820	6.67
3 1/8 ID	3	3 1/8	-	3.94	CIT 31812	4.63	CIT 31834	5.00	CIT 31810	5.14	CIT 31815	6.14	CIT 31820	7.14
3 1/2 ID	-	3 1/2	3	3.94	CIT 31212	4.88	CIT 31234	5.35	CIT 31210	5.89	CIT 31215	6.89	CIT 31220	7.89
3 5/8 ID	3 1/2	3 5/8	-	3.94	CIT 35812	5.13	CIT 35834	5.94	CIT 35810	6.44	CIT 35815	7.44	CIT 35820	8.44
4 1/8 ID	4	4 1/8	3 1/2	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

75 Lbs. Load  
(safety factor 3)



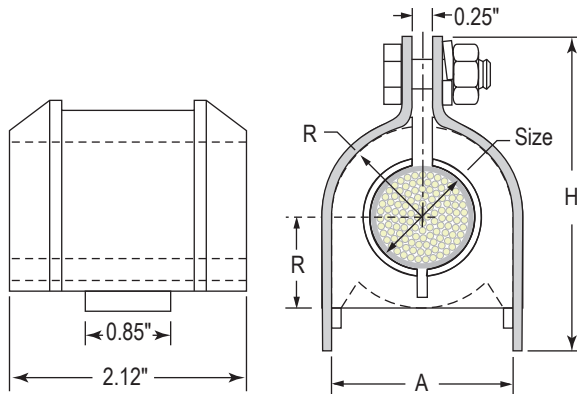
Strut Mounted



Strut Mount Part #	O.D. Tube Size		Catalog Number	EMT Size	
	O.D.	In		O.D.	In
CLC 0025TP	1/4"	0.250	CLE 0050TP	1/2"	0.706
CLC 0037TP	3/8"	0.375	CLE 0075TP	3/4"	0.922
CLC 0050TP	1/2"	0.500	CLE 0100TP	1"	1.163
CLC 0062TP	5/8"	0.625			
CLC 0075TP	3/4"	0.750			
CLC 0087TP	7/8"	0.875			
CLC 0112TP	1 1/8"	1.125			

## 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

# Strut Clamps

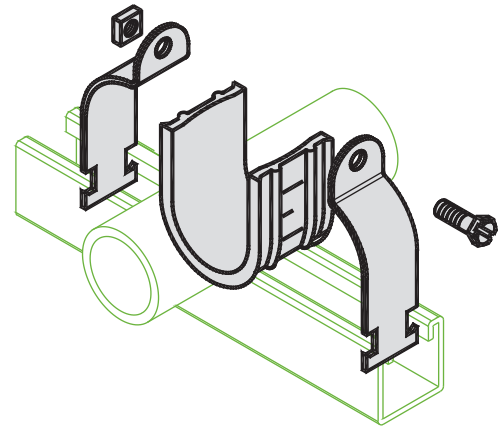
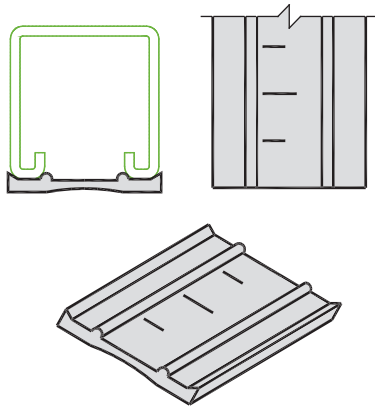
Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

## 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 1/16	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 3/8	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

### 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

### THIN WALL EMT CONDUIT

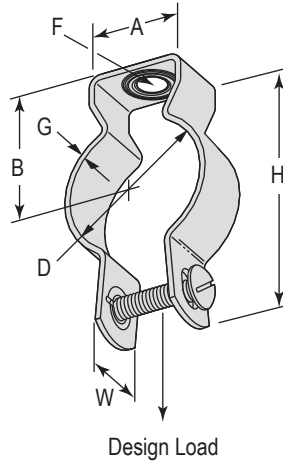
Nominal Pipe Size		PW Cut Length		Clamp Number	Qty Per Roll *
Inch	Metric	in	mm		
3/8	10	1 13/16	46.0	SCO 0075EG	165
1/2	15	2 3/16	55.6	SCE 0075EG	137
3/4	20	2 7/8	73.0	SCE 0100EG	1041
1	25	3 5/8	92.1	SCO 0137EG	82
1 1/4	32	4 11/16	119.1	SCO 0187EG	64
1 1/2	40	5 7/16	138.1	SCR 0150EG	55
2	50	6 7/8	174.6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

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

- General Info
- Channel Nuts
- Hardware
- Strut Clamps
- Conduit & Tubing Clamps
- Flat Fittings
- Angle Fittings
- Beam Clamps
- Brackets
- Concrete Inserts & Electrical
- Post Bases
- Rollers
- U-Fittings
- Wing Fittings
- Z-Fittings
- Technical Data
- Index

## PCH

Pipe and Conduit Hanger



Catalog No.	Pipe Size	EMT	Copper	Wt. Lbs	A	B	D	W	H	F	Gauge (G)	Design Load (lbs)	Screw
PCH 0050EG	3/8" & 1/2"	1/2"	-	0.062	0.72	0.93	0.80	0.75	1.87	9/32	18	200	1/4 x 1
PCH 0075EG	3/4"	3/4"	-	0.072	0.85	1.00	1.00	0.75	2.18	9/32	18	200	1/4 x 1
PCH 0100EG	1"	1"	-	0.088	0.97	1.12	1.20	0.87	2.50	9/32	18	200	1/4 x 1
PCHE0125EG	-	1 1/4"	-	0.108	0.97	1.25	1.50	0.87	2.75	9/32	18	200	1/4 x 1
PCH 0125EG	1 1/4"	1 1/2"	-	0.144	1.05	1.37	1.70	0.87	3.00	9/32	18	200	1/4 x 1
PCH 0150EG	1 1/2"	-	-	0.17	1.12	1.62	1.87	1.00	3.12	11/32	18	200	1/4 x 1
PCH 0200EG	2"	2"	-	0.28	1.14	2.00	2.25	1.00	3.87	11/32	18	350	1/4 x 1
PCH 0250EG	2 1/2"	2 1/2"	-	0.31	1.14	2.25	3.00	1.25	4.62	11/32	14	350	1/4 x 1
PCH 0300EG	3"	3"	-	0.34	1.18	2.50	3.50	1.25	5.38	11/32	14	350	1/4 x 1 1/2
PCH 0350EG	3 1/2"	3 1/2"	-	0.38	1.20	2.75	4.00	1.25	5.50	11/32	14	350	1/4 x 1 1/2
PCH 0400EG	4"	4"	-	0.45	1.20	3.00	4.50	1.25	5.87	11/32	14	350	1/4 x 1 1/2
*PCH 0050CP	-	-	1/2"	0.046	0.87	0.87	0.65	0.75	1.87	9/32	19	200	1/4 x 1
*PCH 0075CP	-	-	3/4"	0.064	0.87	1.00	0.87	0.87	2.37	9/32	18	200	1/4 x 1
*PCH 0100CP	-	-	1"	0.076	1.00	1.12	1.20	0.87	2.62	9/32	18	200	1/4 x 1
*PCH 0125CP	-	-	1 1/4"	0.093	1.12	1.50	1.38	0.87	3.00	9/32	18	200	1/4 x 1
*PCH 0150CP	-	-	1 1/2"	0.185	1.12	1.50	1.70	1.25	3.25	11/32	16	200	1/4 x 1
*PCH 0200CP	-	-	2"	0.220	1.12	2.00	2.13	1.25	4.00	11/32	16	200	1/4 x 1

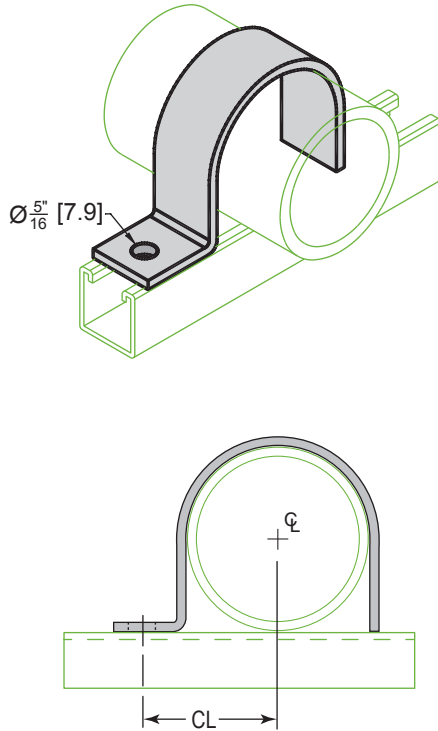
\*Finish is Copper Plate

# Conduit & Tubing Clamps

Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

## TC1

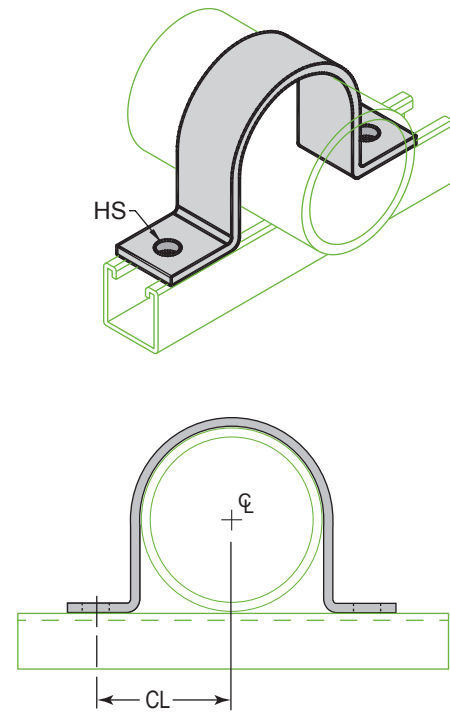
O.D. Tubing Clamp



Catalog Number	Wt. lbs	Tubing OD		CL	
		in	mm	in	mm
TC1 0025EG	0.040	1/4	6.3	9/16	14.3
TC1 0031EG	0.042	5/16	7.9	9/16	14.3
TC1 0037EG	0.052	3/8	9.5	5/8	15.9
TC1 0050EG	0.058	1/2	12.7	11/16	17.5
TC1 0062EG	0.071	5/8	15.8	3/4	19.0
TC1 0075EG	0.077	3/4	19.0	13/16	20.6
TC1 0087EG	0.087	7/8	22.2	7/8	22.2
TC1 0100EG	0.100	1	25.4	15/16	23.8

## PS2

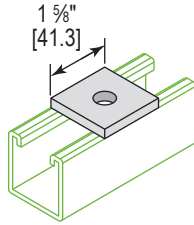
Pipe Strap



Catalog Number	Wt. lbs	Pipe Size		HS		CL	
		in	mm	in	mm	in	mm
PS2 0050EG	0.23	1/2	15	5/16	7.9	1 1/8	23.8
PS2 0075EG	0.26	3/4	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	1 1/4	32	5/16	7.9	1 7/16	33.3
PS2 0150EG	0.37	1 1/2	40	5/16	7.9	1 9/16	36.5
PS2 0200EG	0.92	2	50	7/16	11.1	2 1/8	54.0
PS2 0250EG	1.08	2 1/2	65	7/16	11.1	2 3/8	60.3
PS2 0300EG	1.33	3	80	7/16	11.1	2 11/16	68.3
PS2 0350EG	1.43	3 1/2	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	3 3/4	95.2
PS2 0600EG	2.27	6	150	9/16	14.2	4 1/4	107.9
PS2 0800EG	2.75	8	203	9/16	14.2	5 1/4	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

## F09 THRU F15

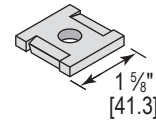
Square Washer



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

## F20 THRU F24

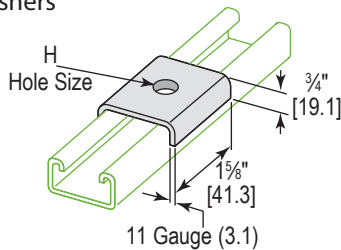
Notched Square Washer



Catalog Number	Wt. lbs	Bolt Size	
		in	mm
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

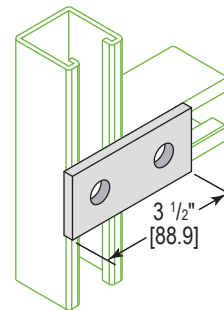
U-Shaped Washers



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

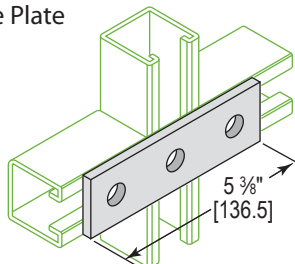
## F30

2 Hole Splice Plate


 Catalog Number: F30 0000EG  
 Weight: 0.34 Lbs

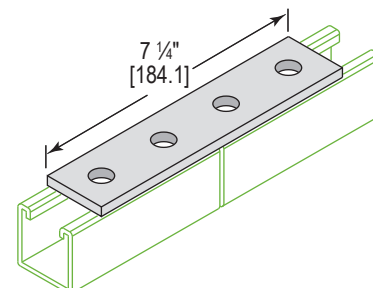
## F31

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.

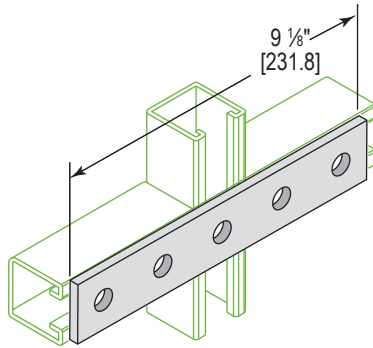
Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to center on 1 7/8" [47.6] centers unless specified.

# Flat Fittings

Standard finish is Zinc Electroplate (EG)  
 Product finishes and materials is on page 4 • Note: May be available with  $\frac{7}{16}$ " holes

## F33

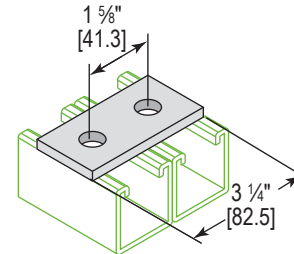
5 Hole Splice Plate



Catalog Number: F33 0000EG  
 Weight: 0.93 Lbs.

## F34

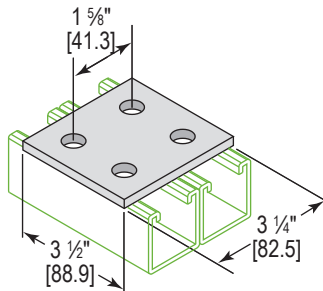
2 Hole Parallel Splice Plate



Catalog Number: F34 0000EG  
 Weight: 0.31 Lbs.

## F35

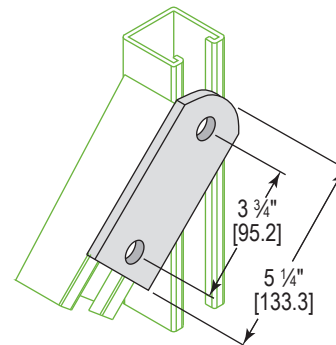
4 Hole Parallel Splice Plate



Catalog Number: F35 0000EG  
 Weight: 0.76 Lbs.

## F40

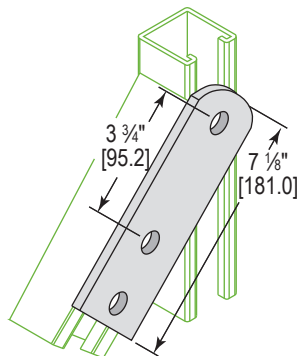
2 Hole Swivel Plate



Catalog Number: F40 0000EG  
 Weight: 0.52 Lbs.

## F41

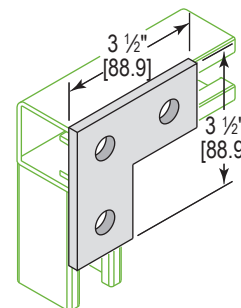
3 Hole Swivel Plate



Catalog Number: F41 0000EG  
 Weight: 0.53 Lbs.

## F50

3 Hole Corner Plate



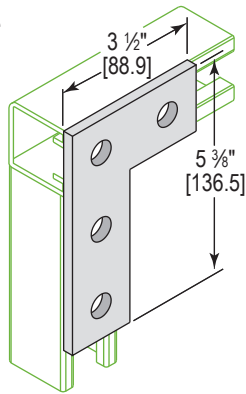
Catalog Number: F50 0000EG  
 Weight: 0.6 Lbs.

General Info
Channel Nuts
Hardware
Strut Clamps
Conduit & Tubing Clamps
Flat Fittings
Angle Fittings
Beam Clamps
Brackets
Concrete Inserts & Electrical
Post Bases
Rollers
U-Fittings
Wing Fittings
Z-Fittings
Technical Data
Index

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

## F51

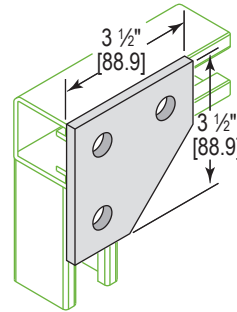
4 Hole Corner Plate



Catalog Number: F51 0000EG  
Weight: 0.71 Lbs.

## F52

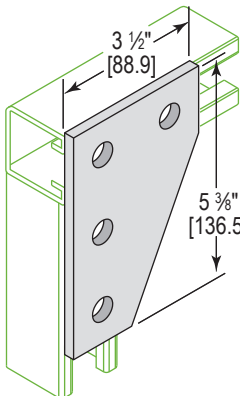
3 Hole Corner Gusset Plate



Catalog Number: F52 0000EG  
Weight: 0.65 Lbs.

## F53

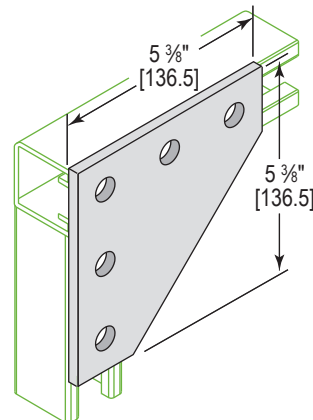
4 Hole Corner Gusset Plate



Catalog Number: F53 0000EG  
Weight: 0.95 Lbs.

## F54

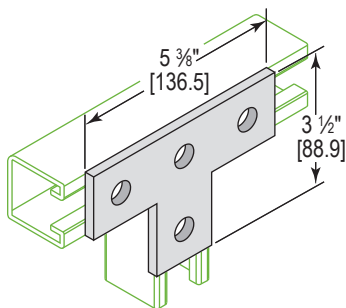
5 Hole Corner Gusset Plate



Catalog Number: F54 0000EG  
Weight: 0.95 Lbs.

## F60

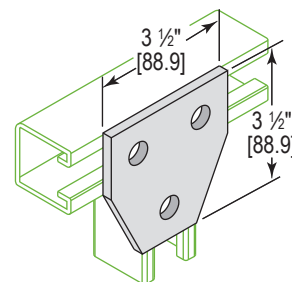
4 Hole Tee Plate



Catalog Number: F60 0000EG  
Weight: 0.70 Lbs.

## F61

3 Hole Tee Gusset Plate



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

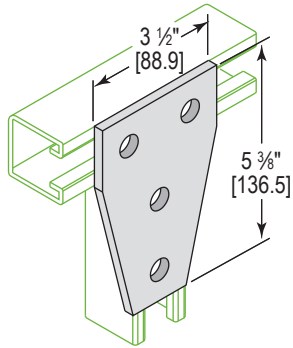
Material is  $\frac{1}{8}$ " [4.3] wide x  $\frac{1}{4}$ " [6.3] thick unless specified. Holes are  $\frac{9}{16}$ " (14.3) diameter,  $\frac{13}{16}$ " [20.6] center to edge on  $\frac{1}{8}$ " [4.7.6] centers unless specified.

# Flat Fittings

Standard finish is Zinc Electroplate (EG)  
 Product finishes and materials is on page 4 • Note: May be available with  $\frac{7}{16}$ " holes

## F62

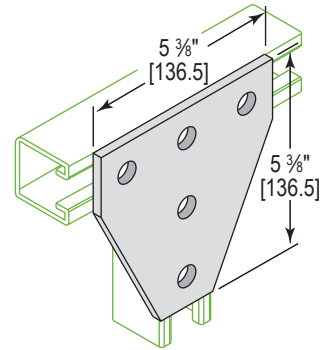
4 Hole Tee Gusset Plate



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

## F63

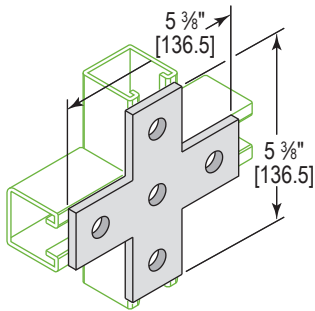
5 Hole Tee Gusset Plate



Catalog Number: F63 0000EG  
 Weight: 1.39 Lbs.

## F70

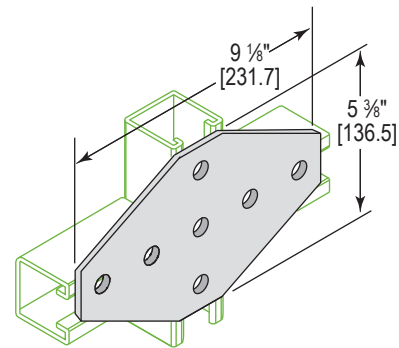
5 Hole Cross Plate



Catalog Number: F70 0000EG  
 Weight: 0.95 Lbs.

## F71

7 Hole Cross Gusset Plate



Catalog Number: F71 0000EG  
 Weight: 2.32 Lbs.

General Info

Channel Nuts

Hardware

Strut Clamps

Conduit & Tubing Clamps

Flat Fittings

Angle Fittings

Beam Clamps

Brackets

Concrete Inserts & Electrical

Post Bases

Rollers

U-Fittings

Wing Fittings

Z-Fittings

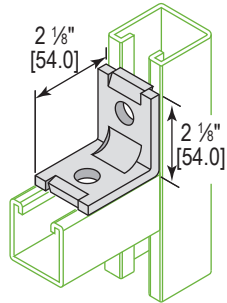
Technical Data

Index

Material is  $1\frac{5}{16}$ " [41.3] wide x  $\frac{1}{4}$ " [6.3] thick unless specified. Holes are  $\frac{9}{16}$ " (14.3) diameter,  $1\frac{3}{16}$ " [20.6] center to edge on  $1\frac{7}{8}$ " [47.6] centers unless specified.

## L10

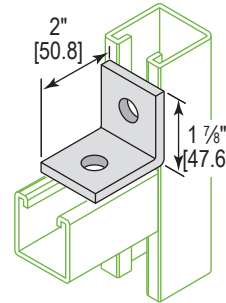
2 Hole No Twist Corner Angle



Catalog Number: L10 0000EG  
Weight: 0.36 Lbs.

## L11

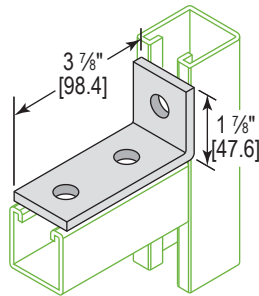
2 Hole Corner Angle



Catalog Number: L11 0000EG  
Weight: 0.36 Lbs.

## L12

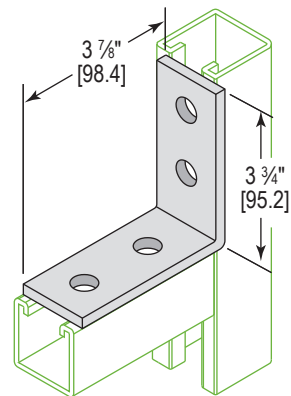
3 Hole Corner Angle



Catalog Number: L12 0000EG  
Weight: 0.40 Lbs.

## L13

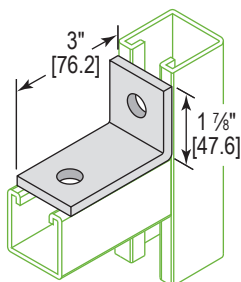
4 Hole Corner Angle



Catalog Number: L13 0000EG  
Weight: 0.76 Lbs.

## L14

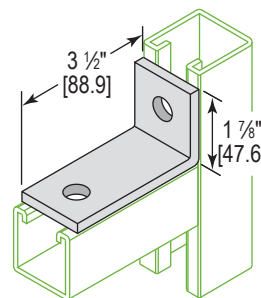
2 Hole 3" Corner Angle



Catalog Number: L14 0000EG  
Weight: 0.45 Lbs.

## L15

2 Hole 3 1/2" 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.

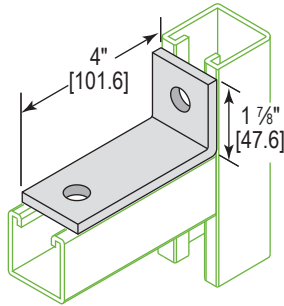
# Angle Fittings

Standard finish is Zinc Electroplate (EG)

Product finishes and materials is on page 4 • Note: May be available with 7/16" holes

## L16

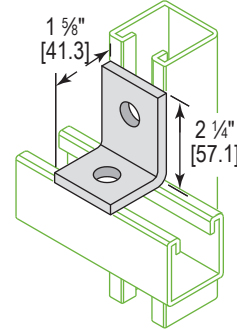
2 Hole 4" Corner Angle



Catalog Number: L16 0000EG  
Weight: 0.54 Lbs.

## L20

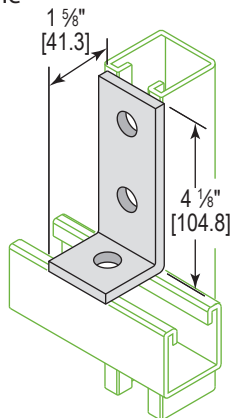
2 Hole Cross Corner Angle



Catalog Number: L20 0000EG  
Weight: 0.34 Lbs.

## L21

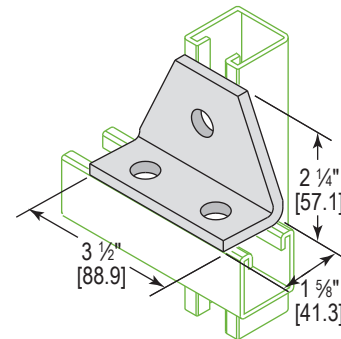
3 Hole Corner Angle



Catalog Number: L21 0000EG  
Weight: 0.52 Lbs.

## L22

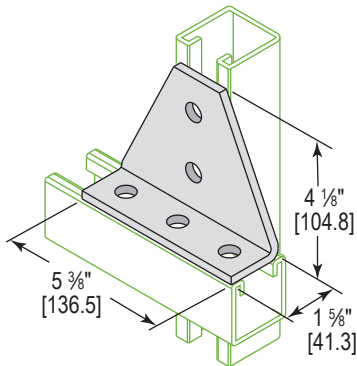
3 Hole Cross Gusset Corner Angle



Catalog Number: L22 0000EG  
Weight: 0.65 Lbs.

## L23

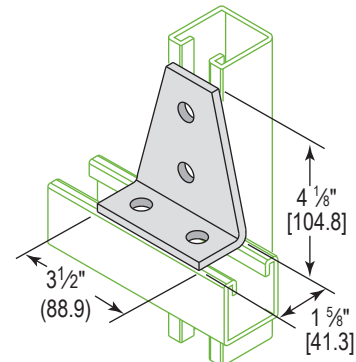
5 Hole Cross Gusset Corner Angle



Catalog Number: L23 0000EG  
Weight: 1.4 Lbs.

## L24

4 Hole Gusset Shelf Angle



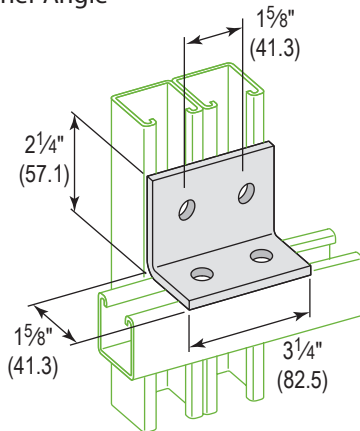
Catalog Number: L24 0000EG  
Weight: 1.02 Lbs.

General Info
Channel Nuts
Hardware
Strut Clamps
Conduit & Tubing Clamps
Flat Fittings
Angle Fittings
Beam Clamps
Brackets
Concrete Inserts & Electrical
Post Bases
Rollers
U-Fittings
Wing Fittings
Z-Fittings
Technical Data
Index

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.

