

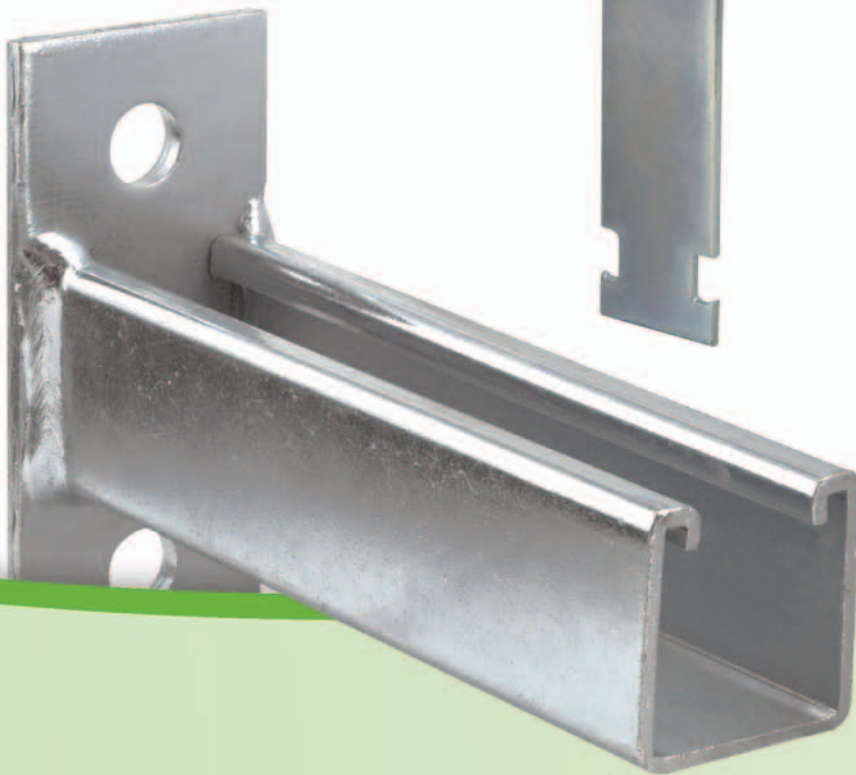


PHOENIX

SUPPORT SYSTEMS



Made in USA



ENGINEERING CATALOG

10.12.2



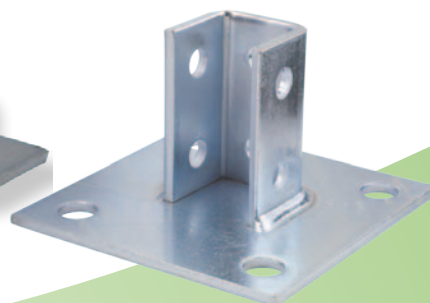
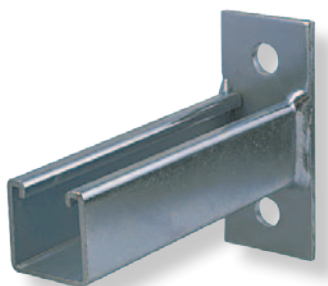
PHOENIX

SUPPORT SYSTEMS



U.S. Manufacturer of Strut Fittings, Accessories, and Specialty Supports

- Over 100 Years Of Collective Industry Experience
- Domestic Products That Compete With Import Pricing
- Manufacture And Maintain Significant Inventory Of Type 304 And 316 Stainless Steel And Aluminum Strut Clamps And Fittings
- Extensive Inventory On The Ground, In The U.S., Not Impacted By Delays Overseas
- Same Day Or Next Day Shipping On Orders From Stock
- Rapid Turnaround On Custom Orders And Made To Specification Material
- Flexibility To Change Our Processes To Meet Our Customer's Needs
- Unmatched Customer Service And Support From Quotation To Order Fulfillment
- Expert Quality Control And Engineering Staff
- Continuously Adding To Our Offering To Meet Needs Of The Industry
- Manufacture And Inventory Parts In Standard And Specialty Finishes Such As:
 - Electro-Galvanized
 - NEW – Yellow Chromate
 - Hot-Dipped Galvanized
 - Powder Coated Green
 - Epoxy
 - Copper Chromate
 - Custom Colors Available Upon Request



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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

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. This is the standard coating for most Phoenix products. The thickness of zinc applied in this method is between 0.2 mils to 0.5 mils [5.1 µm to 12.7 µm]. Coatings on Phoenix products labeled EG meet ASTM B633 SC3 Type I.

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. Coatings on Phoenix products labeled HD meet ASTM A123. The zinc coating thickness is typically 2.6 mils [66.0 µm] or 1.5 oz. per square foot [0.46