## L25

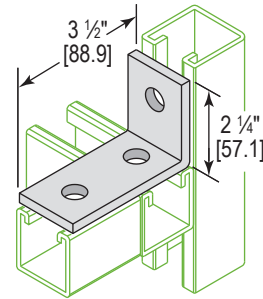
4 Hole Gusset Corner Angle



Catalog Number: L25 0000EG  
Weight: 0.75 Lbs.

## L30

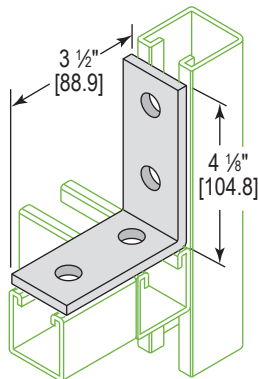
3 Hole 3 Way Corner Angle



Catalog Number: L30 0000EG  
Weight: 0.52 Lbs.

## L31

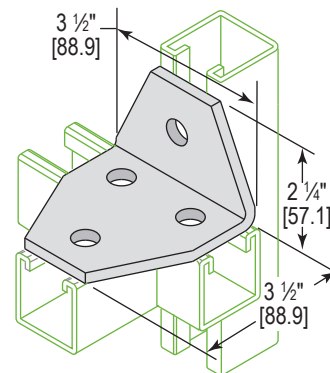
4 Hole 3 Way Corner Angle



Catalog Number: L31 0000EG  
Weight: 0.71 Lbs.

## L32

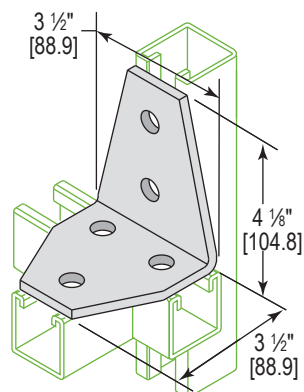
4 Hole 3 Way Gusset Corner Angle



Catalog Number: L32 0000EG  
Weight: 0.96 Lbs.

## L33

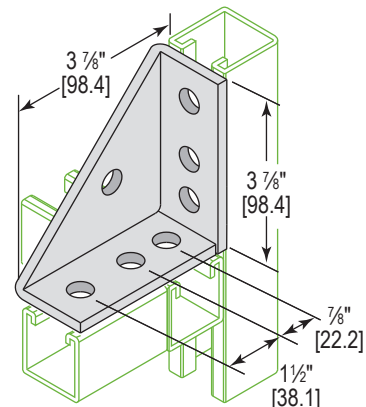
5 Hole 3 Way Gusset Corner Angle



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 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 1/8" [47.6] centers unless specified.

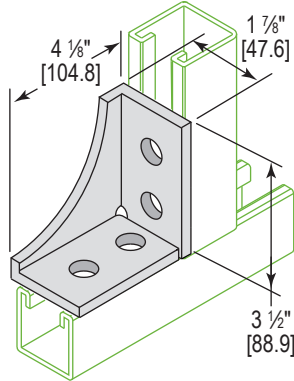
# Angle Fittings

Standard finish is Zinc Electroplate (EG)

Product finishes and materials is on page 4 • Note: May be available with  $\frac{7}{16}$ " holes

## L35

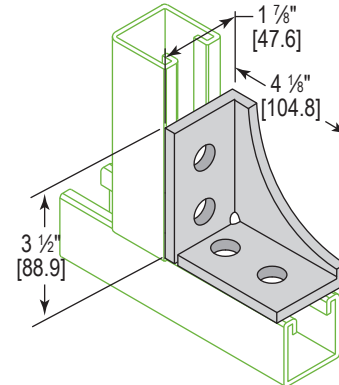
4 Hole Gusset Corner Angle Left



Catalog Number: L35 0000EG  
Weight: 1.15 Lbs.

## L36

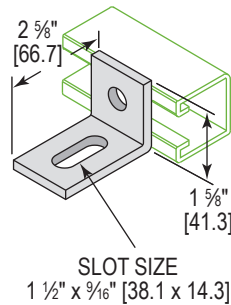
4 Hole Gusset Corner Angle Right



Catalog Number: L36 0000EG  
Weight: 1.2 Lbs.

## L40

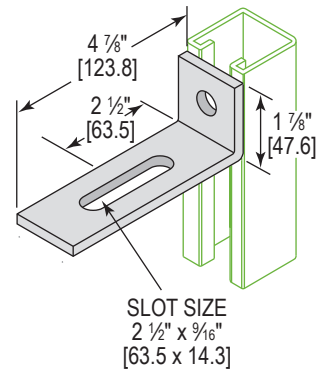
2 Hole  $2\frac{5}{8}$ " Adjustable Corner Angle



Catalog Number: L40 0000EG  
Weight: 0.35 Lbs.

## L41

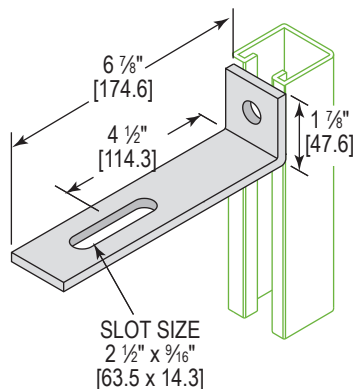
2 Hole  $4\frac{7}{8}$ " Adjustable Corner Angle



Catalog Number: L41 0000EG  
Weight: 0.58 Lbs.

## L42

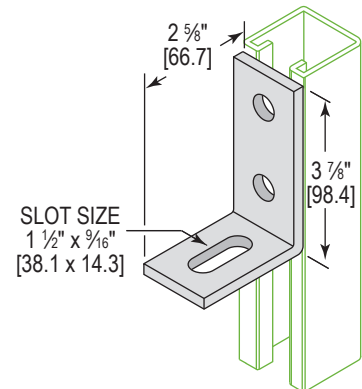
2 Hole  $6\frac{7}{8}$ " Adjustable Corner Angle



Catalog Number: L42 0000EG  
Weight: 0.8 Lbs.

## L43

3 Hole Adjustable Corner Angle



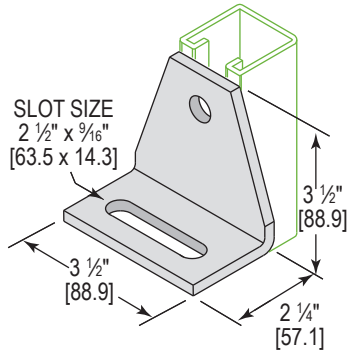
Catalog Number: L43 0000EG  
Weight: 0.7 Lbs.

General Info
Channel Nuts
Hardware
Strut Clamps
Conduit & Tubing Clamps
Flat Fittings
Angle Fittings
Beam Clamps
Brackets
Concrete Inserts & Electrical
Post Bases
Rollers
U-Fittings
Wing Fittings
Z-Fittings
Technical Data
Index

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

## L44

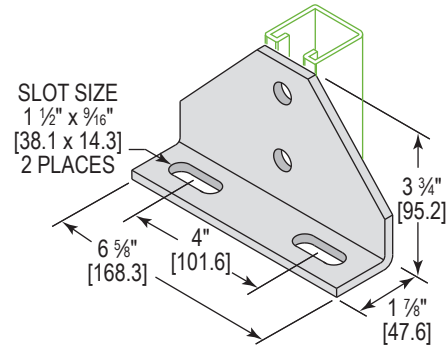
2 Hole Adjustable Gusset Corner Angle



Catalog Number: L44 0000EG  
Weight: 0.87 Lbs.

## L45

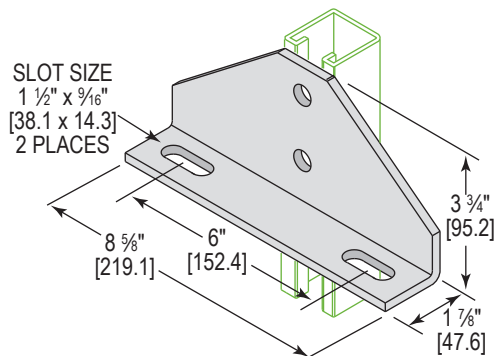
4 Hole 6 5/8" Adjustable Gusset Corner Angle



Catalog Number: L45 0000EG  
Weight: 1.62 Lbs.

## L46

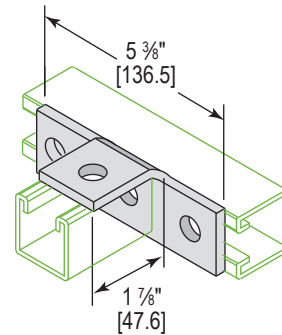
4 Hole 8 5/8" Adjustable Corner Angle



Catalog Number: L46 0000EG  
Weight: 2.4 Lbs.

## L50

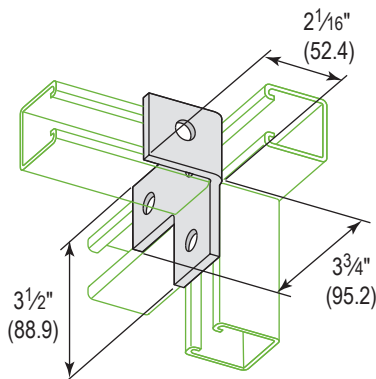
4 Hole Offset Corner Angle



Catalog Number: L50 0000EG  
Weight: 0.71 Lbs.

## L51

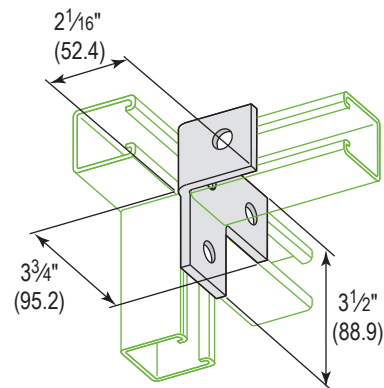
4 Hole Offset Bent Tee (left hand)



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 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.

# Angle Fittings

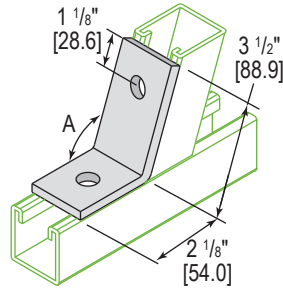
Standard finish is Zinc Electroplate (EG)

Product finishes and materials is on page 4 • Note: May be available with  $\frac{7}{16}$ " holes

## 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"

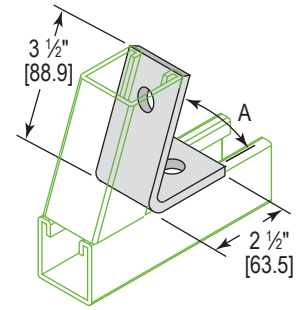


Catalog Number: L60 0000EG  
Weight: 0.58 Lbs.

## 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"

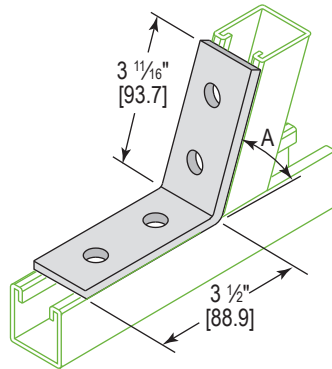


Catalog Number: L61 0000EG  
Weight: 0.56 Lbs.

## 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"

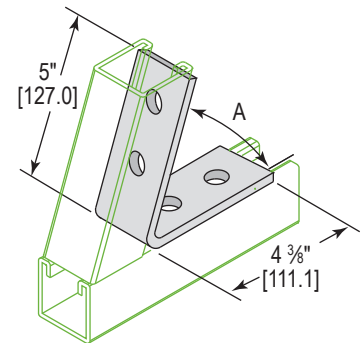


Catalog Number: L62 0000EG  
Weight: 0.76 Lbs.

## 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: L63 0000EG  
Weight: 0.93 Lbs.

General Info

Channel Nuts

Hardware

Strut Clamps

Conduit & Tubing Clamps

Flat Fittings

Angle Fittings

Beam Clamps

Brackets

Concrete Inserts & Electrical

Post Bases

Rollers

U-Fittings

Wing Fittings

Z-Fittings

Technical Data

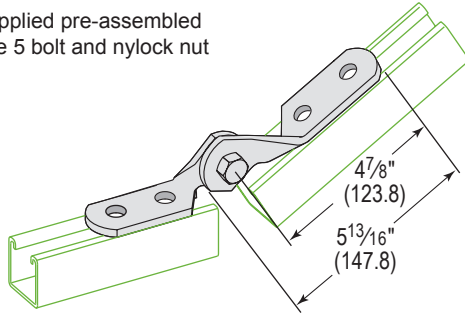
Index

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

## L64

4 Hole Adjustable Corner Angle

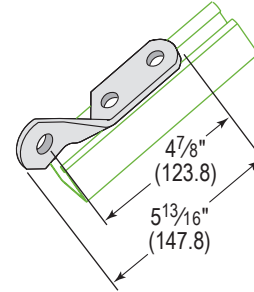
Note: Supplied pre-assembled with grade 5 bolt and nylock nut



Catalog Number: L64 0000EG  
 Weight: 1.26 Lbs.

## L64H

2 Hole Adjustable Angle Half

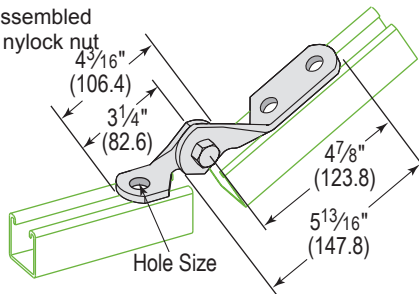


Catalog Number: L65H 0000EG  
 Weight: 0.53 Lbs.

## L65

3 Hole Adjustable Corner Angle

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

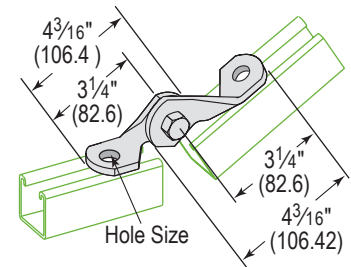


Catalog Number	Wt. lbs	Bolt Size		Hole Size	
		in	mm	in	mm
L65 0037EG	1.07	3/8"	8	7/16"	11.1
L65 0050EG	1.07	1/2"	12	9/16"	14.3
L65 0062EG	1.07	5/8"	16	11/16"	17.5

## L66

2 Hole Adjustable Corner Angle

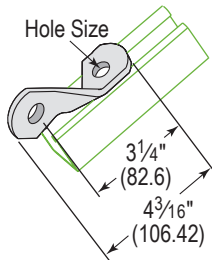
Note: Supplied pre-assembled with grade 5 bolt and nylock nut



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

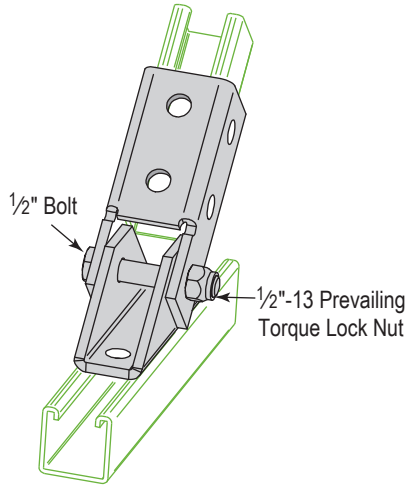
Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1 7/8" [47.6] centers unless specified.

# Angle Fittings

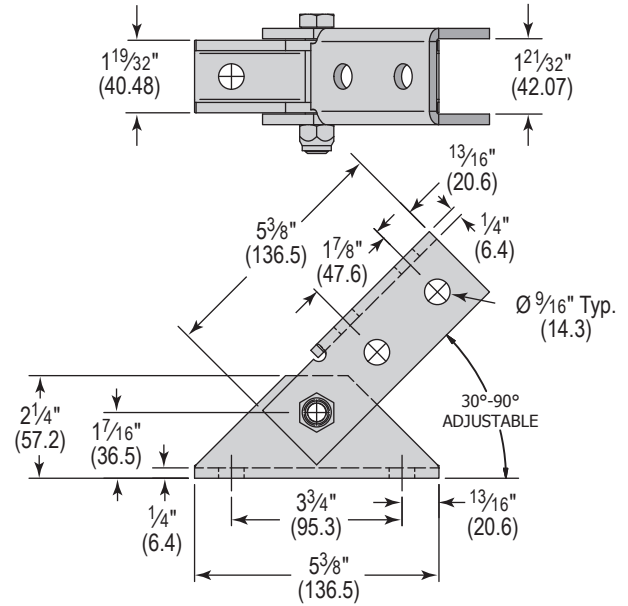
Standard finish is Zinc Electroplate (EG)  
Product finishes and materials is on page 4

## L67

Adjustable Brace Fitting

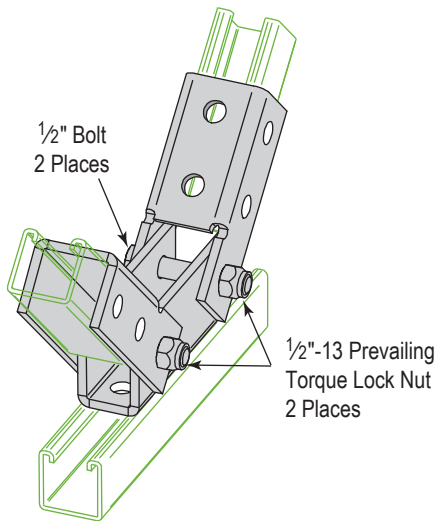


Catalog Number: L67 0000EG  
Weight: 3.07 Lbs.

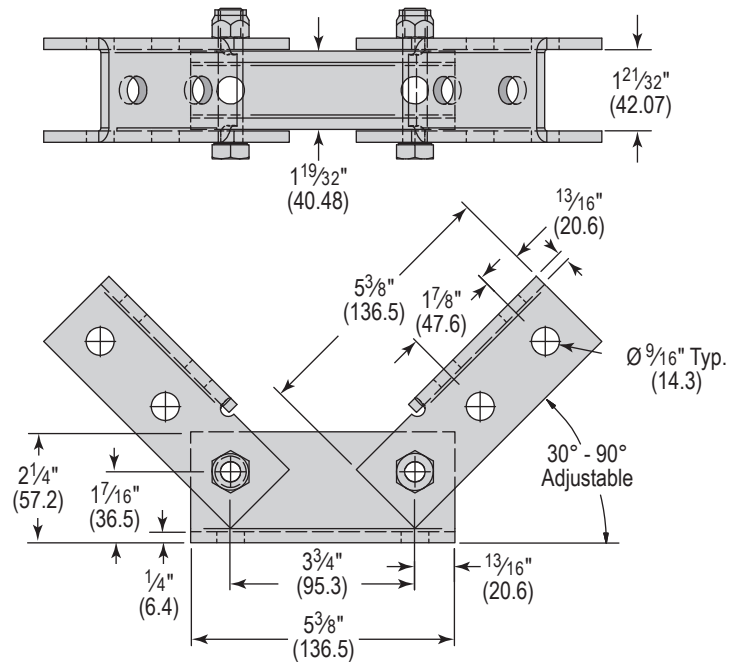


## L68

Double Adjustable Brace Fitting



Catalog Number: L68 0000EG  
Weight: 4.97 Lbs.

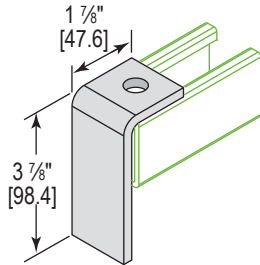


General Info
Channel Nuts
Hardware
Strut Clamps
Conduit & Tubing Clamps
Flat Fittings
Angle Fittings
Beam Clamps
Brackets
Concrete Inserts & Electrical
Post Bases
Rollers
U-Fittings
Wing Fittings
Z-Fittings
Technical Data
Index

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.

## L70

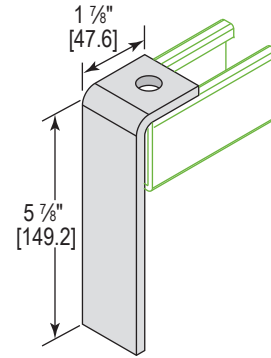
1 Hole  $3\frac{7}{8}$ " Corner Angle



Catalog Number: L70 0000EG  
Weight: 0.56 Lbs.

## L71

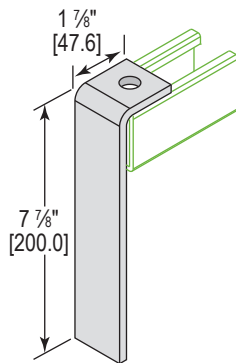
1 Hole  $5\frac{7}{8}$ " Corner Angle



Catalog Number: L71 0000EG  
Weight: 0.85 Lbs.

## L72

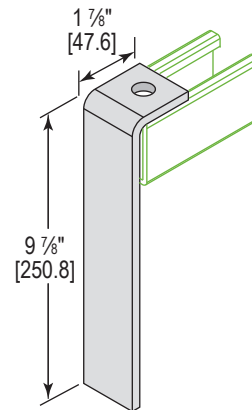
1 Hole  $7\frac{7}{8}$ " Corner Angle



Catalog Number: L72 0000EG  
Weight: 1.0 Lbs.

## L73

1 Hole  $9\frac{7}{8}$ " Corner Angle



Catalog Number: L73 0000EG  
Weight: 1.21 Lbs.

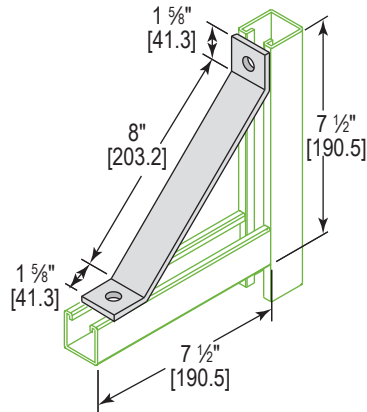
# Angle Fittings

Standard finish is Zinc Electroplate (EG)

Product finishes and materials is on page 4 • Note: May be available with 7/16" holes

## L80

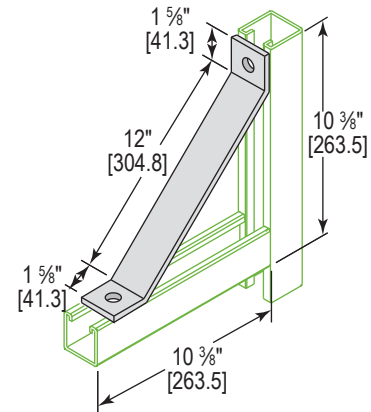
8" Angle Brace



Catalog Number: L80 0000EG  
Weight: 1.19 Lbs.

## L81

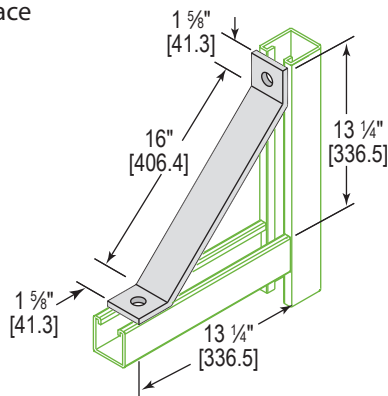
12" Angle Brace



Catalog Number: L81 0000EG  
Weight: 1.65 Lbs.

## L82

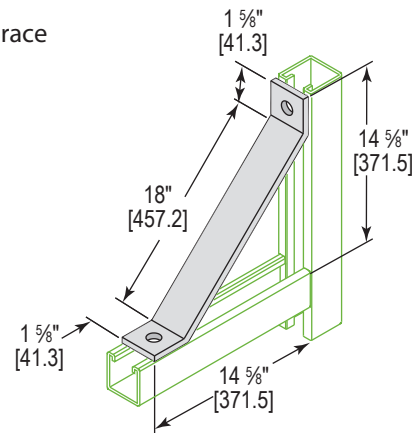
16" Angle Brace



Catalog Number L82 0000EG  
Weight: 2.18 Lbs.

## L83

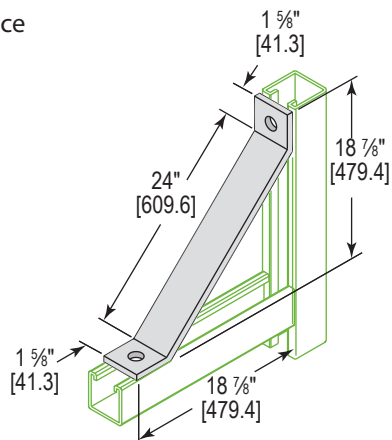
18" Angle Brace



Catalog Number L83 0000EG  
Weight: 2.34 Lbs.

## L84

24" Angle Brace



Catalog Number L84 0000EG  
Weight: 3.03 Lbs.

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Wing Fittings
Z-Fittings
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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.

# Beam Clamps

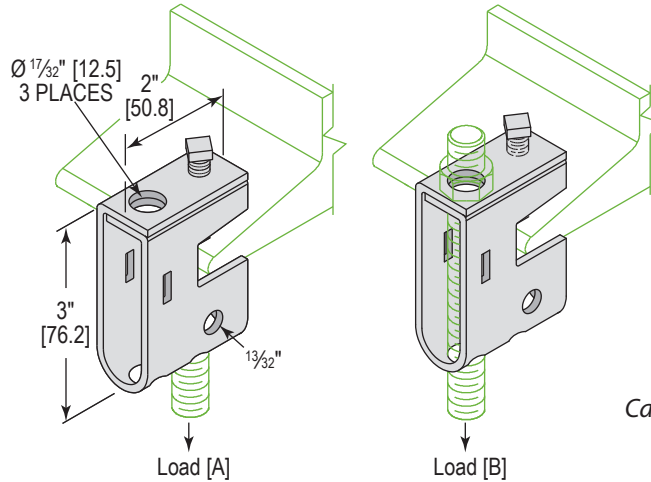
## BC10

Beam Clamp Formed Steel

Maximum rod size 1/2" [12]

Maximum flange thickness 3/4" [19]

If swivel is required use BC12 Swivel Nut.



Position	Design Load	
	lbs	kN
A	500	2.22
B	300	1.33

Catalog Number: BC10000EG  
 Weight: 0.42 Lbs.

## BC11

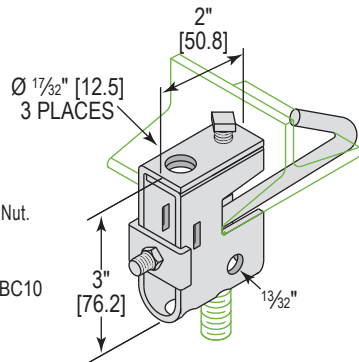
Beam Clamp Formed Steel with J-Hook

Maximum rod size 1/2" [12]

Maximum flange thickness 3/4" [19]

If swivel is required use BC12 Swivel Nut.

Design loads are the same as model BC10



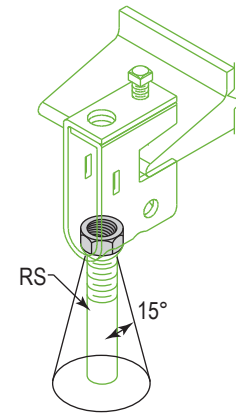
Catalog Number	Wt. lbs	W	
		in	mm
BC110600EG	0.78	3 thru 6	76 thru 152
BC110900EG	0.83	6 thru 9	152 thru 228
BC111200EG	0.88	9 thru 12	228 thru 305

## BC12

Swivel Nut for use with BC10, BC11 and BC14

Provides 15° of swivel in any direction.

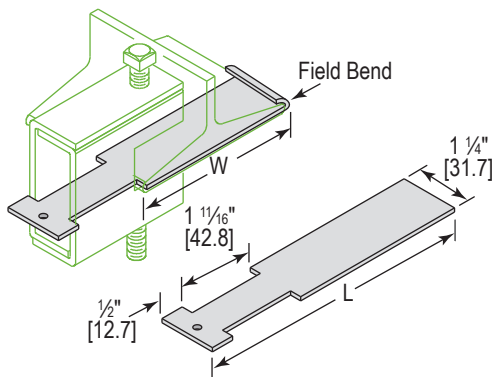
Specify Rod Size (RS) when ordering



Catalog Number	Wt. lbs	RS
BC120025EG	0.007	1/4-20
BC120037EG	0.015	3/8-16
BC120050EG	0.036	1/2-13

## BC13

Beam Clamp Anchor Strap



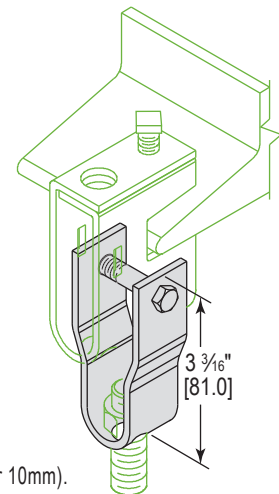
Catalog Number	Wt. lbs	L		W * (max)	
		in	mm	in	mm
BC130600EG	0.23	9	228	6	152
BC130900EG	0.30	12	305	9	228
BC131200EG	0.38	15	381	12	305
BC131500EG	0.45	18	457	15	381

\* For beam flange greater than 3/4" [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 1/4", 3/8" or 1/2" rod (6mm, 8mm or 10mm).

If swivel is required use BC12 Swivel Nut.

Catalog Number: BC14000EG  
 Weight: 0.3 Lbs.

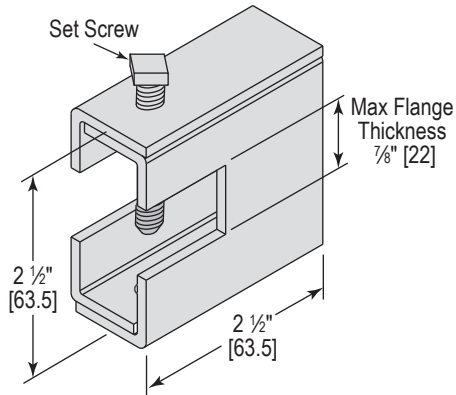
# Beam Clamps

Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

## BC15

Formed Steel Beam Clamp

Maximum flange thickness  $\frac{7}{8}$ " [22]

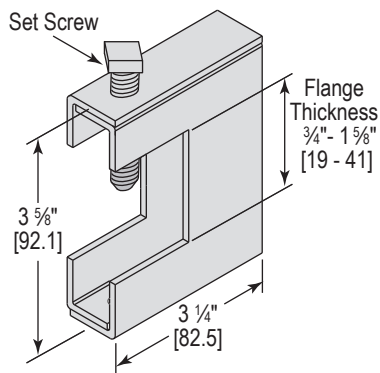


Catalog Number	Wt. lbs	Rod Size	Set Screw	Thickness	Design Load	
					lbs	kN
BC150025EG	0.67	$\frac{1}{4}$ "	$\frac{3}{8}$ " - 16	$\frac{1}{8}$ "	650	2.89
BC150031EG	0.67	$\frac{5}{16}$ "	$\frac{3}{8}$ " - 16	$\frac{1}{8}$ "	650	2.89
BC150037EG	0.67	$\frac{3}{8}$ "	$\frac{3}{8}$ " - 16	$\frac{1}{8}$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

## BC17

Formed Steel Beam Clamp

For  $\frac{3}{4}$ " through  $1\frac{5}{8}$ " [19 through 41] flange thickness

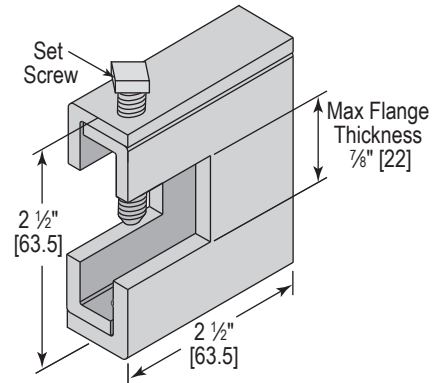


Catalog Number	Wt. lbs	Rod Size	Set Screw	Thickness	Design Load	
					lbs	kN
BC170025EG	1.09	$\frac{1}{4}$ "	$\frac{3}{8}$ " - 16	$\frac{1}{8}$ "	800	3.56
BC170031EG	1.09	$\frac{5}{16}$ "	$\frac{3}{8}$ " - 16	$\frac{1}{8}$ "	800	3.56
BC170037EG	1.09	$\frac{3}{8}$ "	$\frac{3}{8}$ " - 16	$\frac{1}{8}$ "	800	3.56
BC170050EG	1.56	$\frac{1}{2}$ "	$\frac{1}{2}$ " - 13	$\frac{3}{16}$ "	1,300	5.78

## BC16

Formed Steel **Heavy Duty** Beam Clamp

Maximum flange thickness  $\frac{7}{8}$ " [22]

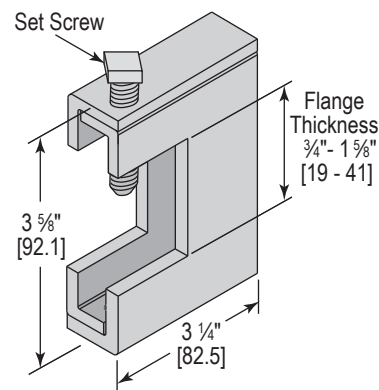


Catalog Number	Wt. lbs	Rod Size	Set Screw	Thickness	Design Load	
					lbs	kN
BC160037EG	1.00	$\frac{3}{8}$ "	$\frac{1}{2}$ " - 13	$\frac{3}{16}$ "	1,100	4.89
BC160050EG	1.30	$\frac{1}{2}$ "	$\frac{1}{2}$ " - 13	$\frac{1}{4}$ "	1,600	7.12
BC160062EG	1.60	$\frac{5}{8}$ "	$\frac{5}{8}$ " - 11	$\frac{5}{16}$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

## BC18

Formed Steel **Heavy Duty** Beam Clamp

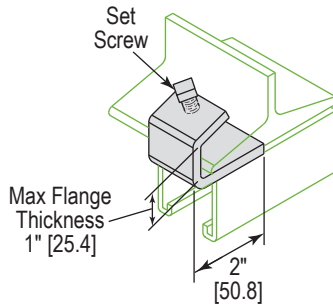
For  $\frac{3}{4}$ " through  $1\frac{5}{8}$ " [19 through 41] flange thickness



Catalog Number	Wt. lbs	Rod Size	Set Screw	Thickness	Design Load	
					lbs	kN
BC180037EG	1.56	$\frac{3}{8}$ "	$\frac{1}{2}$ " - 13	$\frac{3}{16}$ "	1,300	5.78
BC180050EG	2.01	$\frac{1}{2}$ "	$\frac{1}{2}$ " - 13	$\frac{1}{4}$ "	1,900	8.45
BC180062EG	2.51	$\frac{5}{8}$ "	$\frac{5}{8}$ " - 11	$\frac{5}{16}$ "	2,800	12.45

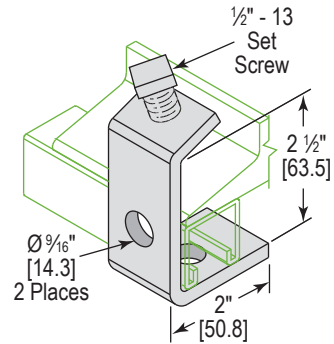
## BC20, BC21

Strut to Beam Clamp C-Type



## BC22

Strut to Beam Clamp C-Type, Parallel  
 $\frac{3}{8}$ " [9.5] material thickness



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

Catalog Number	Wt. lbs	Set Screw	Material Thickness	Design Load When Used in Pairs
BC20000EG	.39	$\frac{3}{8}$ -16	$\frac{1}{4}$ " [6.3]	550 Lbs [2.45 kN]
BC21000EG	.62	$\frac{1}{2}$ -13	$\frac{3}{8}$ " [9.5]	1000 Lbs [4.45 kN]

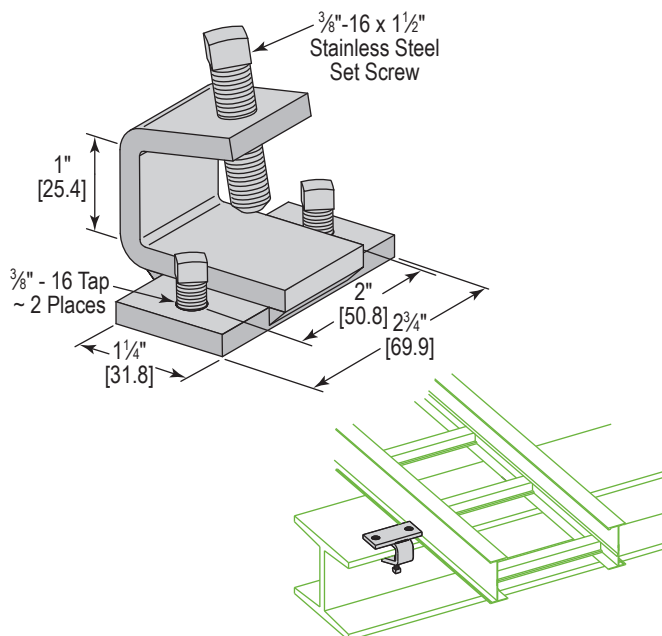
Catalog Number: BC22000EG  
Weight: 0.91 Lbs.

## BC23

Cable Tray Clamp

Standard finish is hot dip galvanized

Also available in electro-galvanized finish



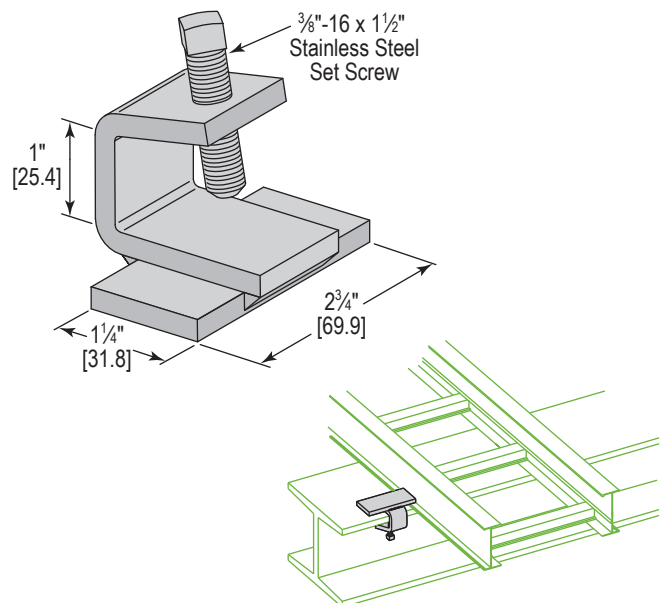
Catalog Number: BC230000HD  
Weight: 0.62 Lbs.

## BC24

Cable Tray Guide

Standard finish is hot dip galvanized

Also available in electro-galvanized finish



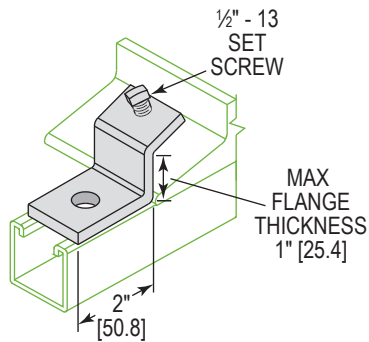
Catalog Number: BC240000HD  
Weight: 0.62 Lbs.

# Beam Clamps

Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

## BC30

Strut to Beam Clamp Z-Type  
 $\frac{3}{8}$ " [9.5] material thickness

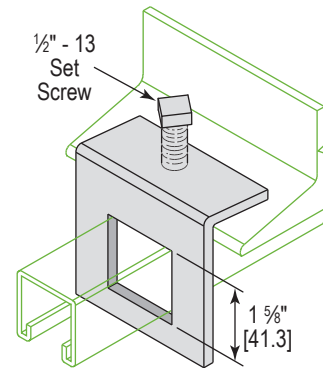


Design load 600 Lbs [2.67 kN] when used in pairs  
 Clamp requires  $\frac{1}{2}$ "-13 HCS and  $\frac{1}{2}$ " channel nut, order separately

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.

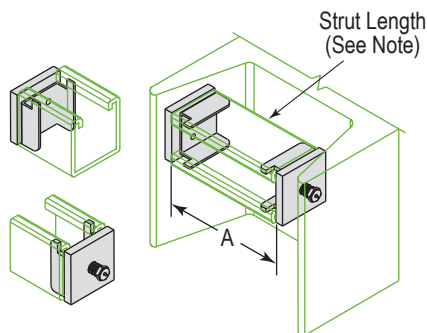
## BC50

Strut to Beam Spreader Caps

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

Cut strut length  $1\frac{1}{4}$ " to  $1\frac{5}{8}$ " shorter than the average distance  
 between flanges (Dimension "A")

Design load 500 Lbs [2.22 kN] when used as a set



Catalog Number: BC500000EG  
 Weight: 0.54 Lbs.

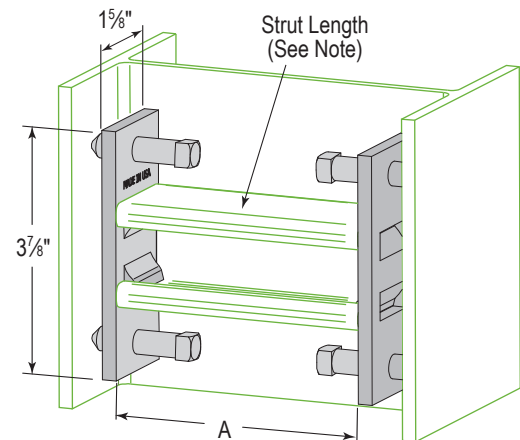
## BC51

Strut to Beam Spreader Caps

Includes 2 adjustable caps.  
 For use with 12 gauge strut

Cut strut length  $1\frac{1}{4}$ " to  $1\frac{5}{8}$ " shorter than the average distance  
 between flanges (Dimension "A")

Design load 1000 Lbs [2.22 kN] when used as a set



Catalog Number: BC510000EG  
 Weight: 1.40 Lbs.

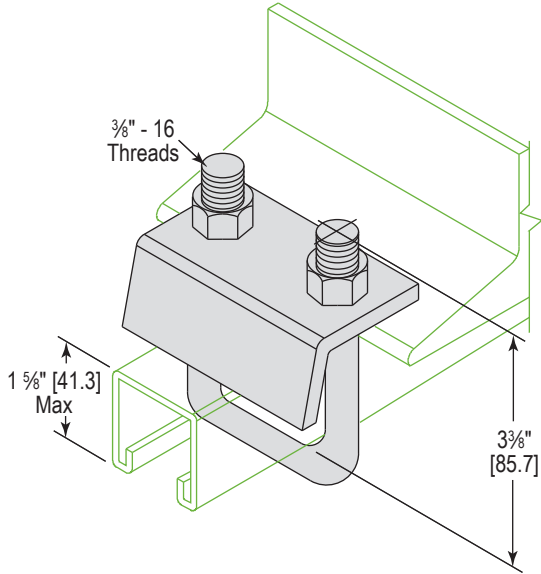
Material is  $1\frac{5}{8}$ " [41.3] wide x  $\frac{1}{4}$ " [6.3] thick unless specified. Holes are  $\frac{9}{16}$ " (14.3) diameter,  $\frac{13}{16}$ " [20.6] center to edge on  $1\frac{1}{8}$ " [47.6] centers unless specified.

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# Beam Clamps

## BC60

Strut to Beam Clamp with Square U-Bolt  
 For  $1\frac{3}{16}$ " &  $1\frac{5}{8}$ " Channel  
 For use with flanges up to  $\frac{3}{4}$ " [19.1] thick

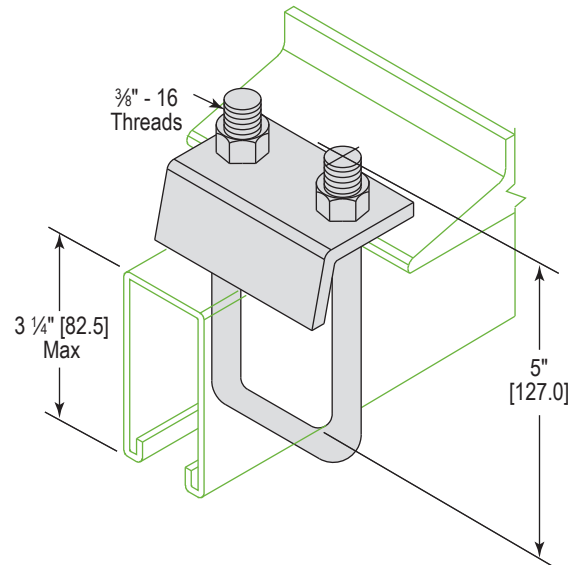


Design load 1200 Lbs [5.34 kN] when used in pairs

Catalog Number: BC600000EG  
 Weight: 0.72 Lbs.

## BC61

Strut to Beam Clamp with Square U-Bolt  
 For  $2\frac{7}{16}$ " &  $3\frac{1}{4}$ " Channel  
 For use with flanges up to  $\frac{3}{4}$ " [19.1] thick

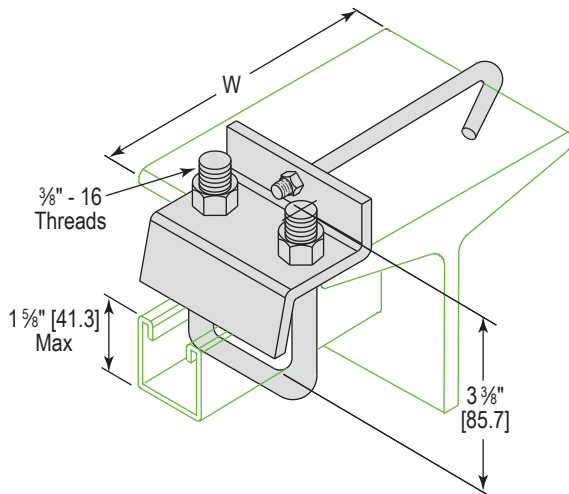


Design load 1200 Lbs [5.34 kN] when used in pairs

Catalog Number: BC610000EG  
 Weight: 0.79 Lbs.

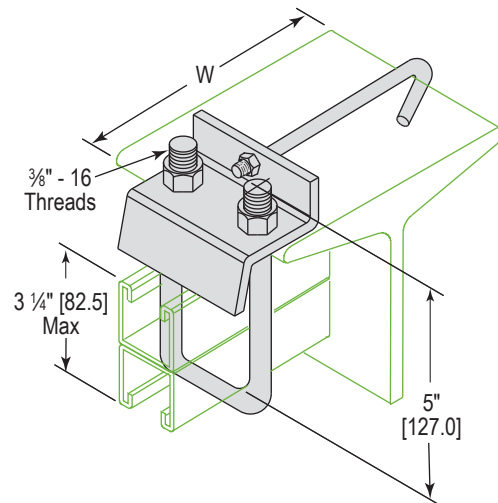
## BC62

Strut to Beam Clamp with Square U-Bolt and J-Hook  
 For  $1\frac{3}{16}$ " &  $1\frac{5}{8}$ " channel  
 For use with flanges up to  $\frac{3}{4}$ " [19.1] thick



## BC63

Strut to Beam Clamp with Square U-Bolt and J-Hook  
 For  $2\frac{7}{16}$ " &  $3\frac{1}{4}$ " channel  
 For use with flanges up to  $\frac{3}{4}$ " [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

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

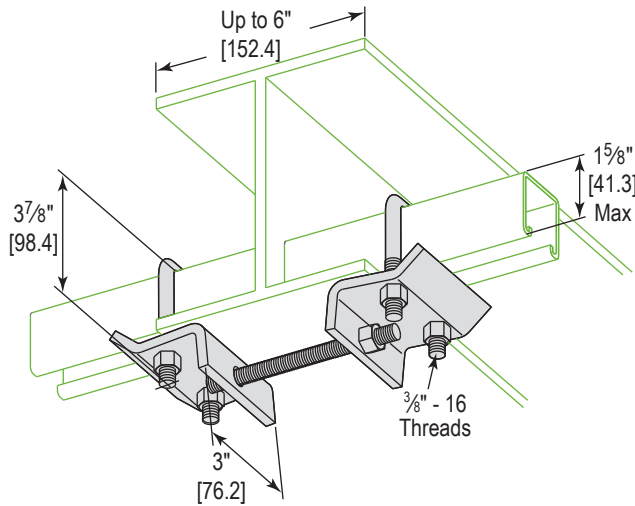
Material is  $1\frac{5}{16}$ " [41.3] wide x  $\frac{1}{4}$ " [6.3] thick unless specified. Holes are  $\frac{9}{16}$ " (14.3) diameter,  $1\frac{3}{16}$ " [20.6] center to edge on  $1\frac{1}{8}$ " [47.6] centers unless specified.

# Beam Clamps

Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

## BC64

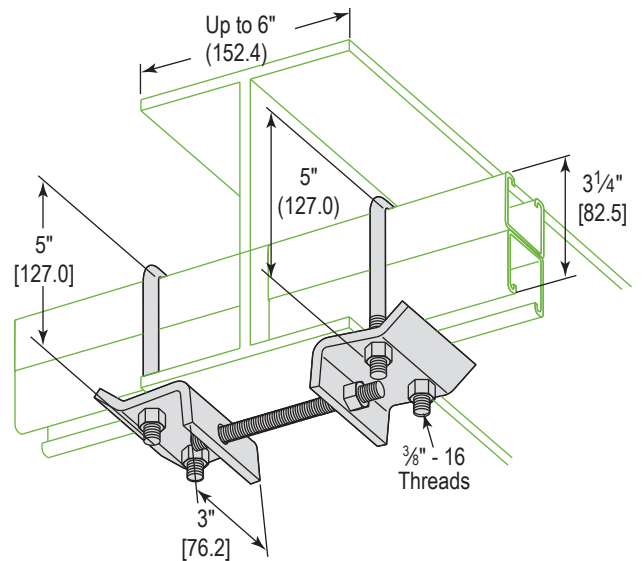
Strut to Beam Clamp with Square U-Bolts & Connecting Stud  
 Double for  $1\frac{3}{16}$ " &  $1\frac{5}{8}$ " channel  
 For use with flanges up to  $\frac{3}{4}$ " [19.1] thick



Catalog Number: BC641200EG  
 Weight: 2.8 Lbs.

## BC65

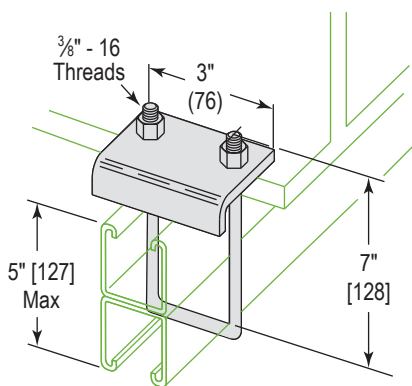
Strut to Beam Clamp with Square U-Bolts & Connecting Stud  
 Double for  $2\frac{7}{16}$ " &  $3\frac{1}{4}$ " Channel  
 For use with flanges up to  $\frac{3}{4}$ " [19.1] thick



Catalog Number: BC651200EG  
 Weight: 3.0 Lbs.

## BC66

Strut to Beam Clamp with Square U-Bolt For 5" maximum  
 For use with flanges up to  $\frac{3}{4}$ " [19.1] thick

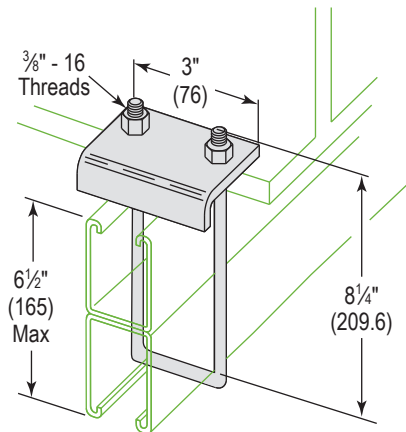


Design load 1200 Lbs [5.34 kN] when used in pairs

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  $\frac{3}{4}$ " [19.1] thick



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

Catalog Number: BC680000EG  
 Weight: 1.26 Lbs.

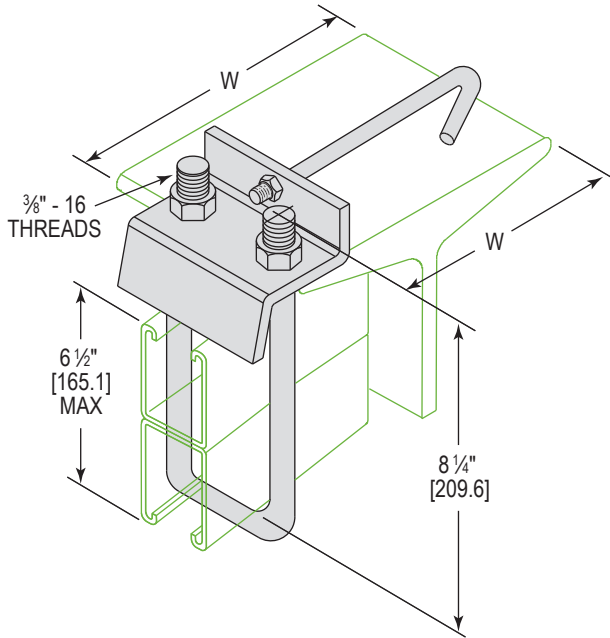
Material is  $1\frac{5}{8}$ " [41.3] wide x  $\frac{1}{4}$ " [6.3] thick unless specified. Holes are  $\frac{9}{16}$ " (14.3) diameter,  $1\frac{3}{16}$ " [20.6] center to edge on  $1\frac{1}{8}$ " [47.6] centers unless specified.

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# Beam Clamps

## BC69

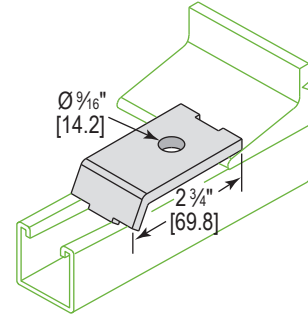
Strut to Beam Clamp with Square U-Bolt and J-Hook  
For 3¼" Back-to-Back channel  
For use with flanges up to ¾" [19.1] thick



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

## BC70

Strut to Beam Clamp Notched Type



Material is 1½" [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

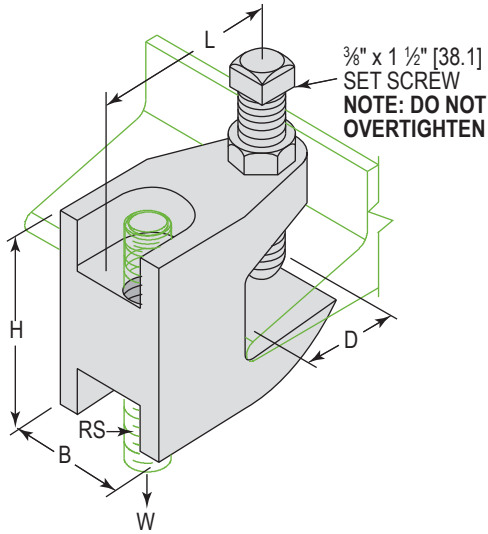
Catalog Number: BC700000EG  
Weight: 0.29 Lbs.

# Beam Clamps

Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

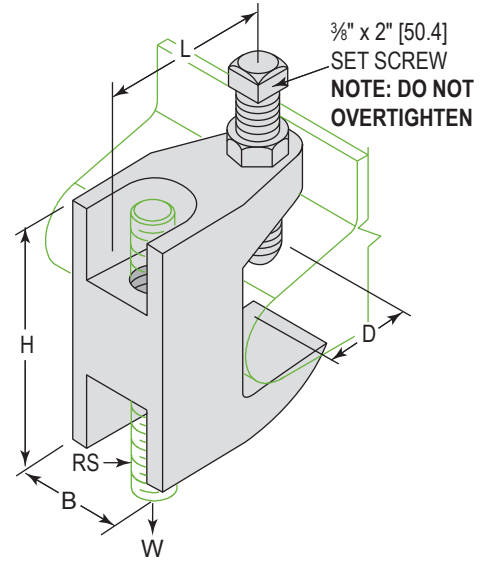
## BC80

Malleable Iron Universal Beam Clamp  
Maximum flange thickness of  $\frac{5}{8}$ "



## BC81

Wide Mouth Malleable Iron Universal Beam Clamp  
Maximum flange thickness of  $1\frac{1}{16}$ "



Catalog Number	Rod Size (RS)	Max Load W		Max Pipe Size		Wt. Lbs.
		lbs	kN	in	mm	
BC800037PL	$\frac{3}{8}$ " - 16	350	1.56	4	100	0.32
BC800037EG	$\frac{3}{8}$ " - 16	350	1.56	4	100	0.32
BC800050PL	$\frac{1}{2}$ " - 13	470	2.09	4	100	0.32
BC800050EG	$\frac{1}{2}$ " - 13	470	2.09	4	100	0.32
BC800062PL	$\frac{5}{8}$ " - 11	550	2.45	5	125	0.56
BC800062EG	$\frac{5}{8}$ " - 11	550	2.45	5	125	0.56
BC800075PL	$\frac{3}{4}$ " - 10	700	3.11	6	150	0.75
BC800075EG	$\frac{3}{4}$ " - 10	700	3.11	6	150	0.75

Catalog Number	B		L		H		D	
	in	mm	in	mm	in	mm	in	mm
BC800037PL	$\frac{7}{8}$	22.2	$1-\frac{5}{16}$	33.3	$1-\frac{1}{2}$	38.1	$\frac{1}{2}$	12.7
BC800037EG	$\frac{7}{8}$	22.2	$1-\frac{5}{16}$	33.3	$1-\frac{1}{2}$	38.1	$\frac{1}{2}$	12.7
BC800050PL	$\frac{7}{8}$	22.2	$1-\frac{5}{16}$	33.3	$1-\frac{1}{2}$	38.1	$\frac{1}{2}$	12.7
BC800050EG	$\frac{7}{8}$	22.2	$1-\frac{5}{16}$	33.3	$1-\frac{1}{2}$	38.1	$\frac{1}{2}$	12.7
BC800062PL	$1\frac{1}{8}$	28.6	$1-\frac{3}{4}$	44.5	$1-\frac{3}{4}$	44.5	$\frac{5}{8}$	15.9
BC800062EG	$1\frac{1}{8}$	28.6	$1-\frac{3}{4}$	44.5	$1-\frac{3}{4}$	44.5	$\frac{5}{8}$	15.9
BC800075PL	$1\frac{3}{8}$	34.9	$1-\frac{7}{8}$	47.6	$1-\frac{7}{8}$	47.6	$\frac{5}{8}$	15.9
BC800075EG	$1\frac{3}{8}$	34.9	$1-\frac{7}{8}$	47.6	$1-\frac{7}{8}$	47.6	$\frac{5}{8}$	15.9

Catalog Number	Rod Size (RS)	Max Load W		Max Pipe Size		Wt. Lbs.
		lbs	kN	in	mm	
BC810037PL	$\frac{3}{8}$ " - 16	400	1.78	4	100	0.41
BC810037EG	$\frac{3}{8}$ " - 16	400	1.78	4	100	0.41
BC810050PL	$\frac{1}{2}$ " - 13	500	2.22	4	100	0.41
BC810050EG	$\frac{1}{2}$ " - 13	500	2.22	4	100	0.41
BC810062PL	$\frac{5}{8}$ " - 11	500	2.22	4	100	0.75
BC810062EG	$\frac{5}{8}$ " - 11	500	2.22	4	100	0.75

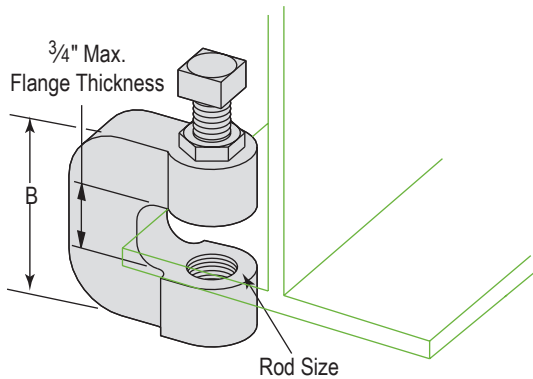
Catalog Number	B		L		H		D	
	in	mm	in	mm	in	mm	in	mm
BC810037PL	$\frac{7}{8}$	22.2	$1-\frac{3}{8}$	34.9	2	50.8	$\frac{1}{2}$	12.7
BC810037EG	$\frac{7}{8}$	22.2	$1-\frac{3}{8}$	34.9	2	50.8	$\frac{1}{2}$	12.7
BC810050PL	$\frac{7}{8}$	22.2	$1-\frac{3}{8}$	34.9	2	50.8	$\frac{1}{2}$	12.7
BC810050EG	$\frac{7}{8}$	22.2	$1-\frac{3}{8}$	34.9	2	50.8	$\frac{1}{2}$	12.7
BC810062PL	$1\frac{1}{4}$	31.8	$1-\frac{7}{8}$	47.6	$2-\frac{3}{8}$	60.3	$\frac{5}{8}$	15.9
BC810062EG	$1\frac{1}{4}$	31.8	$1-\frac{7}{8}$	47.6	$2-\frac{3}{8}$	60.3	$\frac{5}{8}$	15.9

Material is  $1\frac{5}{8}$ " [41.3] wide x  $\frac{1}{4}$ " [6.3] thick unless specified. Holes are  $\frac{9}{16}$ " (1.3) diameter,  $\frac{13}{16}$ " [20.6] center to edge on  $1\frac{7}{8}$ " [47.6] centers unless specified.

# Beam Clamps

## BC85

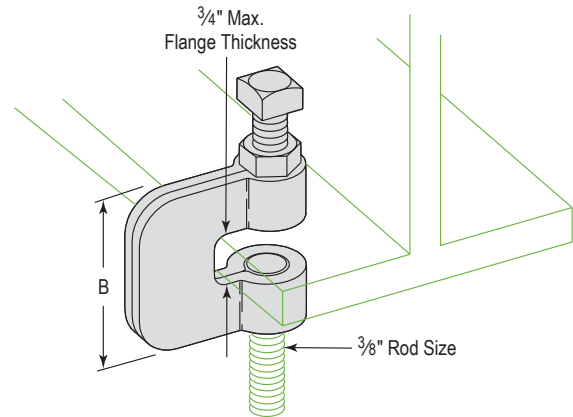
Malleable Iron C-clamp with lock nut



Catalog No. – Plain	Catalog No. – EG	Rod Size	Dim. "B"	Design Load	Wt. lbs
BC850037PL	BC850037EG	3/8"-16	1 3/4"	400 Lbs (1.8 kN)	0.38
BC850050PL	BC850050EG	1/2"-13	1 3/4"	400 Lbs (1.8 kN)	0.52
BC850062PL	BC850062EG	5/8"-11	2"	450 Lbs (2.0 kN)	0.68

## BC86

Pressed Steel C-Clamp with Lock Nut

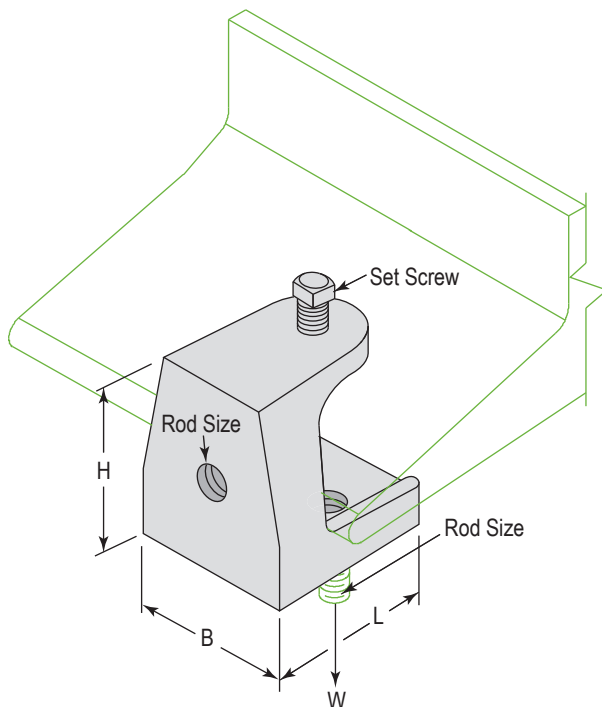


Catalog No. – Plain	Catalog No. – EG	Dim. "B"	Design Load	Wt. lbs
BC860037PL	BC860037EG	1 3/4"	330 Lbs (1.5 kN)	0.35

## BC90

Malleable Iron Rod Support Beam Clamp

Maximum flange thickness of 1/2"



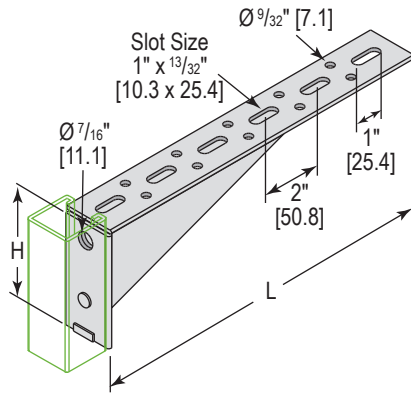
Catalog Number	Wt. lbs	Rod Size	Set Screw Size	Max Load (W)	
				lbs	kN
BC900025EG	0.20	1/4"-20	5/16"-18	335	1.49
BC900037EG	0.67	3/8"-16	1/2"-13	525	2.34
BC900050EG	1.22	1/2"-13	1/2"-13	750	3.34

Catalog Number	B		L		H	
	in	mm	in	mm	in	mm
BC900025EG	1 3/16	30.2	1 3/8	34.9	1 3/8	34.9
BC900037EG	2 1/16	52.4	1 7/8	47.6	1 3/4	44.4
BC900050EG	2 1/2	63.5	2 3/8	60.3	2 3/16	55.6



## BR8R

Slotted Shelf Bracket (Right Hand)

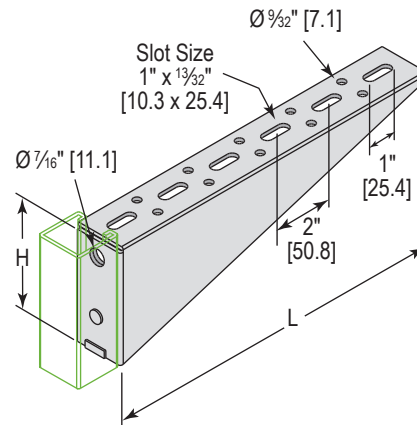


Uniform load rating 250 lbs. [1.11kN] when mounted on 12 gauge channel

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

## BR8L

Slotted Shelf Bracket (Left Hand)



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

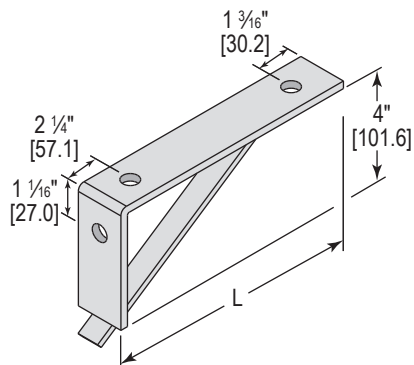
Catalog Number	Wt. lbs	L		H	
		in	mm	in	mm
BR8L0600EG	0.58	6	152.4	2 <sup>7</sup> / <sub>8</sub>	73.0
BR8L0800EG	0.83	8	203.2	2 <sup>7</sup> / <sub>8</sub>	73.0
BR8L1000EG	1.14	10	254.0	2 <sup>7</sup> / <sub>8</sub>	73.0
BR8L1200EG	1.49	12	304.8	3 <sup>7</sup> / <sub>16</sub>	87.3
BR8L1400EG	1.74	14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

# Brackets

Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

## BR20

Bracket 3 Hole

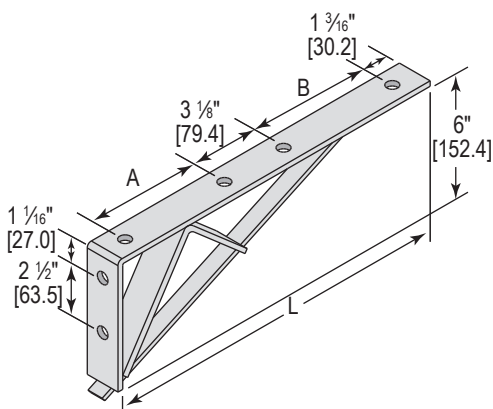


Catalog Number	Wt. lbs	L		Uniform Load *	
		in	mm	lbs	kN
BR200850EG	1.68	8½	215.9	850	3.78
BR201050EG	2.02	10½	266.7	850	3.78

\* When mounted on 12 gauge channel

## BR22

Bracket with Brace 6 Hole



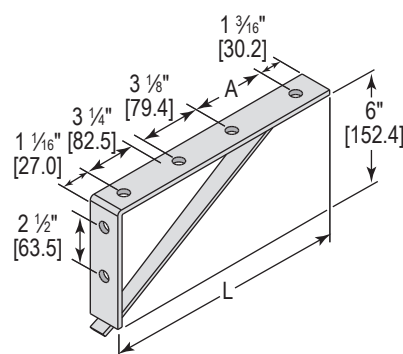
Catalog Number	Wt. lbs	L		A		B		Uniform Load *	
		in	mm	in	mm	in	mm	lbs	kN
BR221650EG	3.81	16½	419.1	5¼	133.3	5¾	146.0	1200	5.34
BR221850EG	4.16	18½	469.9	5¼	133.3	7¾	196.8	1100	4.89
BR222050EG	4.61	20½	520.7	7¼	184.1	7¾	196.8	900	4.00

\* When mounted on 12 gauge channel

Material is 1½" [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 1/8" [47.6] centers unless specified.

## BR21

Bracket 6 Hole

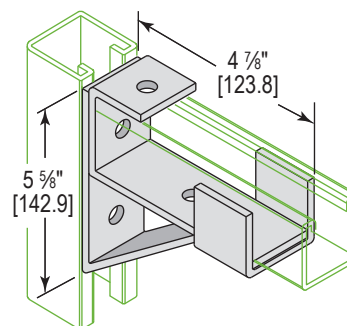


Catalog Number	Wt. lbs	L		A		Uniform Load *	
		in	mm	in	mm	lbs	kN
BR211250EG	2.58	12½	317.5	3¾	95.2	900	4.00
BR211450EG	2.92	14½	368.3	5¾	146.0	900	4.00

\* When mounted on 12 gauge channel

## BR30

Bracket for 1½" Channel



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

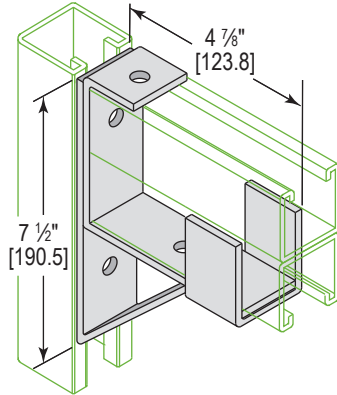
\* When mounted on 12 gauge channel  
Max load applies to bracket only, not the strength of the strut arm.

Catalog Number: BR300000EG  
Weight: 2.46 Lbs.

- General Info
- Channel Nuts
- Hardware
- Strut Clamps
- Conduit & Tubing Clamps
- Flat Fittings
- Angle Fittings
- Beam Clamps
- Brackets**
- Concrete Inserts & Electrical
- Post Bases
- Rollers
- U-Fittings
- Wing Fittings
- Z-Fittings
- Technical Data
- Index

## BR31

Bracket for 3 1/4" Channel



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

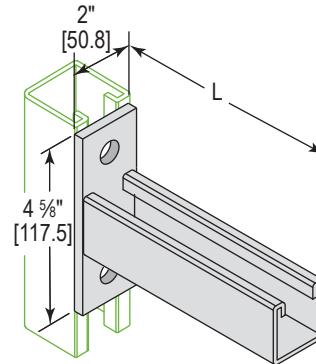
\* When mounted on 12 gauge channel

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

Catalog Number: BR310000EG  
 Weight: 2.84 Lbs.

## BR40

Bracket Channel 1 5/8" Channel 2 Hole

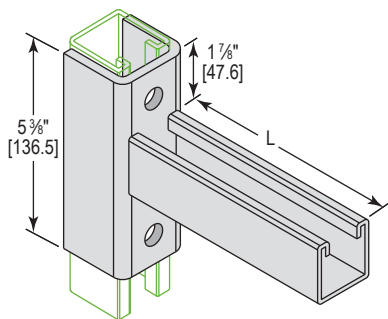


Catalog Number	Wt. Lbs.	L		Uniform Load *	
		in	mm	lbs	kN
BR400600EG	1.85	6	152.4	1250	5.56
BR400900EG	2.31	9	228.6	1000	4.45
BR401200EG	2.36	12	304.8	750	3.34
BR401800EG	3.28	18	457.2	500	2.22
BR402400EG	4.49	24	609.6	350	1.56

\* When mounted on 12 gauge channel

## BR41

Bracket Channel Wrap Around 1 5/8" Channel

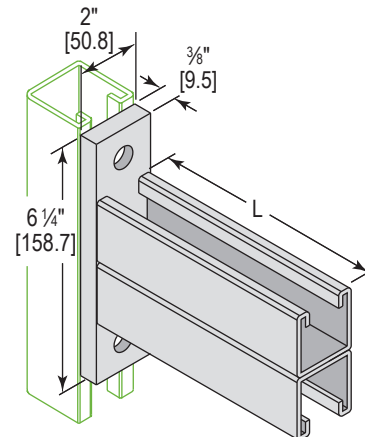


Catalog Number	Wt. lbs	L		Uniform Load *	
		in	mm	lbs	kN
BR410600EG	1.85	6	152.4	1250	5.56
BR411200EG	2.86	12	304.8	1000	4.45
BR411800EG	4.31	18	457.2	750	3.34
BR412400EG	5.14	24	609.6	500	2.22

\* When mounted on 12 gauge channel

## BR42

Bracket Double 1 5/8" 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

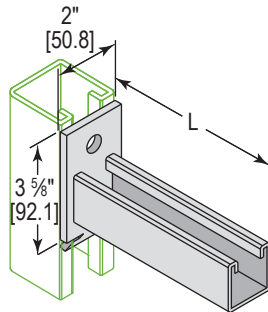
Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1 7/8" [47.6] centers unless specified.

# Brackets

Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

## BR43

Bracket Channel Notched, Up

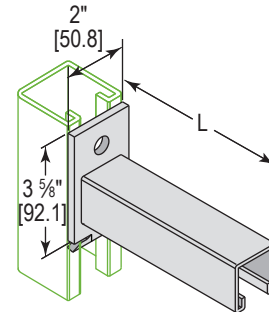


Catalog Number	Wt. lbs	L		Uniform Load *	
		in	mm	lbs	kN
BR430600EG	1.51	6	152.4	1250	5.56
BR430900EG	1.97	9	228.6	1000	4.45
BR431200EG	2.55	12	304.8	750	3.34
BR431800EG	3.51	18	457.2	500	2.22
BR432400EG	4.28	24	609.6	350	1.56

\* When mounted on 12 gauge channel

## BR44

Bracket Channel Notched, Down

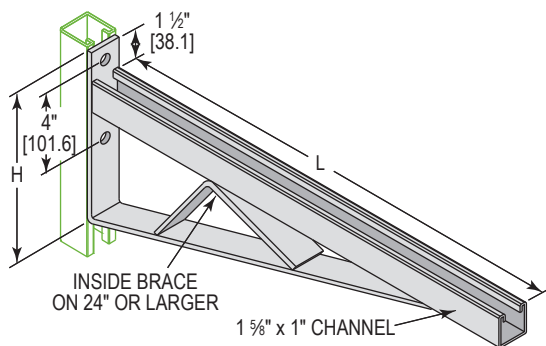


Catalog Number	Wt. lbs	L		Uniform Load *	
		in	mm	lbs	kN
BR440600EG	1.51	6	152.4	1250	5.56
BR440900EG	1.97	9	228.6	1000	4.45
BR441200EG	2.55	12	304.8	750	3.34
BR441800EG	3.51	18	457.2	500	2.22
BR442400EG	4.28	24	609.6	350	1.56

\* When mounted on 12 gauge channel

## BR45

Bracket Channel

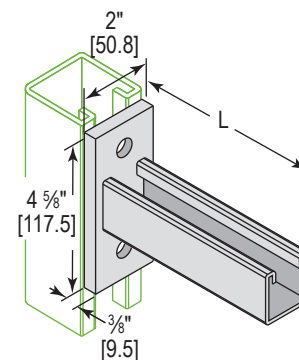


Catalog Number	Wt. lbs	L		H		Uniform Load *	
		in	mm	in	mm	lbs	kN
BR451200EG	3.71	12	304.8	8 <sup>3</sup> / <sub>4</sub>	222.2	1450	6.45
BR451800EG	4.88	18	457.2	8 <sup>3</sup> / <sub>4</sub>	222.2	900	4.00
BR452400EG	7.41	24	609.6	8 <sup>3</sup> / <sub>4</sub>	222.2	900	4.00
BR453000EG	9.88	30	762.0	11 <sup>1</sup> / <sub>4</sub>	285.7	800	3.56
BR453600EG	10.83	36	914.4	11 <sup>1</sup> / <sub>4</sub>	285.7	750	3.34

\* When mounted on 12 gauge channel

## BR46

Bracket Channel 1<sup>5</sup>/<sub>8</sub>" Channel 2 Hole Heavy



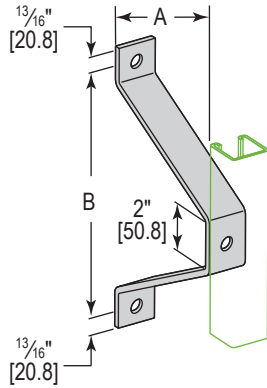
Catalog Number	Wt. lbs	L		Uniform Load *	
		in	mm	lbs	kN
BR460600EG	1.850	6	152.4	1250	5.56
BR460900EG	2.510	9	228.6	1000	4.45
BR461200EG	3.380	12	304.8	750	3.34
BR461800EG	4.010	18	457.2	500	2.22
BR462400EG	5.090	24	609.6	350	1.56

\* When mounted on 12 gauge channel

Material is 1<sup>5</sup>/<sub>8</sub>" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 3/16" (14.3) diameter, 1<sup>3</sup>/<sub>16</sub>" [20.6] center to edge on 1<sup>7</sup>/<sub>8</sub>" [47.6] centers unless specified.

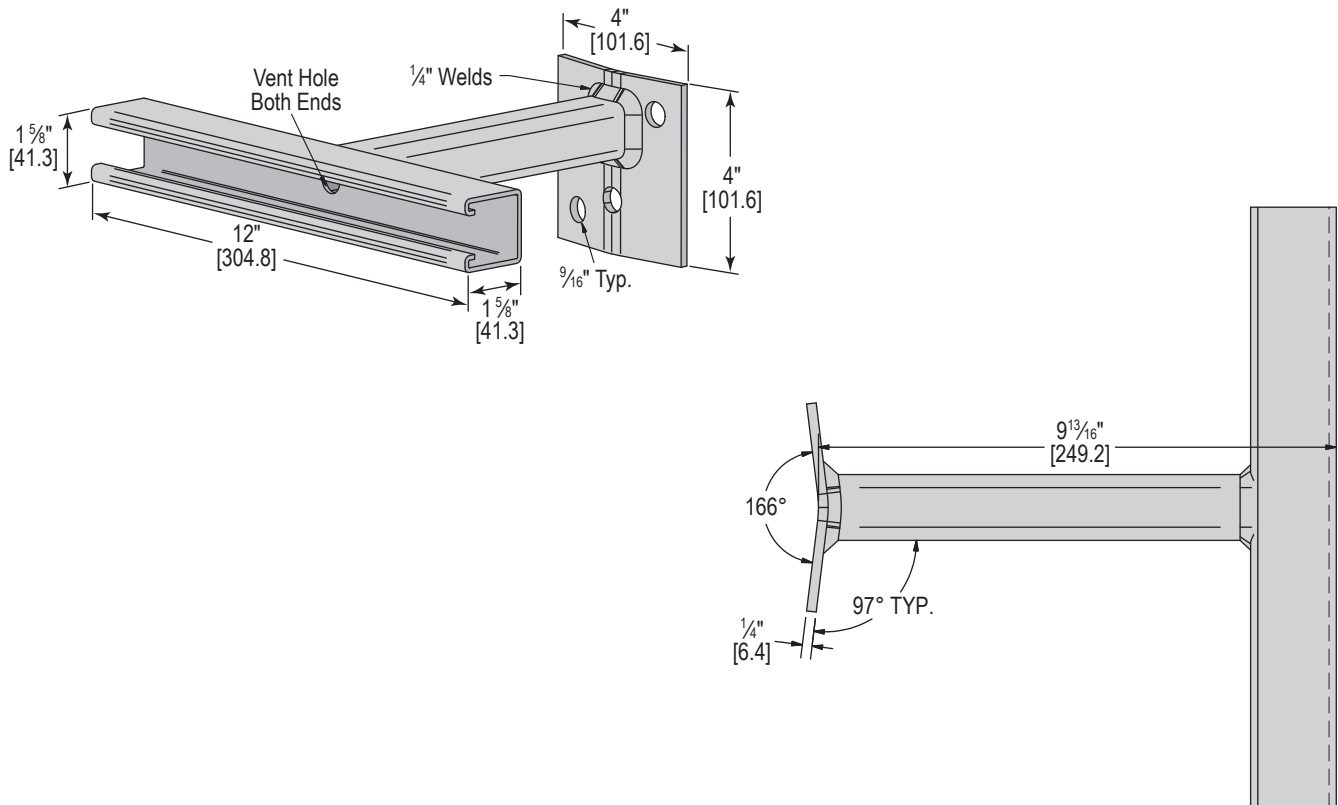
- General Info
- Channel Nuts
- Hardware
- Strut Clamps
- Conduit & Tubing Clamps
- Flat Fittings
- Angle Fittings
- Beam Clamps
- Brackets**
- Concrete Inserts & Electrical
- Post Bases
- Rollers
- U-Fittings
- Wing Fittings
- Z-Fittings
- Technical Data
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**BR47**  
Ladder Bracket



Catalog No.	A	B	Wt. lbs
BR470237EG	2 <sup>3</sup> / <sub>8</sub> "	6"	1.10
BR470437EG	4 <sup>3</sup> / <sub>8</sub> "	8"	1.64
BR470637EG	6 <sup>3</sup> / <sub>8</sub> "	10"	2.00
BR470837EG	8 <sup>3</sup> / <sub>8</sub> "	12"	2.53
BR471037EG	10 <sup>3</sup> / <sub>8</sub> "	14"	3.28

**BR50**  
Utility Pole Bracket – Extended Standoff



Catalog Number: BR501000EG  
Weight: 2.36 Lbs.

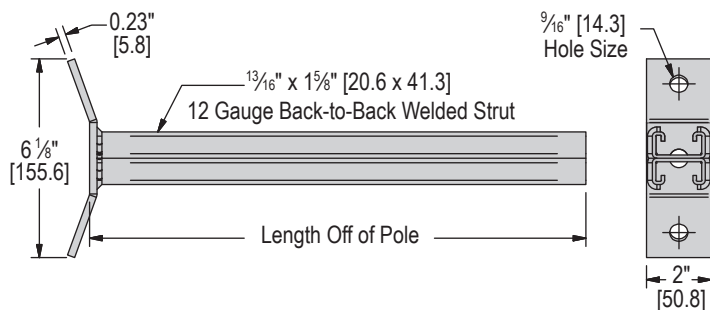
# Brackets

Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

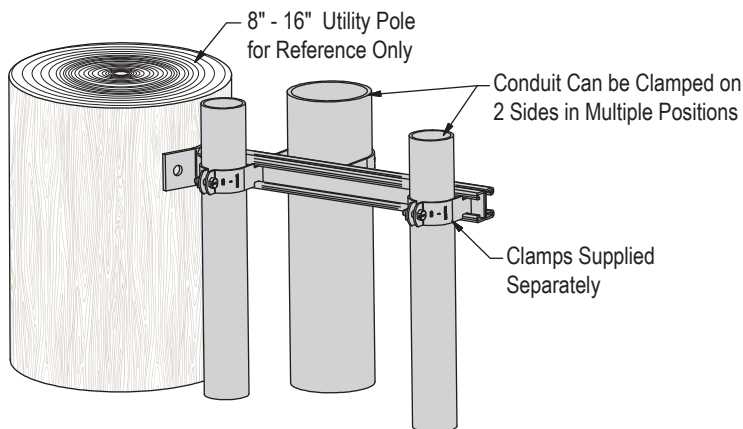
## PB1

### Extended Riser Bracket

- With 1<sup>3</sup>/<sub>16</sub>" 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)



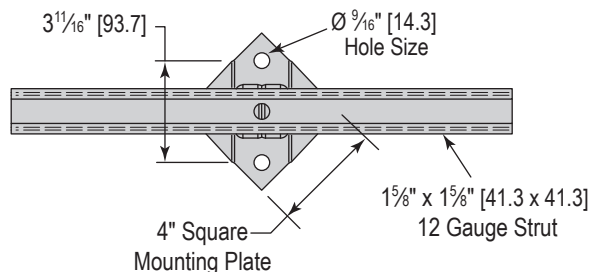
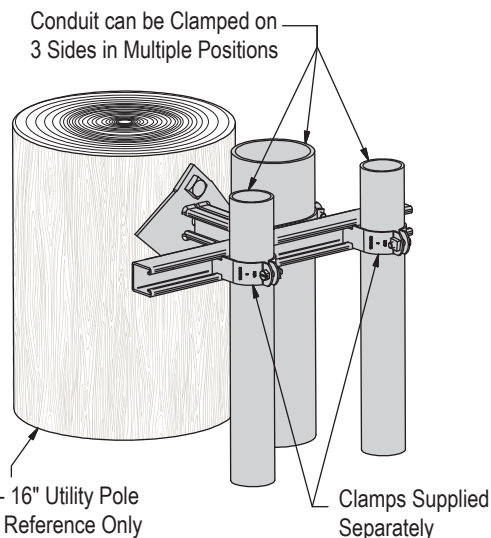
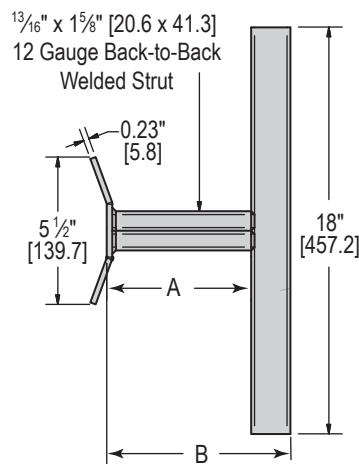
Catalog Number	Length Off of Pole		Wt. lbs
	in	mm	
PB1 1200HD	12"	305	4.83
PB1 1800HD	18"	457	6.78
PB1 2400HD	24"	610	8.69
PB1 3600HD	36"	914	12.51



## PB5

### Standoff Riser Bracket

- With 1<sup>3</sup>/<sub>16</sub>" 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 <sup>5</sup> / <sub>8</sub> "	193.7	4.95
PB5 0918HD	9"	228.6	10 <sup>5</sup> / <sub>8</sub> "	269.9	5.17

- General Info
- Channel Nuts
- Hardware
- Strut Clamps
- Conduit & Tubing Clamps
- Flat Fittings
- Angle Fittings
- Beam Clamps
- Brackets
- Concrete Inserts & Electrical
- Post Bases
- Rollers
- U-Fittings
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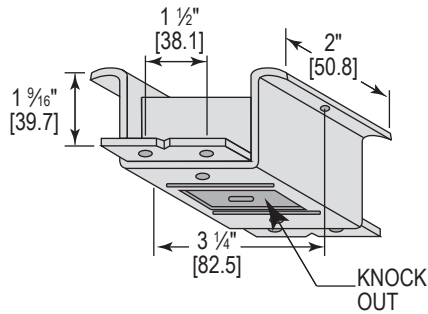


# PHOENIX Concrete Inserts & Electrical

SUPPORT SYSTEMS

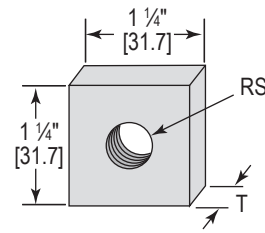
Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

## CI Concrete Insert



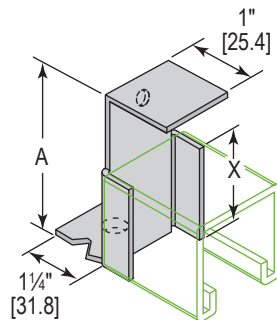
Catalog Number	Wt. lbs	Finish	Design Load	
			lbs	kN
CI 0000EG	.44	EG	600	2.67
CI 0000PL	.42	Plain	600	2.67

## CIN Concrete Insert Nut



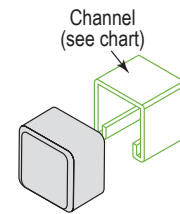
Catalog Number		Wt. lbs	RS	T Thickness
Plain Finish	EG Finish			
CIN 0025PL	CIN 0025EG	0.11	1/4"-20	1/4"
CIN 0037PL	CIN 0037EG	0.16	3/8"-16	1/4"
CIN 0050PL	CIN 0050EG	0.20	1/2"-13	5/16"
CIN 0062PL	CIN 0062EG	0.18	5/8"-11	5/16"
CIN 0075PL	CIN 0075EG	0.17	3/4"-10	1/2"
CIN 0087PL	CIN 0087EG	0.15	7/8"-9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

## CI20, CI21, CI22 Concrete End Cap Anchor



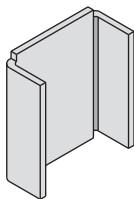
Catalog Number	For Use With Channel (12 Gauge Channel)	X	A	Wt. lbs
CI20000EG	1 5/8" x 1 5/8"	1.415	3 1/8"	0.10
CI21000EG	1 5/8" x 1 3/8"	1.170	2 7/8"	0.10
CI22000EG	1 5/8" x 1"	0.790	2 1/2"	0.10

## EC07, EC08, EC09 Plastic End Cap



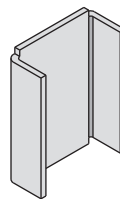
Catalog Number	For Use With Channel	Wt. lbs	Color
EC08000VC	1 5/8" x 1 3/16"	.03	White
EC08000RVC		.03	Red
EC09000VC	1 5/8" x 1 5/8"	.04	White
EC09000RVC		.05	Red
EC07000VC	1 5/8" x 3 1/4"	.05	White
EC07000RVC		.05	Red

## EC10 End Cap (1 5/8" 12 Ga. Channel)



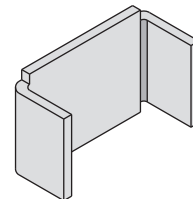
Catalog Number EC10000EG  
Weight: 0.08 Lbs.

## EC11 End Cap (1 5/8" 14 Ga. Channel)



Catalog Number: EC11000EG  
Weight: 0.08 Lbs.

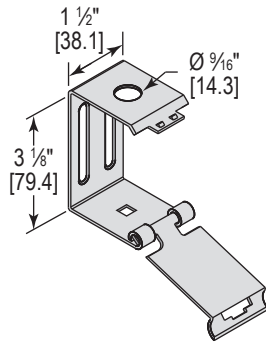
## EC12 End Cap (1 3/16" 12 Ga. or 14 Ga. Channel)



Catalog Number EC12000EG  
Weight: 0.04 Lbs.

## EF10

Hinged Fluorescent Fixture Hanger  
1 5/8" Channel 9/16" Hole

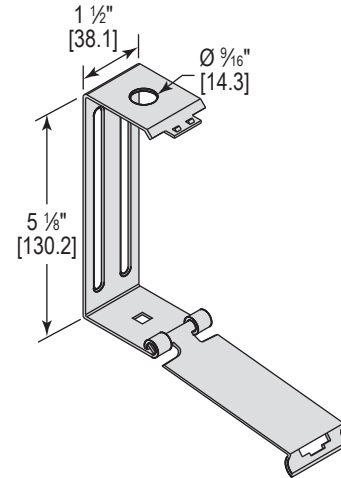


Maximum loading 120 lb. [0.53 kN]  
May be used as a channel hanger,  
EF46 required for fixture attachment (page 57)

Catalog Number EF100000EG  
Weight: 0.35 Lbs.

## EF11

Hinged Fluorescent Fixture Hanger  
3 1/4" Channel 9/16" Hole

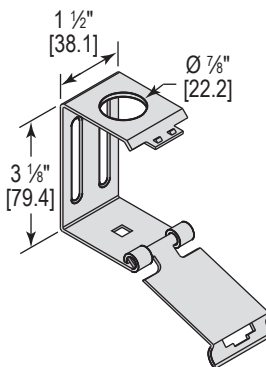


Maximum loading 120 lb. [0.53 kN]  
May be used as a channel hanger,  
EF46 required for fixture attachment (page 57)

Catalog Number EF110000EG  
Weight: 0.44 Lbs.

## EF12

Hinged Fluorescent Fixture Hanger  
1 5/8" Channel 7/8" Hole

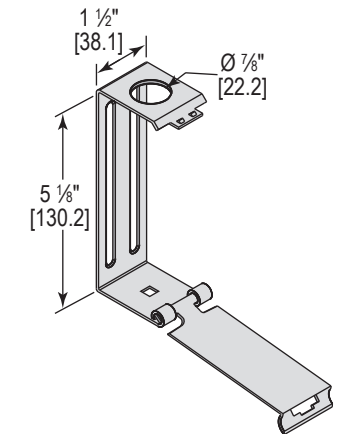


Maximum loading 120 lb. [0.53 kN]  
May be used as a channel hanger  
EF46 required for fixture attachment (page 57)

Catalog Number EF120000EG  
Weight: 0.26 Lbs.

## EF13

Hinged Fluorescent Fixture Hanger  
3 1/4" Channel 7/8" Hole



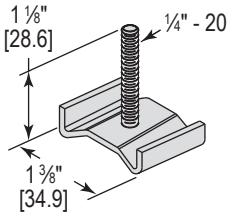
Maximum loading 120 lb. [0.53 kN]  
May be used as a channel hanger  
EF46 required for fixture attachment (page 57)

Catalog Number EF130000EG  
Weight: 0.45 Lbs.

General Info
Channel Nuts
Hardware
Strut Clamps
Conduit & Tubing Clamps
Flat Fittings
Angle Fittings
Beam Clamps
Brackets
Concrete Inserts & Electrical
Post Bases
Rollers
U-Fittings
Wing Fittings
Z-Fittings
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## EF19

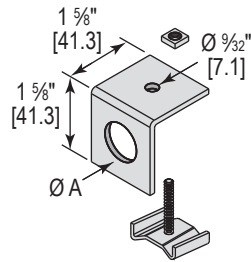
Fixture Stud Nut



Catalog Number: EF190000EG  
 Weight: 0.03 Lbs.

## EF20

End Cap Knock Out with Hardware

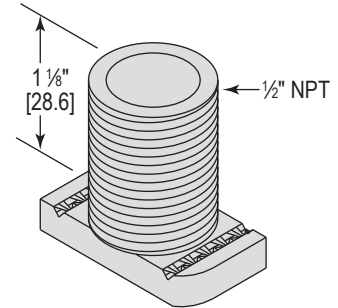


Includes: Qty 1 – EF19 Fixture Stud Nut  
 Qty 1 – 1/4-20 Square Nut

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

## EF21

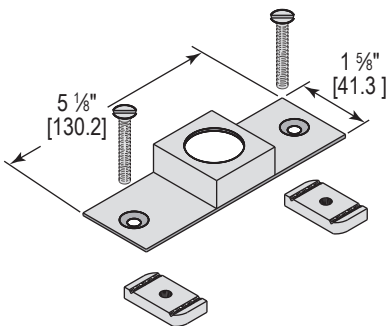
Wiring Stud



Catalog Number: EF210000EG  
 Weight: 0.07 Lbs.

## EF22

Conduit Connection Plate with Hardware

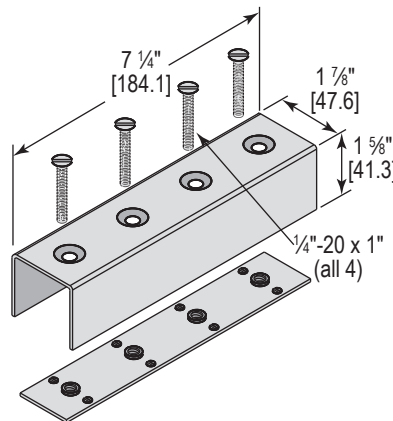


Includes: Qty 2 – CNN20025 Channel Nuts  
 Qty 2 – 1/4-20 Flathead Machine Screws

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

## EF30

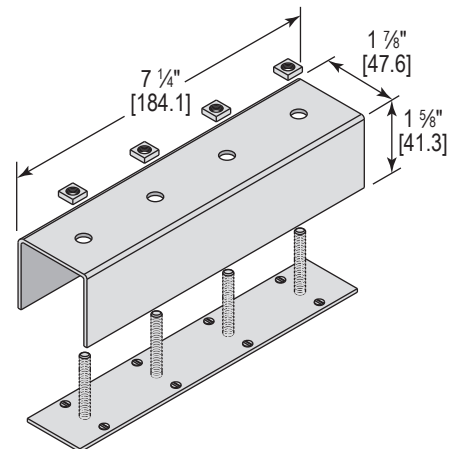
Channel Splice 4 Hole Assembly with Tapped Plate and Hardware



Catalog Number: EF300000EG  
 Weight: 1.06 Lbs.

## EF31

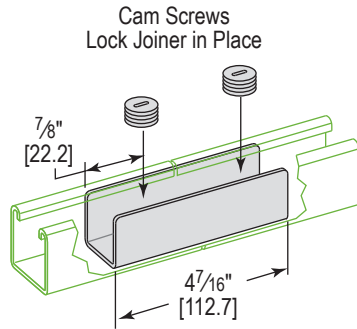
Channel Splice 4 Hole Assembly with Stud Plate and Hardware



Catalog Number: EF310000EG  
 Weight: 1.05 Lbs.

## EF33

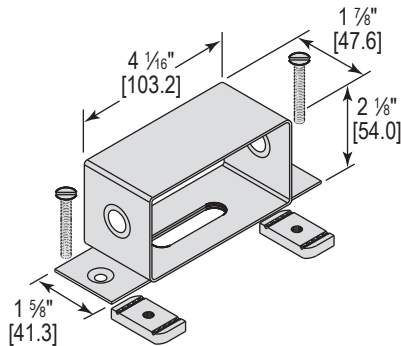
Inside Strut Joiner for  $1\frac{3}{16}$ " or  $1\frac{5}{8}$ " channel



Catalog Number	Use With	Wt. lbs
EF330081EG	$1\frac{3}{16}$ " Channel	.31
EF330162EG	$1\frac{5}{8}$ " Channel	.55

## EF40

Outlet Box Bolt Down with Hardware

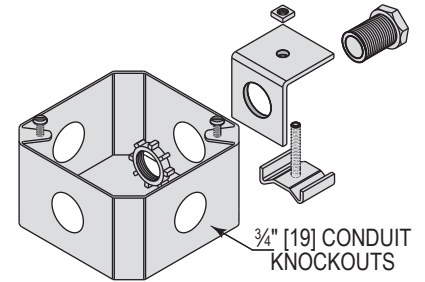


Includes: Qty 2 – CNN20025 Channel Nuts  
Qty 2 –  $\frac{1}{4}$ -20 Flathead Machine Screws

Catalog Number: EF400000EG  
Weight: 0.92 Lbs.

## EF41

Junction Box Universal with 1 Connector

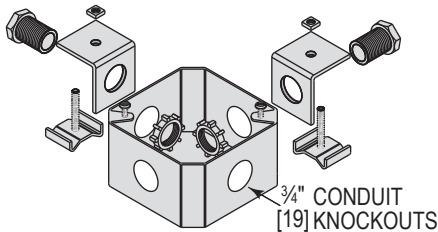


Includes: Qty 1 – EF200075EG  
Qty 1 –  $\frac{3}{4}$ " Bushing with Nut

Catalog Number: EF410000EG  
Weight: 1.92 Lbs.

## EF42

Junction Box Universal with 2 Connectors at 90 Degrees

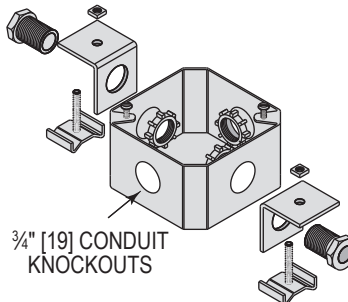


Includes: Qty 2 – EF200075EG  
Qty 2 –  $\frac{3}{4}$ " Bushing with Nut

Catalog Number: EF420000EG  
Weight: 2.13 Lbs.

## EF43

Junction Box Universal with 2 Connectors Opposite

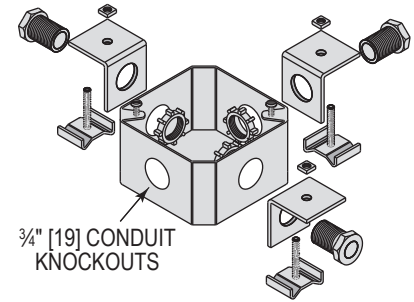


Includes: Qty 2 – EF200075EG  
Qty 2 –  $\frac{3}{4}$ " Bushing with Nut

Catalog Number: EF430000EG  
Weight: 2.34 Lbs.

## EF44

Junction Box Universal with 3 Connectors

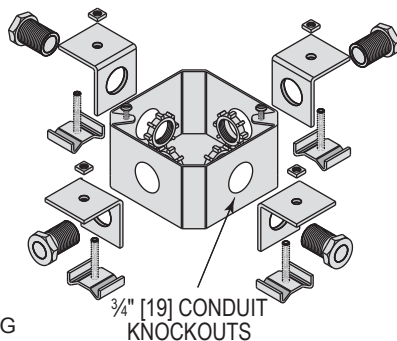


Includes: Qty 3 – EF200075EG  
Qty 3 –  $\frac{3}{4}$ " Bushing with Nut

Catalog Number: EF440000EG  
Weight: 2.55 Lbs.

## EF45

Junction Box Universal with 4 Connectors

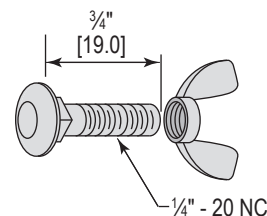


Includes:  
Qty 4 – EF200075EG  
Qty 4 –  $\frac{3}{4}$ " Bushing with Nut

Catalog Number: EF450000EG  
Weight: 2.76 Lbs.

## EF46

$\frac{1}{4}$ " x  $\frac{3}{4}$ " Carriage Bolt and  $\frac{1}{4}$ " Wing Nut

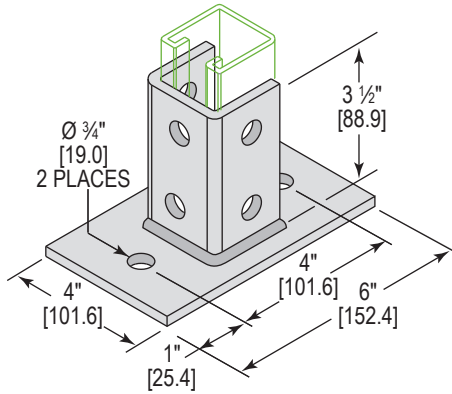


Catalog Number: EF460000EG  
Weight: 0.03 Lbs.

General Info
Channel Nuts
Hardware
Strut Clamps
Conduit & Tubing Clamps
Flat Fittings
Angle Fittings
Beam Clamps
Brackets
Concrete Inserts & Electrical
Post Bases
Rollers
U-Fittings
Wing Fittings
Z-Fittings
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## P10

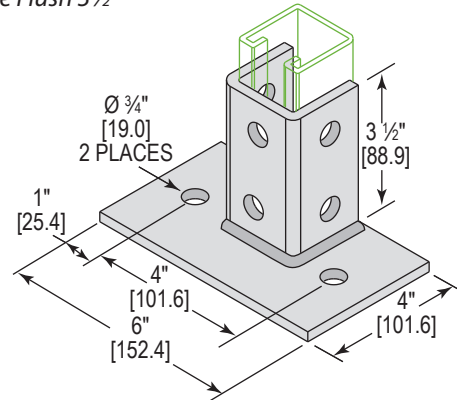
Post Base Single Channel  
2 Hole Square 3 1/2"



Catalog Number: P10 0000EG  
Weight: 2.79 Lbs.

## P11

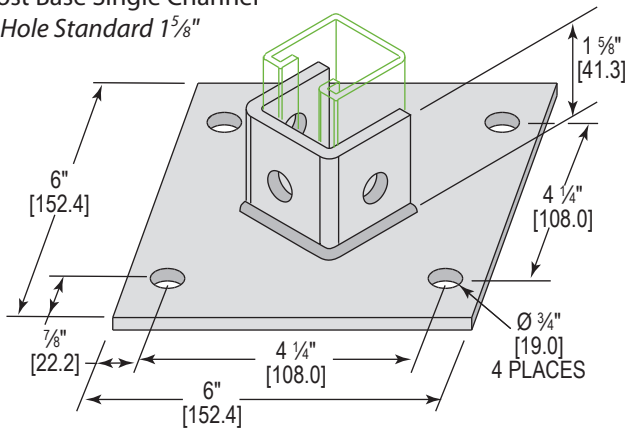
Post Base Single Channel  
2 Hole Square Flush 3 1/2"



Catalog Number: P11 0000EG  
Weight: 2.79 Lbs.

## P12

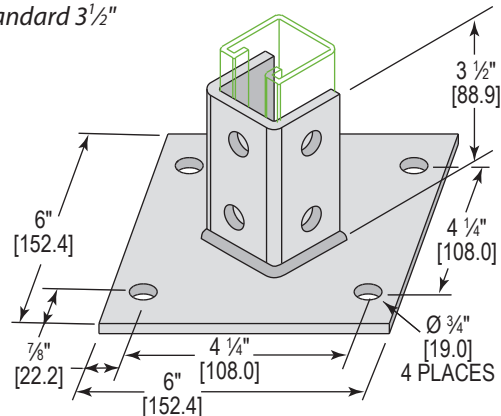
Post Base Single Channel  
4 Hole Standard 1 5/8"



Catalog Number: P12 0000EG  
Weight: 2.96 Lbs.

## P13

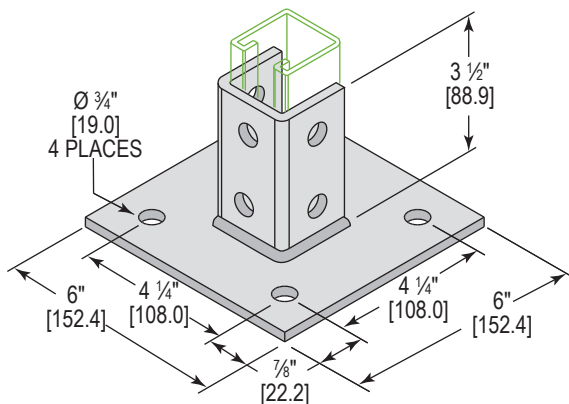
Post Base Single Channel  
4 Hole Standard 3 1/2"



Catalog Number: P13 0000EG  
Weight: 3.56 Lbs.

## P14

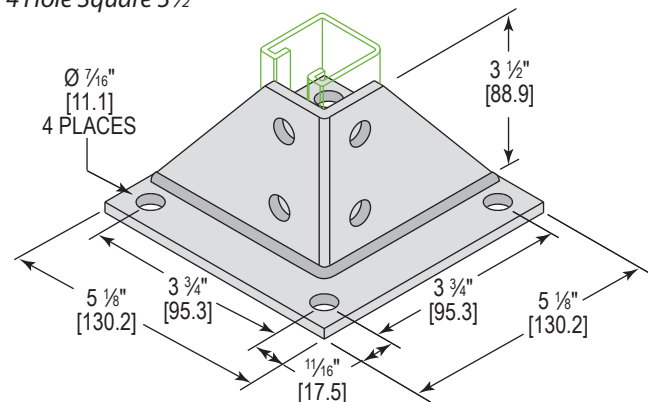
Post Base Single Channel  
4 Hole Square 3 1/2"



Catalog Number: P14 0000EG  
Weight: 3.53 Lbs.

## P15

Post Base Single Channel Gusset  
4 Hole Square 3 1/2"



Catalog Number: P15 0000EG  
Weight: 2.880 Lbs.

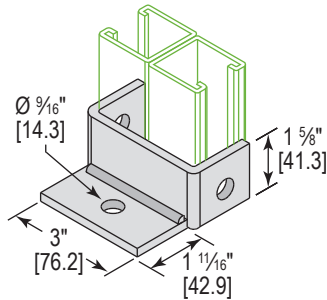
Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" [14.3] diameter, 13/16" [20.6] center to edge on 1/8" [47.6] centers unless specified.

# Post Bases

Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

## P16

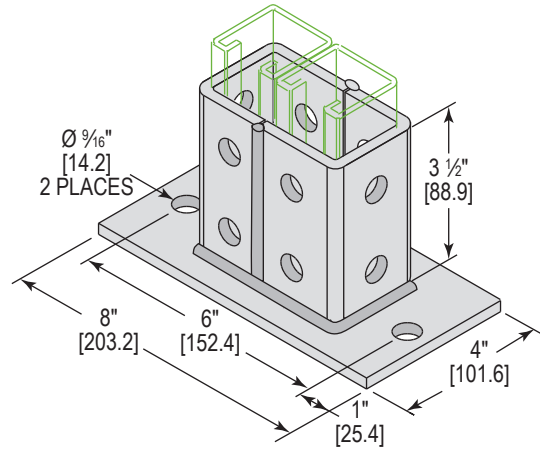
Post Base Double Channel  
1 Hole Square 1<sup>5</sup>/<sub>8</sub>"



Catalog Number: P16 0000EG  
Weight: 1.16 Lbs.

## P17

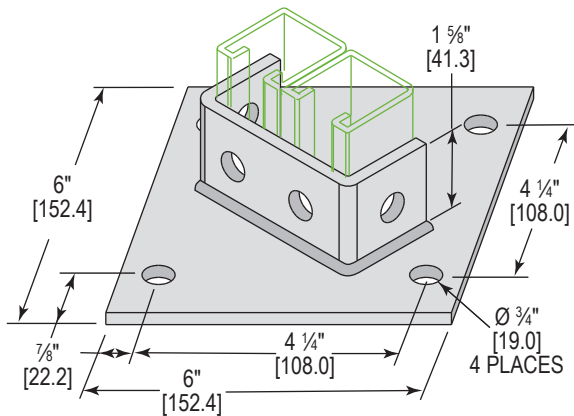
Post Base Double Channel  
2 Hole Square 3<sup>1</sup>/<sub>2</sub>" Boxed



Catalog Number: P17 0000EG  
Weight: 3.11 Lbs.

## P18

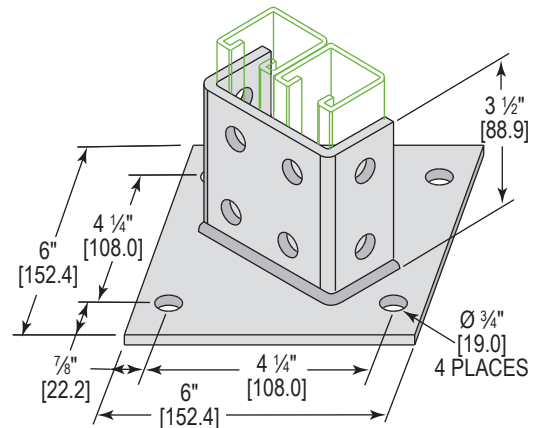
Post Base Double Channel  
4 Hole Standard 1<sup>5</sup>/<sub>8</sub>"



Catalog Number: P18 0000EG  
Weight: 3.1 Lbs.

## P19

Post Base Double Channel  
4 Hole Standard 3<sup>1</sup>/<sub>2</sub>"



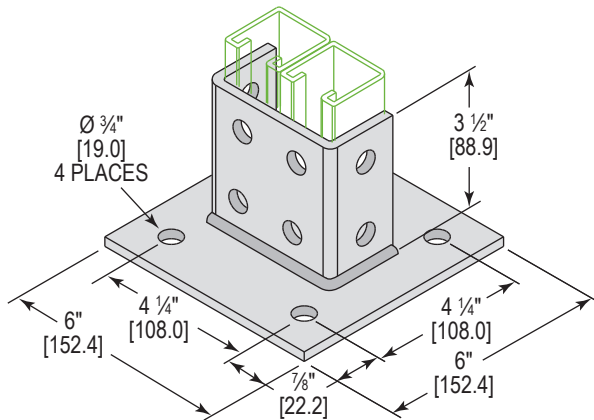
Catalog Number: P19 0000EG  
Weight: 3.87 Lbs.

Material is 1<sup>5</sup>/<sub>8</sub>" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 1<sup>3</sup>/<sub>16</sub>" [20.6] center to edge on 1<sup>7</sup>/<sub>8</sub>" [47.6] centers unless specified.

General Info
Channel Nuts
Hardware
Strut Clamps
Conduit & Tubing Clamps
Flat Fittings
Angle Fittings
Beam Clamps
Brackets
Concrete Inserts & Electrical
Post Bases
Rollers
U-Fittings
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## P20

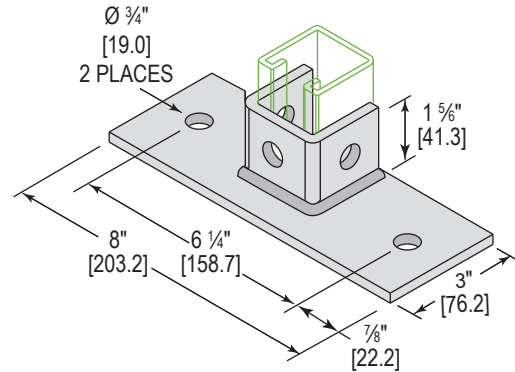
Post Base Double Channel  
4 Hole Square 3 1/2"



Catalog Number: P20 0000EG  
Weight: 3.88 Lbs.

## P21

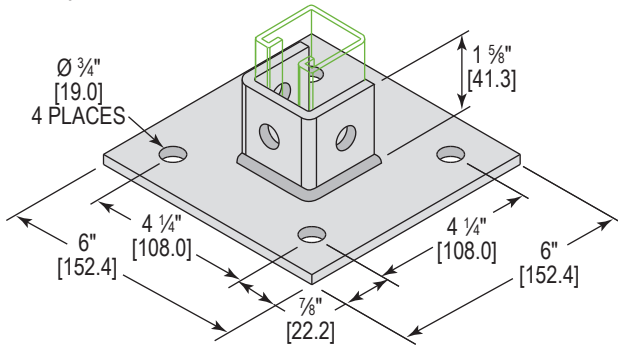
Post Base Single Channel  
2 Hole Square Flush 1 5/8"



Catalog Number: P21 0000EG  
Weight: 2.30 Lbs.

## P22

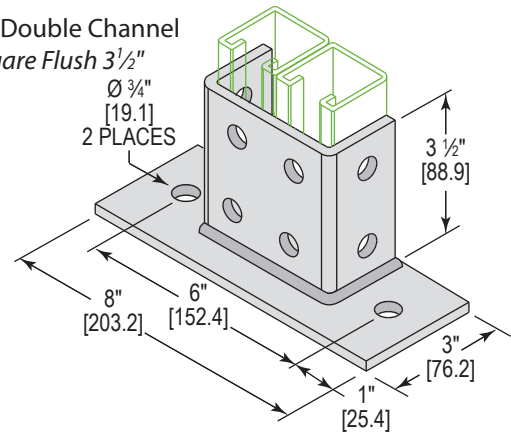
Post Base Single Channel  
4 Hole Square 1 5/8"



Catalog Number: P22 0000EG  
Weight: 2.96 Lbs.

## P23

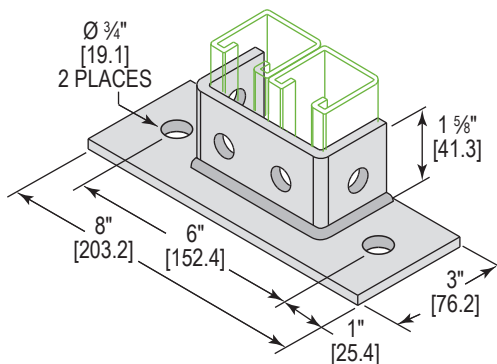
Post Base Double Channel  
2 Hole Square Flush 3 1/2"



Catalog Number: P23 0000EG  
Weight: 3.2 Lbs.

## P24

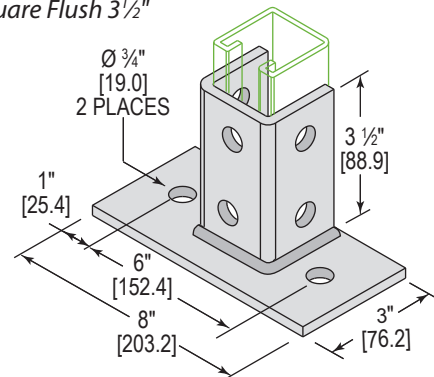
Post Base Double Channel  
2 Hole Square Flush 1 5/8"



Catalog Number: P24 0000EG  
Weight: 2.5 Lbs.

## P26

Post Base Single Channel  
2 Hole Square Flush 3 1/2"



Catalog Number: P26 0000EG  
Weight: 3.12 Lbs.

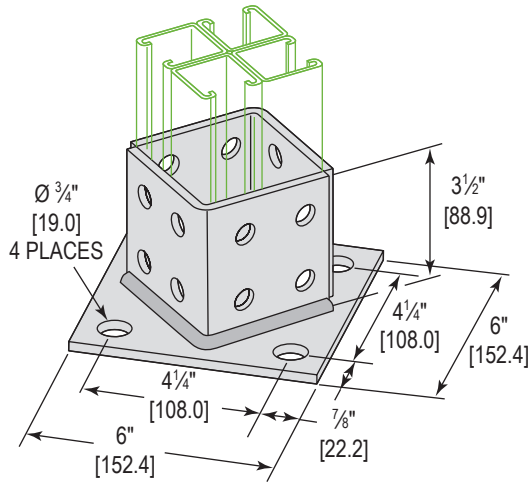
Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" [14.3] diameter, 13/16" [20.6] center to edge on 1/8" [47.6] centers unless specified.

# Post Bases

Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

## P27

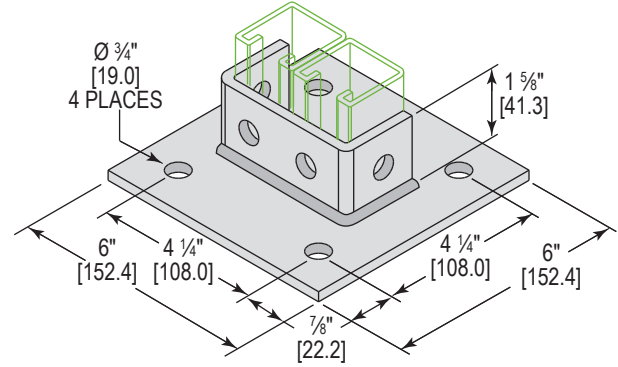
Post Base Four Channel Combinations  
4 Hole Standard 3 1/2"



Catalog Number: P27 0000EG  
Weight: 5.5 Lbs.

## P28

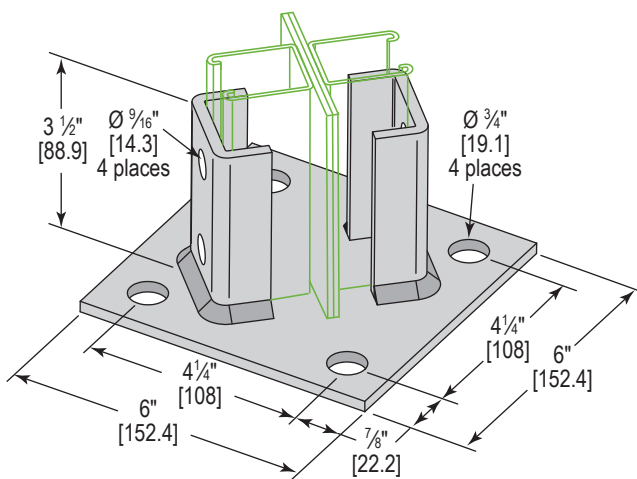
Post Base Double Channel  
4 Hole Square 1 5/8"



Catalog Number: P28 0000EG  
Weight: 3.3 Lbs.

## P29

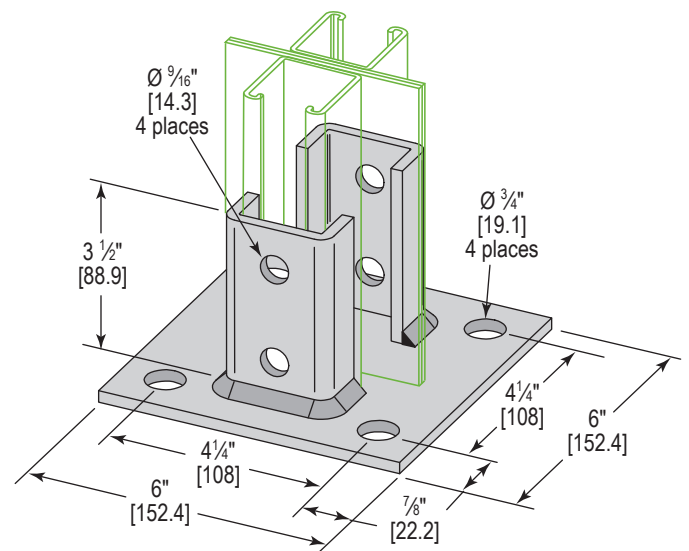
Post Base Double Channel  
4 Hole Standard 3 1/2"



Catalog Number: P29 0000EG  
Weight: 3.88 Lbs.

## P30

Post Base Double Channel - Square  
4 Hole Square 3 1/2"



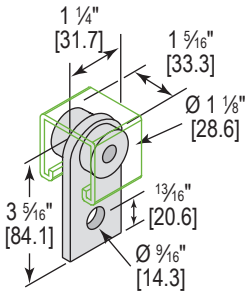
Catalog Number: P30 0000EG  
Weight: 3.88 Lbs.

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.

- General Info
- Channel Nuts
- Hardware
- Strut Clamps
- Conduit & Tubing Clamps
- Flat Fittings
- Angle Fittings
- Beam Clamps
- Brackets
- Concrete Inserts & Electrical
- Post Bases
- Rollers
- U-Fittings
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- Z-Fittings
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## R10

Roller Trolley 2 Bearing Assembly

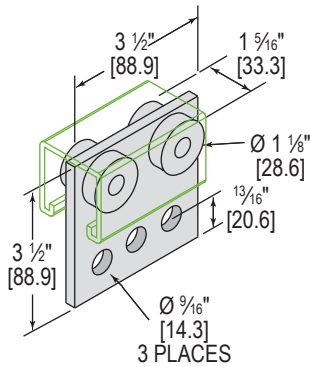


Stainless steel ball bearings  
 Max load rating of 300 lbs. [1.33 kN] with 12ga channel  
**Note: Also available in stainless steel**

Catalog Number: R10 0000EG  
 Weight: 0.46 Lbs.

## R11

Roller Trolley 4 Bearing Assembly

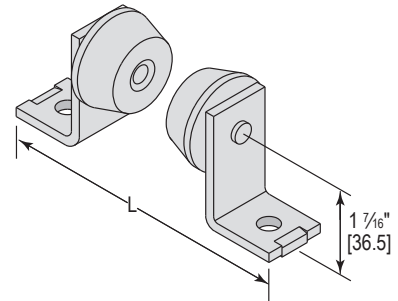


Stainless steel ball bearings  
 Max load rating of 600 lbs. [2.67 kN] with 12ga channel  
**Note: Also available in stainless steel**

Catalog Number: R11 0000EG  
 Weight: 1.19 Lbs.

## R20

Pipe Roller 1" - 4" Pipe

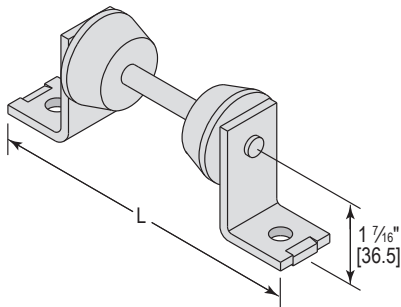


Max load rating of 500 lbs. [2.22 kN] with 12ga channel  
**See page 74 for dimensions L and CL**

Catalog Number: R20 1040EG  
 Weight: 2.61 Lbs.

## R21

Pipe Roller

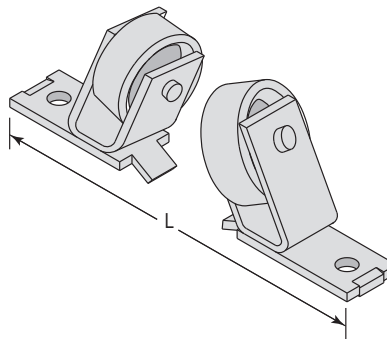


Max load rating of 750 lbs. [3.34 kN] with 12ga channel  
**See page 74 for dimensions L and CL (Center Line)**

Catalog Number	Wt. lbs	Pipe O.D.	
		in	mm
R21 3740EG	2.66	3 3/4 - 4	95 - 102
R21 4360EG	2.71	4 3/8 - 6	111 - 152
R21 6380EG	2.75	6 3/8 - 8	162 - 203
R21 9010EG	2.79	9 - 10	229 - 254

## R22

Pipe Roller Heavy Duty 6" - 16" Pipe

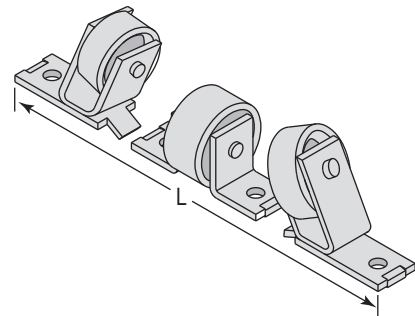


Max load rating of 1500 lbs. [6.67 kN] with 12ga channel  
**See page 75 for dimensions L and CL (Center Line)**

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 75 for dimensions L and CL (Center Line)**

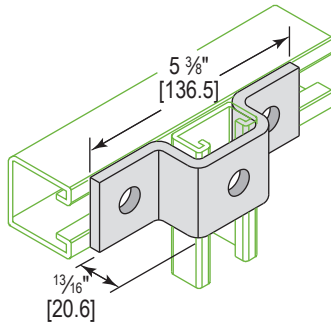
Catalog Number: R23 0000EG  
 Weight: 14.72 Lbs.

# "U" Fittings

Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

## U10

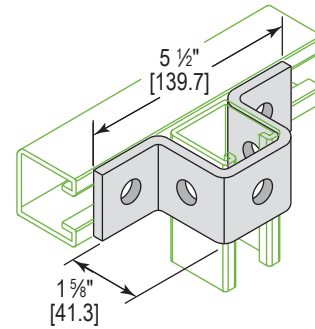
U-Fitting Cross 3 Hole  $1\frac{3}{16}$ "



Catalog Number: U10 0000EG  
Weight: 0.66 Lbs.

## U11

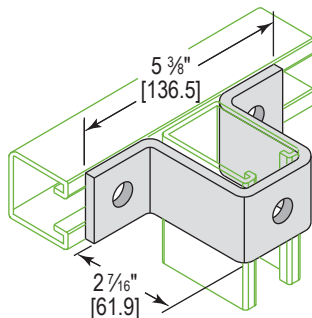
U-Fitting Cross 5 Hole  $1\frac{5}{8}$ "



Catalog Number: U11 0000EG  
Weight: 0.81 Lbs.

## U12

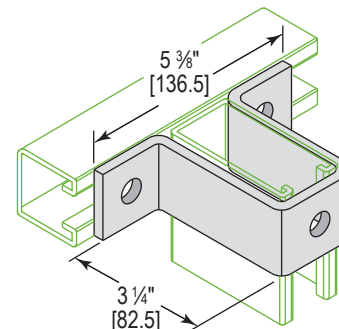
U-Fitting Cross 3 Hole  $2\frac{7}{16}$ "



Catalog Number: U12 0000EG  
Weight: 1.03 Lbs.

## U13

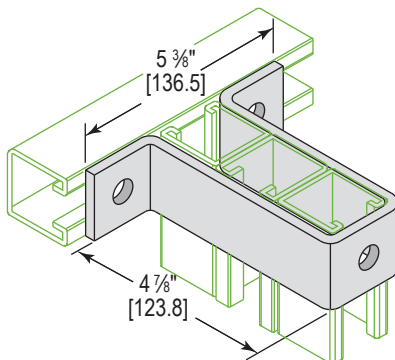
U-Fitting Cross 3 Hole  $3\frac{1}{4}$ "



Catalog Number: U13 0000EG  
Weight: 1.18 Lbs.

## U14

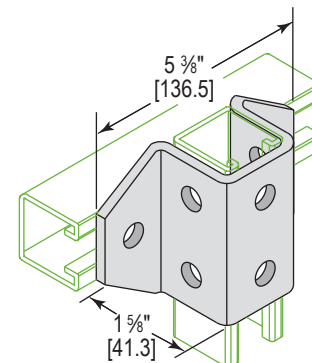
U-Fitting Cross 3 Hole  $4\frac{7}{8}$ "



Catalog Number: U14 0000EG  
Weight: 1.59 Lbs.

## U15

U-Fitting Cross 8 Hole  $1\frac{5}{8}$ "



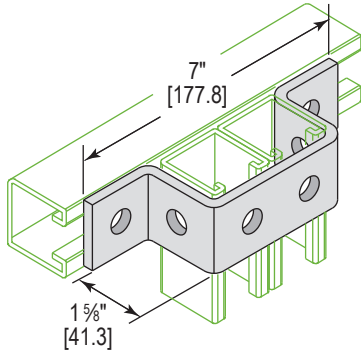
Catalog Number: U15 0000EG  
Weight: 1.67 Lbs.

General Info
Channel Nuts
Hardware
Strut Clamps
Conduit & Tubing Clamps
Flat Fittings
Angle Fittings
Beam Clamps
Brackets
Concrete Inserts & Electrical
Post Bases
Rollers
U-Fittings
Wing Fittings
Z-Fittings
Technical Data
Index

Material is  $1\frac{5}{8}$ " [41.3] wide x  $\frac{1}{4}$ " [6.3] thick unless specified. Holes are  $\frac{9}{16}$ " (14.3) diameter,  $1\frac{3}{16}$ " [20.6] center to edge on  $1\frac{1}{8}$ " [47.6] centers unless specified.

## U16

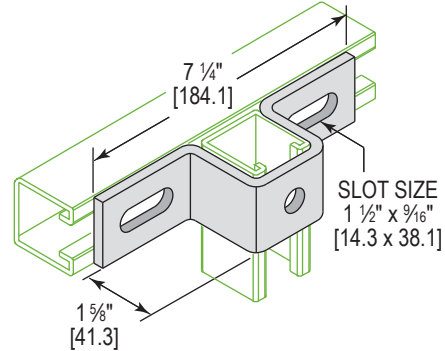
U-Fitting Cross 6 Hole  
1<sup>5</sup>/<sub>8</sub>" Double Channel



Catalog Number: U16 0000EG  
Weight: 0.95 Lbs.

## U20

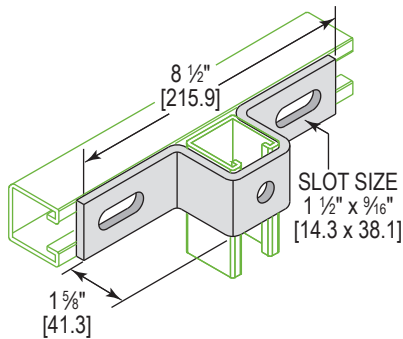
U-Fitting Cross 1 Hole 2 Slot  
1<sup>5</sup>/<sub>8</sub>" X 7<sup>1</sup>/<sub>4</sub>"



Catalog Number: U20 0000EG  
Weight: 0.98 Lbs.

## U21

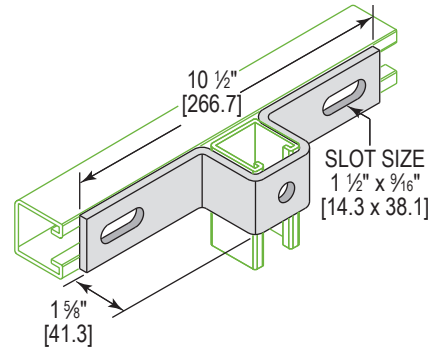
U-Fitting Cross 1 Hole 2 Slot  
1<sup>5</sup>/<sub>8</sub>" X 8<sup>1</sup>/<sub>2</sub>"



Catalog Number: U21 0000EG  
Weight: 1.15 Lbs.

## U22

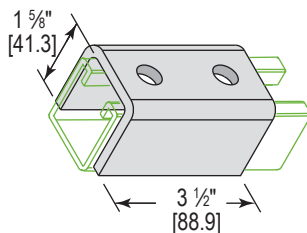
U-Fitting Cross 1 Hole 2 Slot  
1<sup>5</sup>/<sub>8</sub>" X 10<sup>1</sup>/<sub>2</sub>"



Catalog Number: U22 0000EG  
Weight: 1.35 Lbs.

## U30

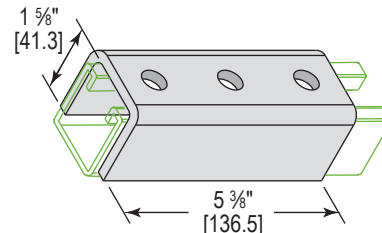
U-Fitting Splice 2 Hole  
1<sup>5</sup>/<sub>8</sub>" Channel



Catalog Number: U30 0000EG  
Weight: 1.19 Lbs.

## U31

U-Fitting Splice 3 Hole  
1<sup>5</sup>/<sub>8</sub>" Channel



Catalog Number: U31 0000EG  
Weight: 1.83 Lbs.

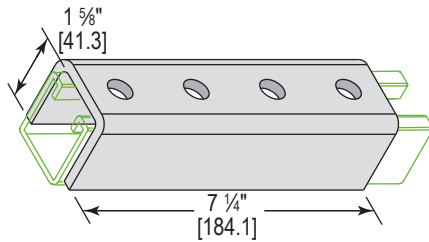
Material is 1<sup>5</sup>/<sub>8</sub>" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (1.1.3) diameter, 13/16" [20.6] center to edge on 1<sup>7</sup>/<sub>8</sub>" [47.6] centers unless specified.

# "U" Fittings

Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

## U32

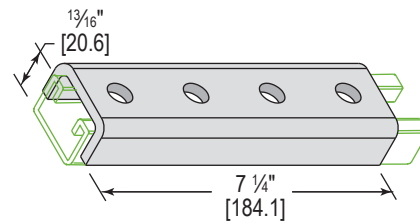
U-Fitting Splice 4 Hole  
1<sup>5</sup>/<sub>8</sub>" Channel



Catalog Number: U32 0000EG  
Weight: 2.44 Lbs.

## U33

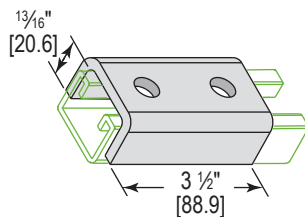
U-Fitting Splice 4 Hole  
1<sup>3</sup>/<sub>16</sub>" Channel



Catalog Number: U33 0000EG  
Weight: 1.63 Lbs.

## U34

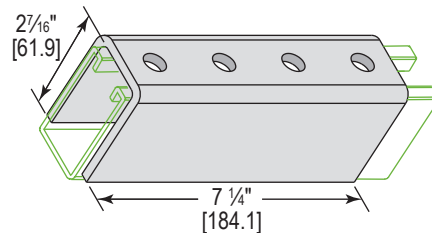
U-Fitting Splice 2 Hole  
1<sup>3</sup>/<sub>16</sub>" Channel



Catalog Number: U34 0000EG  
Weight: 0.84 Lbs.

## U35

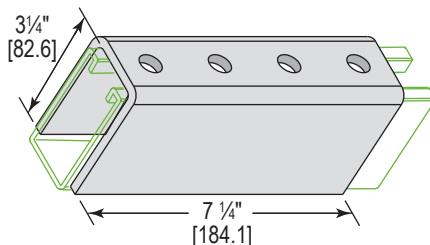
U-Fitting Splice 4 Hole  
2<sup>7</sup>/<sub>16</sub>" Channel



Catalog Number: U35 0000EG  
Weight: 3.15 Lbs.

## U36

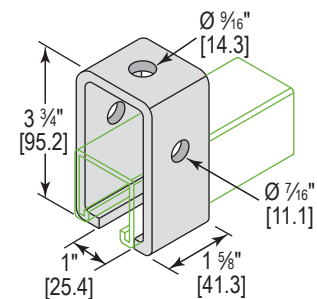
U-Fitting Splice 4 Hole  
3<sup>1</sup>/<sub>4</sub>" Channel



Catalog Number: U36 0000EG  
Weight: 3.8 Lbs.

## U40

U-Fitting Trolley Support  
3 Hole Standard



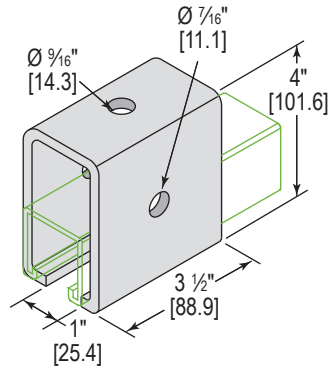
Catalog Number: U40 0000EG  
Weight: 1 Lbs.

General Info
Channel Nuts
Hardware
Strut Clamps
Conduit & Tubing Clamps
Flat Fittings
Angle Fittings
Beam Clamps
Brackets
Concrete Inserts & Electrical
Post Bases
Rollers
U-Fittings
Wing Fittings
Z-Fittings
Technical Data
Index

Material is 1<sup>5</sup>/<sub>8</sub>" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 1<sup>3</sup>/<sub>16</sub>" [20.6] center to edge on 1<sup>5</sup>/<sub>8</sub>" [47.6] centers unless specified.

## U41

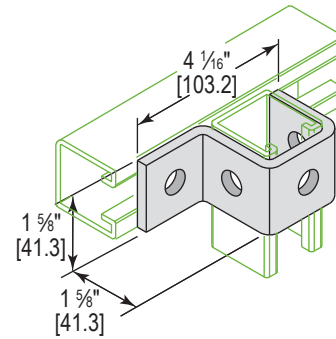
U-Fitting Trolley Support  
3 Hole Heavy Duty



Catalog Number: U41 0000EG  
Weight: 2.2 Lbs.

## U50

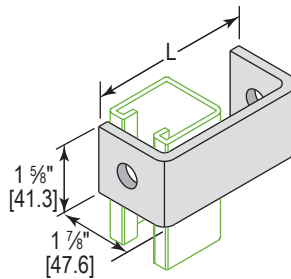
U-Fitting 4 Hole Cup Support



Catalog Number: U50 0000EG  
Weight: 0.67 Lbs.

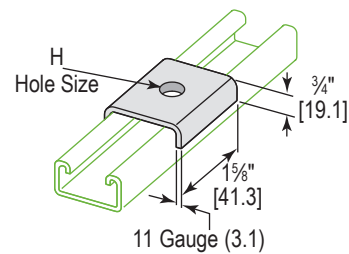
## U60

U-Fitting Clevis 2 Hole



## U70

U-Shaped Washers



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

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

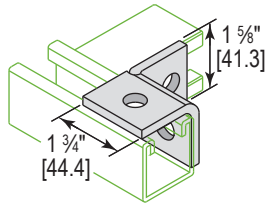
Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1 7/8" [47.6] centers unless specified.

# Wing Fittings

Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

## W10

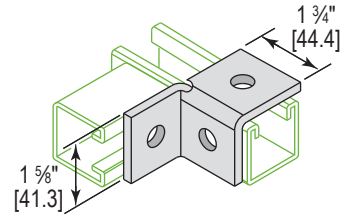
Wing Fitting Single Corner 2 Hole Right



Catalog Number: W10 0000EG  
Weight: 0.53 Lbs.

## W11

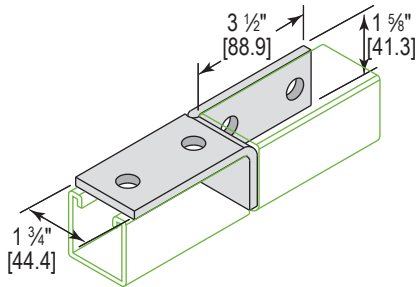
Wing Fitting Single Corner 2 Hole Left



Catalog Number: W11 0000EG  
Weight: 0.53 Lbs.

## W12

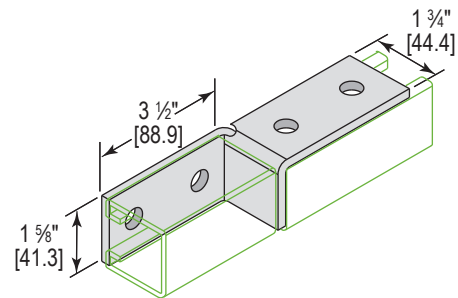
Wing Fitting Single Corner 4 Hole Right



Catalog Number: W12 0000EG  
Weight: 0.97 Lbs.

## W13

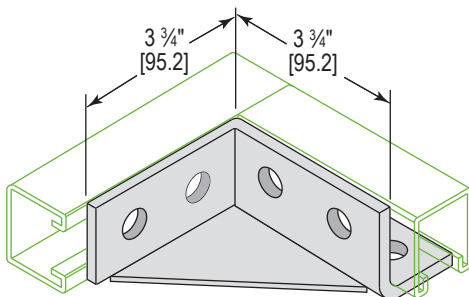
Wing Fitting Single Corner 4 Hole Left



Catalog Number: W13 0000EG  
Weight: 0.86 Lbs.

## W14

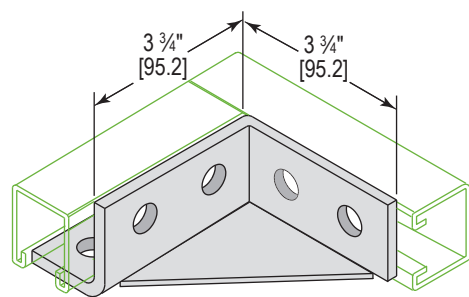
Wing Fitting Single Corner 6 Hole Gusset Right



Catalog Number: W14 0000EG  
Weight: 1.68 Lbs.

## W15

Wing Fitting Single Corner 6 Hole Gusset Left



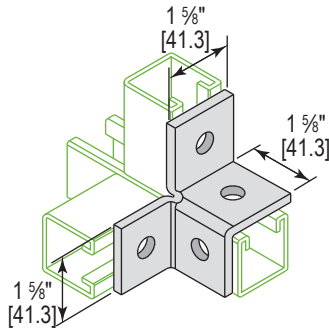
Catalog Number: W15 0000EG  
Weight: 1.68 Lbs.

General Info
Channel Nuts
Hardware
Strut Clamps
Conduit & Tubing Clamps
Flat Fittings
Angle Fittings
Beam Clamps
Brackets
Concrete Inserts & Electrical
Post Bases
Rollers
U-Fittings
Wing Fittings
Z-Fittings
Technical Data
Index

Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 1 3/16" [20.6] center to edge on 1 1/8" [47.6] centers unless specified.

## W20

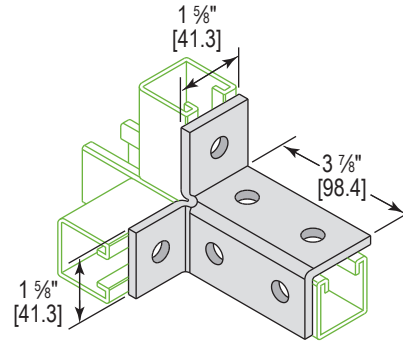
Wing Fitting Double Corner 4 Hole



Catalog Number: W20 0000EG  
Weight: 0.69 Lbs.

## W21

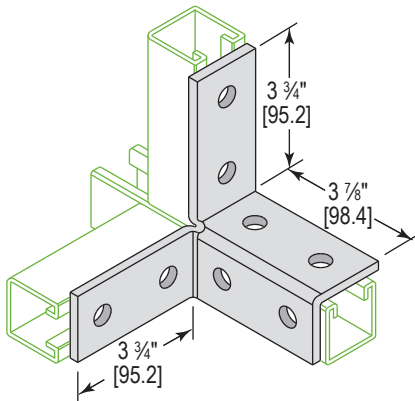
Wing Fitting Double Corner 6 Hole



Catalog Number: W21 0000EG  
Weight: 1.12 Lbs.

## W22

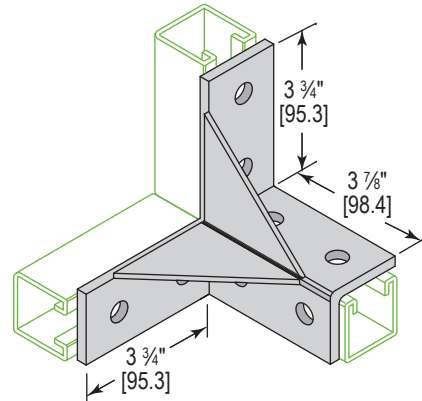
Wing Fitting Double Corner 8 Hole



Catalog Number: W22 0000EG  
Weight: 1.47 Lbs.

## W23

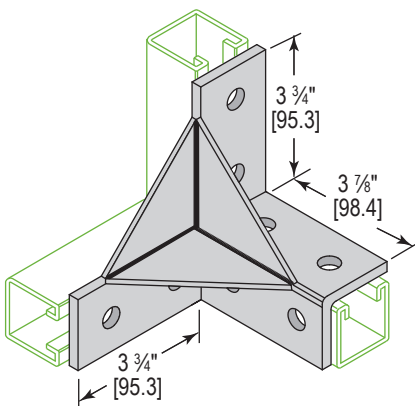
Wing Fitting Double Corner 8 Hole Gusset



Catalog Number: W23 0000EG  
Weight: 2.05 Lbs.

## W24

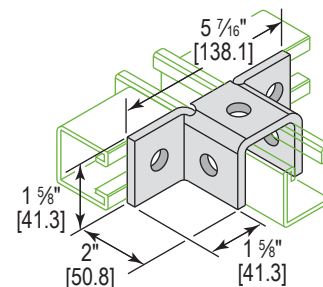
Wing Fitting Double Corner 8 Hole Double Gusset



Catalog Number: W24 0000EG  
Weight: 2.26 Lbs.

## W30

Wing Fitting Corner Connector 5 Hole Opposed



Catalog Number: W30 0000EG  
Weight: 0.94 Lbs.

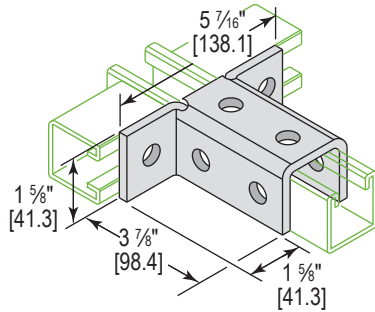
Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1 7/8" [47.6] centers unless specified.

# Wing Fittings

Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

## W31

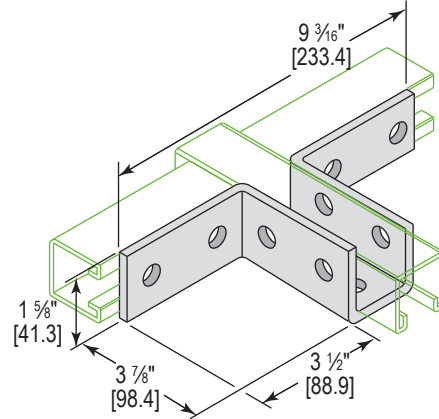
Wing Fitting Corner Connector 8 Hole Opposed



Catalog Number: W31 0000EG  
Weight: 1.56 Lbs.

## W32

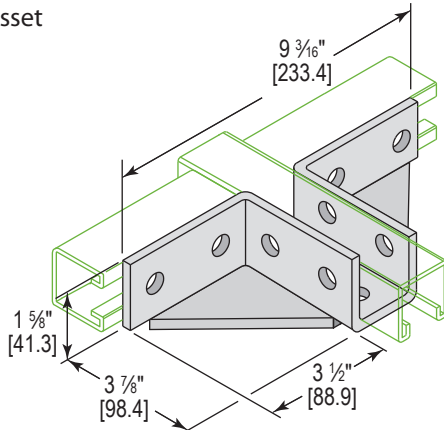
Wing Fitting Corner Connector 10 Hole Opposed



Catalog Number: W32 0000EG  
Weight: 1.95 Lbs.

## W33

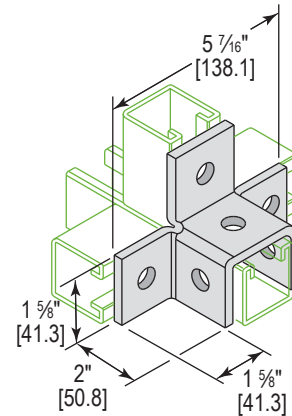
Wing Fitting Corner Connector 10 Hole Opposed Double Gusset



Catalog Number: W33 0000EG  
Weight: 2.94 Lbs.

## W40

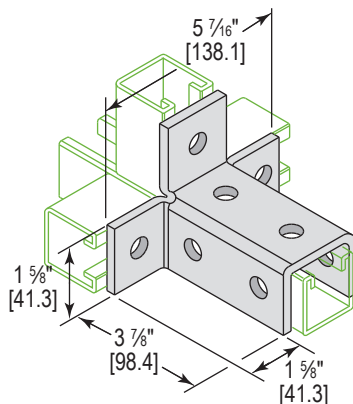
Wing Fitting Triple Corner 6 Hole



Catalog Number: W40 0000EG  
Weight: 1.04 Lbs.

## W41

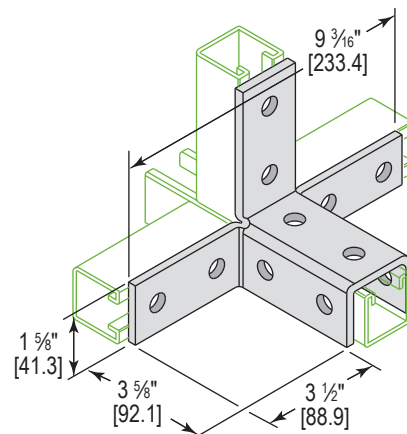
Wing Fitting Triple Corner 9 Hole



Catalog Number: W41 0000EG  
Weight: 1.57 Lbs.

## W42

Wing Fitting Triple Corner 12 Hole



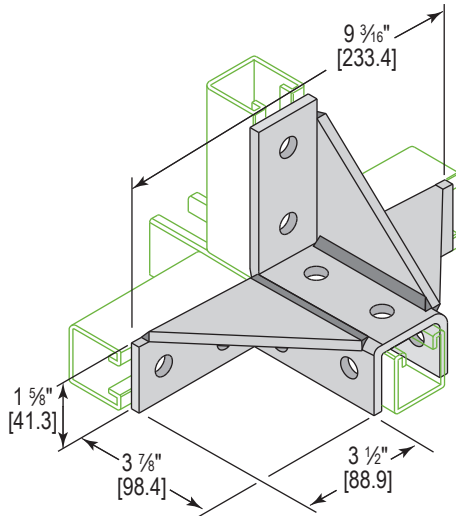
Catalog Number: W42 0000EG  
Weight: 2.34 Lbs.

- General Info
- Channel Nuts
- Hardware
- Strut Clamps
- Conduit & Tubing Clamps
- Flat Fittings
- Angle Fittings
- Beam Clamps
- Brackets
- Concrete Inserts & Electrical
- Post Bases
- Rollers
- U-Fittings
- Wing Fittings
- Z-Fittings
- Technical Data
- Index

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 1/8" [47.6] centers unless specified.

## W43

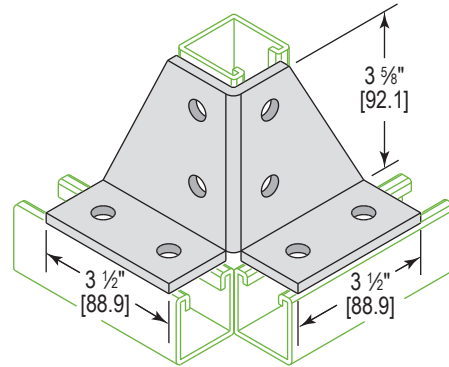
Wing Fitting Triple Corner 12 Hole Gusset



Catalog Number: W43 0000EG  
Weight: 2.85 Lbs.

## W50

Wing Fitting Double Corner Connector 8 Hole



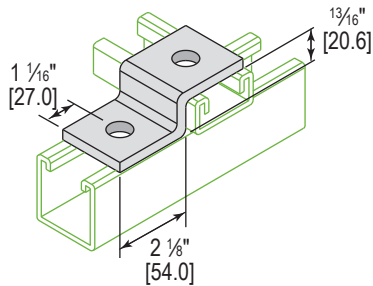
Catalog Number: W50 0000EG  
Weight: 2.14 Lbs.

# "Z" Fittings

Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

## Z10

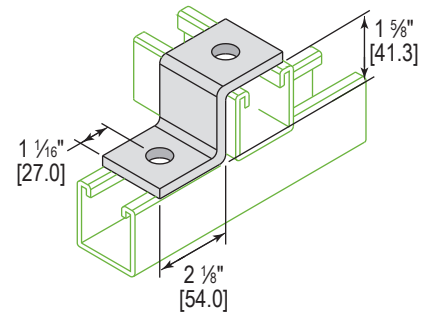
Z Fitting Cross 2 Hole  $1\frac{3}{16}$ "



Catalog Number: Z10 0000EG  
Weight: 0.41 Lbs.

## Z11

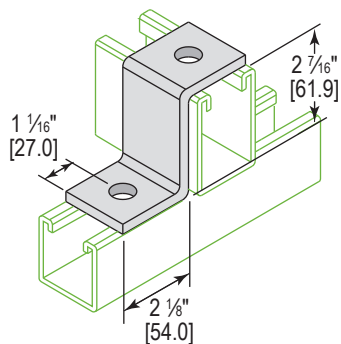
Z Fitting Cross 2 Hole  $1\frac{5}{8}$ "



Catalog Number: Z11 0000EG  
Weight: 0.48 Lbs.

## Z12

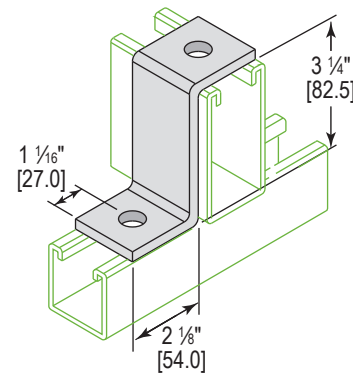
Z Fitting Cross 2 Hole  $2\frac{7}{16}$ "



Catalog Number: Z12 0000EG  
Weight: 0.54 Lbs.

## Z13

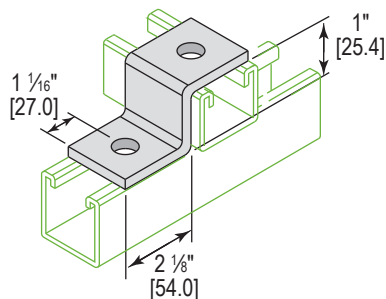
Z Fitting Cross 2 Hole  $3\frac{1}{4}$ "



Catalog Number: Z13 0000EG  
Weight: 0.67 Lbs.

## Z14

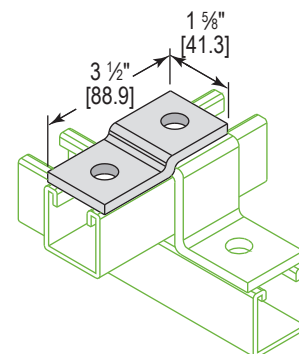
Z Fitting Cross 2 Hole 1"



Catalog Number: Z14 0000EG  
Weight: 0.45 Lbs.

## Z20

Z Fitting Offset Support 2 Hole



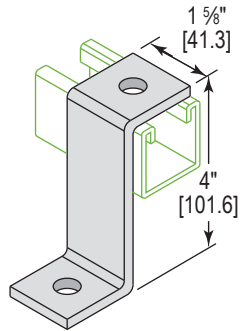
Catalog Number: Z20 0000EG  
Weight: 0.35 Lbs.

General Info
Channel Nuts
Hardware
Strut Clamps
Conduit & Tubing Clamps
Flat Fittings
Angle Fittings
Beam Clamps
Brackets
Concrete Inserts & Electrical
Post Bases
Rollers
U-Fittings
Wing Fittings
Z-Fittings
Technical Data
Index

Material is  $1\frac{5}{8}$ " [41.3] wide x  $\frac{1}{4}$ " [6.3] thick unless specified. Holes are  $\frac{9}{16}$ " (14.3) diameter,  $1\frac{3}{16}$ " [20.6] center to edge on  $1\frac{1}{8}$ " [47.6] centers unless specified.

## Z30

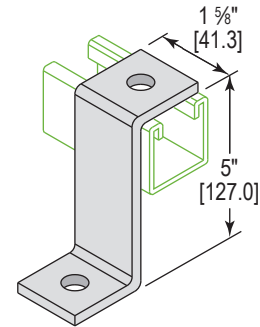
Z Fitting 2 Hole Support 4"



Catalog Number: Z30 0000EG  
Weight: 0.77 Lbs.

## Z31

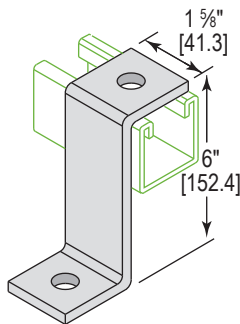
Z Fitting 2 Hole Support 5"



Catalog Number: Z31 0000EG  
Weight: 0.95 Lbs.

## Z32

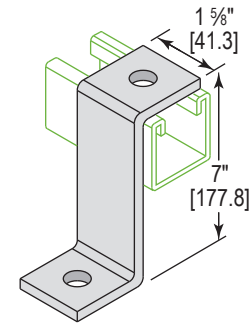
Z Fitting 2 Hole Support 6"



Catalog Number: Z32 0000EG  
Weight: 0.98 Lbs.

## Z33

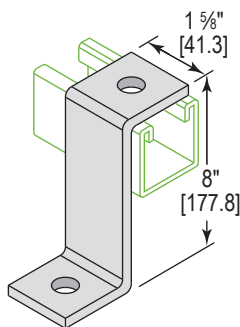
Z Fitting 2 Hole Support 7"



Catalog Number: Z33 0000EG  
Weight: 1.07 Lbs.

## Z34

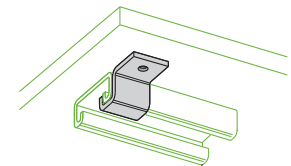
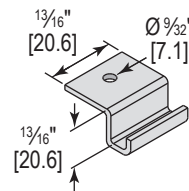
Z Fitting 2 Hole Support 8"



Catalog Number: Z34 0000EG  
Weight: 1.23 Lbs.

## Z40

Z Fitting Channel Hanger  $1\frac{3}{16}$ "



Note: Material is 11 gauge

Catalog Number: Z40 0000EG  
Weight: 0.083 Lbs.

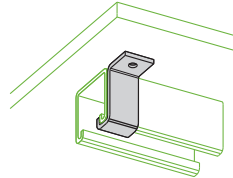
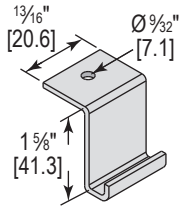
Material is  $1\frac{5}{8}$ " [41.3] wide x  $\frac{1}{4}$ " [6.3] thick unless specified. Holes are  $\frac{9}{16}$ " (14.3) diameter,  $1\frac{3}{16}$ " [20.6] center to edge on  $1\frac{1}{8}$ " [47.6] centers unless specified.

# "Z" Fittings

Standard finish is Zinc Electroplate (EG) • Product finishes and materials is on page 4.

## Z41

Z Fitting Channel Hanger 1<sup>5</sup>/<sub>8</sub>"

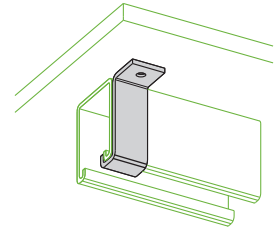
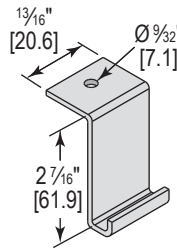


Note: Material is 11 gauge

Catalog Number: Z41 0000EG  
Weight: 0.09 Lbs.

## Z42

Z Fitting Channel Hanger 2<sup>7</sup>/<sub>16</sub>"

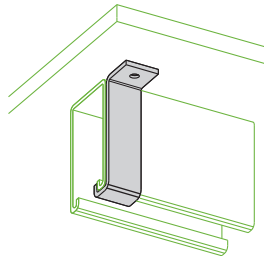
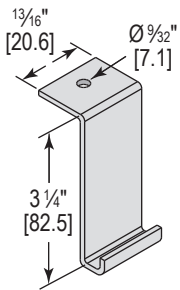


Note: Material is 11 gauge

Catalog Number: Z42 0000EG  
Weight: 0.112 Lbs.

## Z43

Z Fitting Channel Hanger 3<sup>1</sup>/<sub>4</sub>"

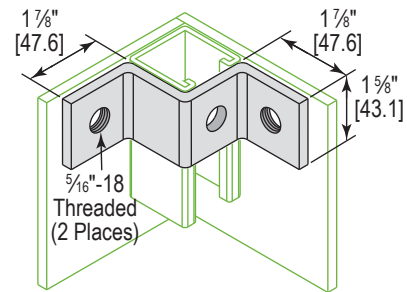


Note: Material is 11 gauge

Catalog Number: Z43 0000EG  
Weight: 0.134 Lbs.

## Z50

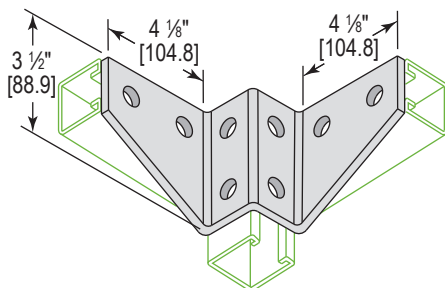
Z Fitting Corner Brace 3 Hole



Catalog Number: Z50 0000EG  
Weight: 0.67 Lbs.

## Z51

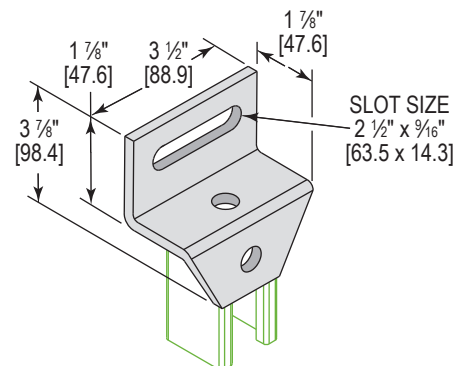
Z Fitting Corner Brace 8 Hole



Catalog Number: Z51 0000EG  
Weight: 2.03 Lbs.

## Z60

Z Fitting Slotted Support



Catalog Number: Z60 0000EG  
Weight: 0.97 Lbs.

General Info
Channel Nuts
Hardware
Strut Clamps
Conduit & Tubing Clamps
Flat Fittings
Angle Fittings
Beam Clamps
Brackets
Concrete Inserts & Electrical
Post Bases
Rollers
U-Fittings
Wing Fittings
Z-Fittings
Technical Data
Index

Material is 1<sup>5</sup>/<sub>8</sub>" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 1<sup>3</sup>/<sub>16</sub>" [20.6] center to edge on 1<sup>7</sup>/<sub>8</sub>" [47.6] centers unless specified.

## 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
<b>3/4</b>	0	0.0	1 <sup>1</sup> / <sub>16</sub>	27.0	6 <sup>1</sup> / <sub>2</sub>	165.1	2 <sup>15</sup> / <sub>16</sub>	74.6
	7 <sup>8</sup> / <sub>16</sub>	22.2	3 <sup>1</sup> / <sub>4</sub>	82.6	6 <sup>1</sup> / <sub>2</sub>	165.1	4 <sup>1</sup> / <sub>8</sub>	104.8
	1 <sup>7</sup> / <sub>16</sub>	36.5	4 <sup>3</sup> / <sub>8</sub>	111.1	8 <sup>1</sup> / <sub>4</sub>	209.6	4 <sup>7</sup> / <sub>16</sub>	112.7
	1 <sup>7</sup> / <sub>8</sub>	47.6	5 <sup>3</sup> / <sub>8</sub>	136.5	8 <sup>1</sup> / <sub>4</sub>	209.6	4 <sup>15</sup> / <sub>16</sub>	125.4
<b>1</b>	0	0.0	1 <sup>5</sup> / <sub>16</sub>	33.3	6 <sup>1</sup> / <sub>2</sub>	165.1	3 <sup>8</sup> / <sub>16</sub>	79.4
	1 <sup>1</sup> / <sub>16</sub>	27.0	3 <sup>5</sup> / <sub>8</sub>	92.1	7 <sup>1</sup> / <sub>4</sub>	184.2	4 <sup>1</sup> / <sub>4</sub>	108.0
	1 <sup>9</sup> / <sub>16</sub>	39.7	4 <sup>5</sup> / <sub>8</sub>	117.5	8 <sup>1</sup> / <sub>4</sub>	209.6	4 <sup>9</sup> / <sub>16</sub>	115.9
	2 <sup>1</sup> / <sub>8</sub>	54.0	5 <sup>3</sup> / <sub>4</sub>	146.1	8 <sup>1</sup> / <sub>4</sub>	209.6	5 <sup>1</sup> / <sub>8</sub>	130.2
<b>1 1/4</b>	0	0.0	1 <sup>11</sup> / <sub>16</sub>	42.9	6 <sup>1</sup> / <sub>2</sub>	165.1	3 <sup>5</sup> / <sub>16</sub>	84.1
	7 <sup>8</sup> / <sub>16</sub>	22.2	3 <sup>7</sup> / <sub>8</sub>	98.4	7 <sup>1</sup> / <sub>4</sub>	184.2	4 <sup>5</sup> / <sub>16</sub>	109.5
	1 <sup>5</sup> / <sub>8</sub>	41.3	5 <sup>1</sup> / <sub>8</sub>	130.2	8 <sup>1</sup> / <sub>4</sub>	209.6	4 <sup>13</sup> / <sub>16</sub>	122.2
	1 <sup>15</sup> / <sub>16</sub>	49.2	6	152.4	8 <sup>1</sup> / <sub>4</sub>	209.6	5 <sup>1</sup> / <sub>4</sub>	133.4
	2 <sup>7</sup> / <sub>16</sub>	61.9	7 <sup>1</sup> / <sub>2</sub>	190.5	9 <sup>1</sup> / <sub>4</sub>	235.0	5 <sup>7</sup> / <sub>8</sub>	149.2
<b>1 1/2</b>	0	0.0	1 <sup>7</sup> / <sub>8</sub>	47.6	6 <sup>1</sup> / <sub>2</sub>	165.1	3 <sup>3</sup> / <sub>8</sub>	85.7
	1	25.4	4 <sup>1</sup> / <sub>4</sub>	108.0	8 <sup>1</sup> / <sub>4</sub>	209.6	4 <sup>3</sup> / <sub>8</sub>	111.1
	1 <sup>1</sup> / <sub>2</sub>	38.1	5 <sup>1</sup> / <sub>4</sub>	133.4	8 <sup>1</sup> / <sub>4</sub>	209.6	4 <sup>7</sup> / <sub>8</sub>	123.8
	2 <sup>5</sup> / <sub>16</sub>	58.7	6 <sup>5</sup> / <sub>8</sub>	168.3	9 <sup>1</sup> / <sub>4</sub>	235.0	5 <sup>7</sup> / <sub>16</sub>	138.1
	2 <sup>13</sup> / <sub>16</sub>	71.4	7 <sup>3</sup> / <sub>4</sub>	196.9	9 <sup>1</sup> / <sub>4</sub>	235.0	6	152.4
<b>2</b>	0	0.0	2 <sup>3</sup> / <sub>8</sub>	60.3	6 <sup>1</sup> / <sub>2</sub>	165.1	3 <sup>11</sup> / <sub>16</sub>	93.7
	1 <sup>1</sup> / <sub>16</sub>	27.0	4 <sup>3</sup> / <sub>4</sub>	120.7	8 <sup>1</sup> / <sub>4</sub>	209.6	4 <sup>5</sup> / <sub>8</sub>	117.5
	1 <sup>9</sup> / <sub>16</sub>	39.7	5 <sup>3</sup> / <sub>4</sub>	146.1	8 <sup>1</sup> / <sub>4</sub>	209.6	5 <sup>1</sup> / <sub>8</sub>	130.2
	2 <sup>1</sup> / <sub>8</sub>	54.0	7 <sup>1</sup> / <sub>8</sub>	181.0	9 <sup>1</sup> / <sub>4</sub>	235.0	5 <sup>11</sup> / <sub>16</sub>	144.5
	2 <sup>5</sup> / <sub>8</sub>	66.7	8 <sup>1</sup> / <sub>8</sub>	206.4	10 <sup>1</sup> / <sub>8</sub>	257.2	6 <sup>1</sup> / <sub>16</sub>	154.0
<b>2 1/2</b>	0	0.0	2 <sup>7</sup> / <sub>8</sub>	73.0	6 <sup>1</sup> / <sub>2</sub>	165.1	3 <sup>15</sup> / <sub>16</sub>	100.0
	1 <sup>1</sup> / <sub>16</sub>	27.0	5 <sup>3</sup> / <sub>8</sub>	136.5	8 <sup>1</sup> / <sub>4</sub>	209.6	4 <sup>15</sup> / <sub>16</sub>	125.4
	1 <sup>7</sup> / <sub>8</sub>	47.6	6 <sup>5</sup> / <sub>8</sub>	168.3	9 <sup>1</sup> / <sub>4</sub>	235.0	5 <sup>7</sup> / <sub>16</sub>	138.1
	2 <sup>5</sup> / <sub>16</sub>	58.7	7 <sup>3</sup> / <sub>4</sub>	196.9	9 <sup>1</sup> / <sub>4</sub>	235.0	6	152.4
	2 <sup>7</sup> / <sub>8</sub>	73.0	8 <sup>1</sup> / <sub>2</sub>	215.9	9 <sup>1</sup> / <sub>4</sub>	235.0	6 <sup>7</sup> / <sub>16</sub>	163.5
<b>3</b>	0	0.0	3 <sup>1</sup> / <sub>2</sub>	88.9	7 <sup>1</sup> / <sub>4</sub>	184.2	4 <sup>1</sup> / <sub>8</sub>	104.8
	1	25.4	5 <sup>7</sup> / <sub>8</sub>	149.2	8 <sup>1</sup> / <sub>4</sub>	209.6	5 <sup>1</sup> / <sub>4</sub>	133.4
	1 <sup>9</sup> / <sub>16</sub>	39.7	7 <sup>1</sup> / <sub>4</sub>	184.2	9 <sup>1</sup> / <sub>4</sub>	235.0	5 <sup>3</sup> / <sub>4</sub>	146.1
	2 <sup>1</sup> / <sub>16</sub>	52.4	8 <sup>1</sup> / <sub>4</sub>	209.6	10 <sup>1</sup> / <sub>8</sub>	257.2	6 <sup>1</sup> / <sub>8</sub>	155.6
	2 <sup>9</sup> / <sub>16</sub>	65.1	9 <sup>3</sup> / <sub>8</sub>	238.1	10 <sup>1</sup> / <sub>8</sub>	257.2	6 <sup>3</sup> / <sub>4</sub>	171.5
	3 <sup>1</sup> / <sub>16</sub>	77.8	10 <sup>1</sup> / <sub>8</sub>	257.2	10 <sup>7</sup> / <sub>8</sub>	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
<b>3 1/2</b>	0	0.0	4	101.6	7 <sup>1</sup> / <sub>4</sub>	184.2	4 <sup>3</sup> / <sub>8</sub>	111.1
	1 <sup>1</sup> / <sub>4</sub>	31.8	6 <sup>5</sup> / <sub>8</sub>	168.3	9 <sup>1</sup> / <sub>4</sub>	235.0	5 <sup>7</sup> / <sub>16</sub>	138.1
	1 <sup>13</sup> / <sub>16</sub>	46.0	7 <sup>3</sup> / <sub>8</sub>	187.3	9 <sup>1</sup> / <sub>4</sub>	235.0	5 <sup>13</sup> / <sub>16</sub>	147.6
	2 <sup>1</sup> / <sub>4</sub>	57.2	8 <sup>5</sup> / <sub>8</sub>	219.1	10 <sup>1</sup> / <sub>8</sub>	257.2	6 <sup>3</sup> / <sub>8</sub>	161.9
	2 <sup>3</sup> / <sub>4</sub>	69.9	9 <sup>3</sup> / <sub>8</sub>	238.1	10 <sup>1</sup> / <sub>8</sub>	257.2	6 <sup>3</sup> / <sub>4</sub>	171.5
	3 <sup>5</sup> / <sub>16</sub>	84.1	10 <sup>3</sup> / <sub>4</sub>	273.1	10 <sup>7</sup> / <sub>8</sub>	276.2	7 <sup>3</sup> / <sub>8</sub>	187.3
<b>4</b>	0	0.0	4 <sup>1</sup> / <sub>2</sub>	114.3	8 <sup>1</sup> / <sub>4</sub>	209.6	4 <sup>1</sup> / <sub>2</sub>	114.3
	1 <sup>1</sup> / <sub>16</sub>	27.0	7 <sup>1</sup> / <sub>8</sub>	181.0	9 <sup>1</sup> / <sub>4</sub>	235.0	5 <sup>11</sup> / <sub>16</sub>	144.5
	1 <sup>9</sup> / <sub>16</sub>	39.7	8 <sup>1</sup> / <sub>8</sub>	206.4	10 <sup>1</sup> / <sub>8</sub>	257.2	6 <sup>1</sup> / <sub>16</sub>	154.0
	2 <sup>1</sup> / <sub>16</sub>	52.4	9 <sup>1</sup> / <sub>8</sub>	231.8	10 <sup>1</sup> / <sub>8</sub>	257.2	6 <sup>5</sup> / <sub>8</sub>	168.3
	2 <sup>9</sup> / <sub>16</sub>	65.1	10	254.0	10 <sup>1</sup> / <sub>8</sub>	257.2	7 <sup>1</sup> / <sub>16</sub>	179.4
	3 <sup>1</sup> / <sub>16</sub>	77.8	11 <sup>1</sup> / <sub>4</sub>	285.8	10 <sup>7</sup> / <sub>8</sub>	276.2	7 <sup>5</sup> / <sub>8</sub>	193.7
<b>5</b>	0	0.0	5 <sup>5</sup> / <sub>8</sub>	142.9	8 <sup>1</sup> / <sub>4</sub>	209.6	5 <sup>1</sup> / <sub>16</sub>	128.6
	1	25.4	8 <sup>1</sup> / <sub>4</sub>	209.6	10 <sup>1</sup> / <sub>8</sub>	257.2	6 <sup>1</sup> / <sub>8</sub>	155.6
	1 <sup>1</sup> / <sub>2</sub>	38.1	9 <sup>3</sup> / <sub>8</sub>	238.1	10 <sup>1</sup> / <sub>8</sub>	257.2	6 <sup>3</sup> / <sub>4</sub>	171.5
	2	50.8	10 <sup>3</sup> / <sub>8</sub>	263.5	10 <sup>7</sup> / <sub>8</sub>	276.2	7 <sup>1</sup> / <sub>8</sub>	181.0
	2 <sup>9</sup> / <sub>16</sub>	65.1	11 <sup>1</sup> / <sub>4</sub>	285.8	10 <sup>7</sup> / <sub>8</sub>	276.2	7 <sup>5</sup> / <sub>8</sub>	193.7
	3 <sup>1</sup> / <sub>16</sub>	77.8	12 <sup>3</sup> / <sub>8</sub>	314.3	10 <sup>7</sup> / <sub>8</sub>	276.2	8 <sup>1</sup> / <sub>8</sub>	206.4
<b>6</b>	0	0.0	6 <sup>5</sup> / <sub>8</sub>	168.3	9 <sup>1</sup> / <sub>4</sub>	235.0	5 <sup>7</sup> / <sub>16</sub>	138.1
	1	25.4	9	228.6	10 <sup>1</sup> / <sub>8</sub>	257.2	6 <sup>9</sup> / <sub>16</sub>	166.7
	1 <sup>1</sup> / <sub>2</sub>	38.1	10 <sup>1</sup> / <sub>8</sub>	257.2	10 <sup>7</sup> / <sub>8</sub>	276.2	7	177.8
	2	50.8	11	279.4	10 <sup>7</sup> / <sub>8</sub>	276.2	7 <sup>1</sup> / <sub>2</sub>	190.5
	2 <sup>1</sup> / <sub>2</sub>	63.5	12 <sup>3</sup> / <sub>8</sub>	314.3	10 <sup>7</sup> / <sub>8</sub>	276.2	8 <sup>3</sup> / <sub>16</sub>	208.0
	3	76.2	13 <sup>1</sup> / <sub>2</sub>	342.9	10 <sup>7</sup> / <sub>8</sub>	276.2	8 <sup>5</sup> / <sub>8</sub>	219.1
<b>8</b>	0	0.0	8 <sup>5</sup> / <sub>8</sub>	219.1	10 <sup>1</sup> / <sub>8</sub>	257.2	6 <sup>3</sup> / <sub>8</sub>	161.9
	1 <sup>1</sup> / <sub>2</sub>	38.1	12	304.8	10 <sup>7</sup> / <sub>8</sub>	276.2	8	203.2
	2	50.8	13	330.2	10 <sup>7</sup> / <sub>8</sub>	276.2	8 <sup>9</sup> / <sub>16</sub>	217.5
	2 <sup>1</sup> / <sub>16</sub>	68.3	14 <sup>1</sup> / <sub>2</sub>	368.3	10 <sup>7</sup> / <sub>8</sub>	276.2	9 <sup>1</sup> / <sub>16</sub>	236.5
	3 <sup>1</sup> / <sub>8</sub>	79.4	15 <sup>3</sup> / <sub>8</sub>	390.5	10 <sup>7</sup> / <sub>8</sub>	276.2	9 <sup>13</sup> / <sub>16</sub>	249.2
	4 <sup>1</sup> / <sub>16</sub>	106.4	17 <sup>3</sup> / <sub>8</sub>	441.3	10 <sup>7</sup> / <sub>8</sub>	276.2	10 <sup>7</sup> / <sub>8</sub>	276.2

## Dimension Information for R22

Pipe Size	Pipe Covering Thickness		Actual O.D. of Pipe + Shield + Insulation		Dimension L		Dimension CL	
	in	mm	in	mm	in	mm	in	mm
6	0	0.0	6 <sup>5</sup> / <sub>8</sub>	168.3	9 <sup>5</sup> / <sub>16</sub>	236.5	7	177.8
	1	25.4	9	228.6				
	1 <sup>1</sup> / <sub>2</sub>	38.1	10 <sup>1</sup> / <sub>8</sub>	257.2				
	2	50.8	11	279.4				
	2 <sup>1</sup> / <sub>2</sub>	63.5	12 <sup>3</sup> / <sub>8</sub>	314.3				
	3	76.2	13 <sup>1</sup> / <sub>8</sub>	333.4				
	4 <sup>1</sup> / <sub>8</sub>	104.8	15 <sup>1</sup> / <sub>8</sub>	384.2				
8	0	0.0	8 <sup>5</sup> / <sub>8</sub>	219.1	10	254.0	7 <sup>15</sup> / <sub>16</sub>	201.6
	1 <sup>1</sup> / <sub>2</sub>	38.1	12	304.8				
	2	50.8	13	330.2				
	2 <sup>1</sup> / <sub>16</sub>	68.3	14 <sup>1</sup> / <sub>2</sub>	368.3				
	3 <sup>1</sup> / <sub>8</sub>	79.4	15 <sup>3</sup> / <sub>8</sub>	390.5				
	4 <sup>3</sup> / <sub>16</sub>	106.4	17 <sup>3</sup> / <sub>8</sub>	441.3				
	0	0.0	10 <sup>3</sup> / <sub>4</sub>	273.1				
1 <sup>9</sup> / <sub>16</sub>	39.7	14 <sup>1</sup> / <sub>2</sub>	368.3					
2 <sup>1</sup> / <sub>16</sub>	52.4	15 <sup>1</sup> / <sub>4</sub>	387.4					
2 <sup>9</sup> / <sub>16</sub>	65.1	16 <sup>1</sup> / <sub>4</sub>	412.8					
3 <sup>1</sup> / <sub>16</sub>	77.8	17 <sup>3</sup> / <sub>8</sub>	441.3					
4 <sup>1</sup> / <sub>16</sub>	103.2	19 <sup>1</sup> / <sub>2</sub>	495.3					
12	0	0.0	12 <sup>3</sup> / <sub>4</sub>	323.9	11 <sup>3</sup> / <sub>8</sub>	288.9	9 <sup>7</sup> / <sub>8</sub>	250.8
	1 <sup>9</sup> / <sub>16</sub>	39.7	16 <sup>1</sup> / <sub>8</sub>	409.6				
	2 <sup>1</sup> / <sub>16</sub>	52.4	17 <sup>1</sup> / <sub>4</sub>	438.2				
	2 <sup>5</sup> / <sub>8</sub>	66.7	18 <sup>1</sup> / <sub>4</sub>	463.6				
	3 <sup>1</sup> / <sub>16</sub>	77.8	19 <sup>1</sup> / <sub>4</sub>	489.0				
	4 <sup>1</sup> / <sub>8</sub>	104.8	20 <sup>3</sup> / <sub>8</sub>	517.5				
	14	0	0.0	14				
1 <sup>1</sup> / <sub>2</sub>		38.1	17 <sup>1</sup> / <sub>2</sub>	444.5				
2		50.8	18 <sup>5</sup> / <sub>8</sub>	473.1				
2 <sup>1</sup> / <sub>2</sub>		63.5	19 <sup>3</sup> / <sub>4</sub>	501.7				
3		76.2	20 <sup>5</sup> / <sub>8</sub>	523.9				
4		101.6	22 <sup>5</sup> / <sub>8</sub>	574.7				

## 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 <sup>3</sup> / <sub>4</sub>	323.9	11 <sup>3</sup> / <sub>8</sub>	288.9
	1 <sup>1</sup> / <sub>2</sub>	38.1	19 <sup>5</sup> / <sub>8</sub>	498.5				
	2	50.8	20 <sup>3</sup> / <sub>8</sub>	517.5				
	2 <sup>1</sup> / <sub>2</sub>	63.5	21 <sup>5</sup> / <sub>8</sub>	549.3				
	3	76.2	22 <sup>1</sup> / <sub>8</sub>	562.0				
	4	101.6	24 <sup>3</sup> / <sub>8</sub>	619.1				
	18	0	0.0	18				
1 <sup>1</sup> / <sub>2</sub>		38.1	21 <sup>5</sup> / <sub>8</sub>	549.3				
2		50.8	22 <sup>5</sup> / <sub>8</sub>	574.7				
2 <sup>1</sup> / <sub>2</sub>		63.5	23 <sup>1</sup> / <sub>4</sub>	590.6				
3		76.2	24 <sup>1</sup> / <sub>4</sub>	616.0				
4		101.6	26 <sup>5</sup> / <sub>8</sub>	676.3				
20		0	0.0	20	508.0	14 <sup>1</sup> / <sub>8</sub>	358.8	13 <sup>1</sup> / <sub>4</sub>
	1 <sup>1</sup> / <sub>2</sub>	38.1	23 <sup>1</sup> / <sub>4</sub>	590.6				
	2	50.8	24 <sup>1</sup> / <sub>2</sub>	622.3				
	2 <sup>1</sup> / <sub>2</sub>	63.5	25 <sup>1</sup> / <sub>2</sub>	647.7				
	3	76.2	26 <sup>5</sup> / <sub>8</sub>	676.3				
	4	101.6	28 <sup>1</sup> / <sub>4</sub>	717.6				
	24	0	0.0	24	609.6			
1 <sup>1</sup> / <sub>2</sub>		38.1	27	685.8				
2		50.8	28	711.2				
2 <sup>1</sup> / <sub>2</sub>		63.5	29 <sup>1</sup> / <sub>4</sub>	743.0				
3		76.2	30 <sup>1</sup> / <sub>2</sub>	774.7				
4		101.6	32 <sup>7</sup> / <sub>8</sub>	835.0				
30		0	0.0	30	762.0	15 <sup>7</sup> / <sub>8</sub>	403.2	16 <sup>1</sup> / <sub>4</sub>

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## Outside Diameters of Standard Pipes & Tubing

Schedule 40 & 80 Iron Pipe & PVC Schedule 5, 10, 40 & 80 Aluminum Schedule 5, 10, & 40 Stainless Steel			
Nominal Pipe Size		O.D.	
Inch	Metric	in	mm
1/8	3	0.405	10.3
1/4	6	0.540	13.7
3/8	10	0.675	17.1
1/2	15	0.840	21.3
3/4	20	1.050	26.7
1	25	1.315	33.4
1 1/4	32	1.660	42.2
1 1/2	40	1.900	48.3
2	50	2.375	60.3
2 1/2	65	2.875	73.0
3	80	3.500	88.9
3 1/2	90	4.000	101.6
4	100	4.500	114.3
4 1/2	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
1/2	15	0.600	15.2
3/4	20	0.856	21.7
1	25	1.140	29.0
1 1/4	32	1.420	36.1
1 1/2	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
3/8	10	0.577	14.7
1/2	15	0.706	17.9
3/4	20	0.922	23.4
1	25	1.163	29.5
1 1/4	32	1.510	38.4
1 1/2	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 Pipe			
Nominal Pipe Size		O.D.	
Inch	Metric	in	mm
1/4	6	0.375	9.5
3/8	10	0.500	12.7
1/2	15	0.625	15.9
5/8	17	0.750	19.1
3/4	20	0.875	22.2
1	25	1.125	28.6
1 1/4	32	1.375	34.9
1 1/2	40	1.625	41.3
2	50	2.125	54.0
2 1/2	65	2.625	66.7
3	80	3.125	79.4
3 1/2	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
1/2	15	0.750	19.1
3/4	20	1.000	25.4
1	25	1.312	33.3
1 1/2	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 Ductile Iron Pipe 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

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## 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

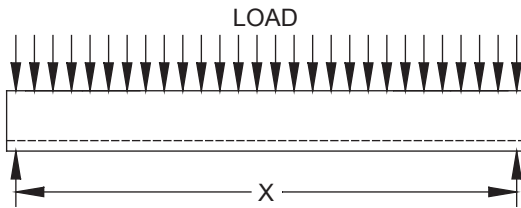
For beam clamps or other applications the following torque values from Manufacturer's Standardization Society (MSS) SP-69 are recommended unless otherwise specified.

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

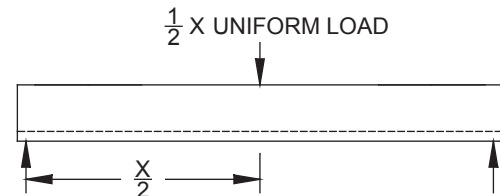
**Note:** Caution should be taken not to over tighten the set screw on iron beam clamps as this will cause distortion, a lower maximum load capability and possible breakage.

### 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 1/2 way between the supports, the point load rating will be 1/2 the uniform load rating. Load ratings are generally listed in pounds (lb.) or kilo Newtons (kN).



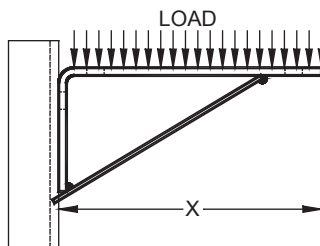
Uniform load



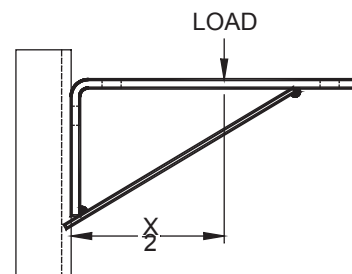
Point load

### 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 1/2 the total distance the load is spread over as shown in figure "B". This is calculated by multiplying 1/2 the distance "X", in inches or meters, by the load expressed in pounds or Newtons.



Cantilever load (Figure "A")



Cantilever load (Figure "B")

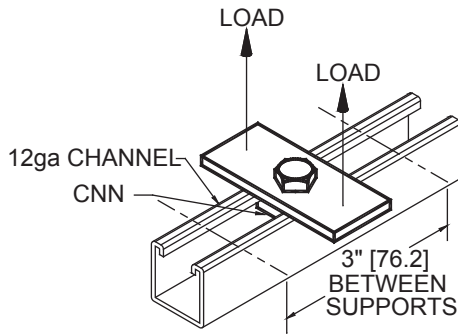
## General Information (cont.)

### Testing Methods for Strut Fittings:

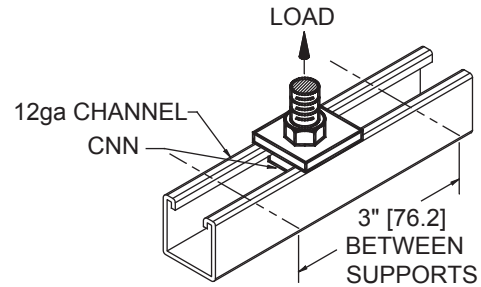
Fittings are tested for pull out of the channel by supporting the channel at 3" [76.2mm] spacing and applying a load perpendicular to the channel with the fitting attached according to the recommended methods and mounting torque as stated in MFMA Standards using channel meeting MFMA standards.

See page 79 for MFMA torque values.

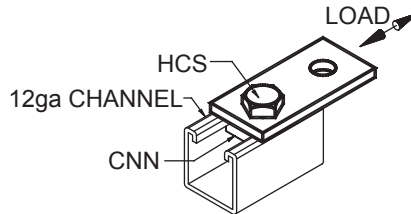
**Pullout Test with Load on Fitting.**



**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.

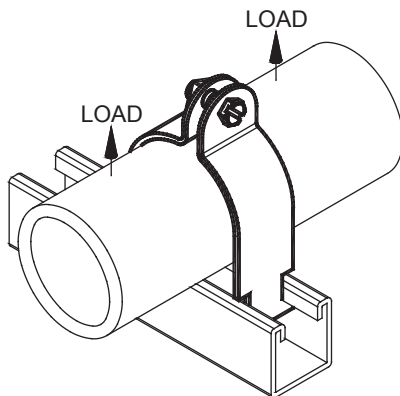


**Slip Test for Strut Fittings**

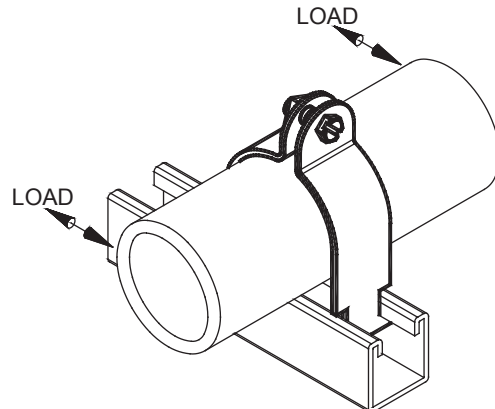
### Testing Methods for Strut Clamps:

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**





<b>Part</b>	<b>Description</b>	<b>Page</b>	<b>Part</b>	<b>Description</b>	<b>Page</b>
BC10	Beam Clamp Formed Steel	38	CNT	Channel Nut Top Spring	11
BC11	Beam Clamp Formed Steel with J-Hook	38	CNT [D]	Channel Nut Top Spring	12
BC12	Swivel Nut for use with BC10, BC11 and BC14	38	EC07, EC08, EC09	Plastic End Cap	54
BC13	Beam Clamp Anchor Strap	38	EC10	End Cap (1 <sup>1</sup> / <sub>8</sub> " 12 Ga. Channel)	54
BC14	Beam Clamp Swivel Adapter for BC10	38	EC11	End Cap (1 <sup>1</sup> / <sub>8</sub> " 14 Ga. Channel)	54
BC15	Formed Steel Beam Clamp	39	EC12	End Cap (1 <sup>3</sup> / <sub>16</sub> " 12 Ga. or 14 Ga. Channel)	54
BC16	Formed Steel Heavy Duty Beam Clamp	39	EF10	Hinged Fluorescent Fixture Hanger	55
BC17	Formed Steel Beam Clamp	39	EF11	Hinged Fluorescent Fixture Hanger	55
BC18	Formed Steel Heavy Duty Beam Clamp	39	EF12	Hinged Fluorescent Fixture Hanger	55
BC20, BC21	Strut to Beam Clamp C-Type	40	EF13	Hinged Fluorescent Fixture Hanger	55
BC22	Strut to Beam Clamp C-Type, Parallel	40	EF19	Fixture Stud Nut	56
BC23	Cable Tray Clamp	40	EF20	End Cap Knock Out with Hardware	56
BC24	Cable Tray Guide	40	EF21	Wiring Stud	56
BC30	Strut to Beam Clamp Z-Type	41	EF22	Conduit Connection Plate with Hardware	56
BC40	Strut to Beam Clamp Window Type	41	EF30	Channel Splice 4 Hole Assembly with Tapped Plate and Hardware	56
BC50	Strut to Beam Spreader Caps	41	EF31	Channel Splice 4 Hole Assembly with Stud Plate and Hardware	56
BC51	Strut to Beam Spreader Caps	41	EF33	Inside Strut Joiner for 1 <sup>3</sup> / <sub>16</sub> " or 1 <sup>1</sup> / <sub>2</sub> " channel	57
BC60	Strut to Beam Clamp with Square U-Bolt	42	EF40	Outlet Box Bolt Down with Hardware	57
BC61	Strut to Beam Clamp with Square U-Bolt	42	EF41	Junction Box Universal with 1 Connector	57
BC62	Strut to Beam Clamp with Square U-Bolt and J-Hook	42	EF42	Junction Box Universal with 2 Connectors at 90 Degrees	57
BC63	Strut to Beam Clamp with Square U-Bolt and J-Hook	42	EF43	Junction Box Universal with 2 Connectors Opposite	57
BC64	Strut to Beam Clamp with Square U-Bolts & Connecting Stud	43	EF44	Junction Box Universal with 3 Connectors	57
BC65	Strut to Beam Clamp with Square U-Bolts & Connecting Stud	43	EF45	Junction Box Universal with 4 Connectors	57
BC66	Strut to Beam Clamp with Square U-Bolt For 5" maximum	43	EF46	1/4" x 3/4" Carriage Bolt and 1/4" Wing Nut	57
BC68	Strut to Beam Clamp with Square U-Bolt For 6 1/2" maximum	43	F09 THRU F15	Square Washer	24
BC69	Strut to Beam Clamp with Square U-Bolt and J-Hook	44	F20 THRU F24	Notched Square Washer	24
BC70	Strut to Beam Clamp Notched Type	44	F30	2 Hole Splice Plate	24
BC80	Malleable Iron Universal Beam Clamp	45	F31	3 Hole Splice Plate	24
BC81	Wide Mouth Malleable Iron Universal Beam Clamp	45	F32	4 Hole Splice Plate	24
BC85	Malleable Iron C-clamp with lock nut	46	F33	5 Hole Splice Plate	25
BC86	Pressed Steel C-Clamp with Lock Nut	46	F34	2 Hole Parallel Splice Plate	25
BC90	Malleable Iron Rod Support Beam Clamp	46	F35	4 Hole Parallel Splice Plate	25
BC91	Malleable Iron Universal Beam Clamp	47	F40	2 Hole Swivel Plate	25
BC92	Light Duty Beam Clamp	47	F41	3 Hole Swivel Plate	25
BR20	Bracket 3 Hole	49	F50	3 Hole Corner Plate	25
BR21	Bracket 6 Hole	49	F51	4 Hole Corner Plate	26
BR22	Bracket with Brace 6 Hole	49	F52	3 Hole Corner Gusset Plate	26
BR30	Bracket for 1 5/8" Channel	49	F53	4 Hole Corner Gusset Plate	26
BR31	Bracket for 3 1/4" Channel	50	F54	5 Hole Corner Gusset Plate	26
BR40	Bracket Channel 1 5/8" Channel 2 Hole	50	F60	4 Hole Tee Plate	26
BR41	Bracket Channel Wrap Around 1 5/8" Channel	50	F61	3 Hole Tee Gusset Plate	26
BR42	Bracket Double 1 5/8" Channel	50	F62	4 Hole Tee Gusset Plate	27
BR43	Bracket Channel Notched, Up	51	F63	5 Hole Tee Gusset Plate	27
BR44	Bracket Channel Notched, Down	51	F70	5 Hole Cross Plate	27
BR45	Bracket Channel	51	F71	7 Hole Cross Gusset Plate	27
BR46	Bracket Channel 1 5/8" Channel 2 Hole Heavy	51	FW	Flat Washer	13
BR47	Ladder Bracket	52	HCS	Hex Head Cap Screw	13
BR50	Utility Pole Bracket – Extended Standoff	52	HN	Hex Nut	13
BR8L	Slotted Shelf Bracket (Left Hand)	48	L10	2 Hole No Twist Corner Angle	28
BR8R	Slotted Shelf Bracket (Right Hand)	48	L11	2 Hole Corner Angle	28
CCP	Cushioned Pipe Strut Clamp	18	L12	3 Hole Corner Angle	28
CCT	Cushioned Tubing Strut Clamp	18	L13	4 Hole Corner Angle	28
CI	Concrete Insert	54	L14	2 Hole 3" Corner Angle	28
CI20, CI21, CI22	Concrete End Cap Anchor	54	L15	2 Hole 3 1/2" Corner Angle	28
CIN	Concrete Insert Nut	54	L16	2 Hole 4" Corner Angle	29
CIT	Therma-shield Clamp	19	L20	2 Hole Cross Corner Angle	29
CLC, CLE	Clutch Clamp for Tube and EMT Conduit	19	L21	3 Hole Corner Angle	29
CNC	Channel Cone Nut	11	L22	3 Hole Cross Gusset Corner Angle	29
CND	Channel Stud Nut Regular Spring	11	L23	5 Hole Cross Gusset Corner Angle	29
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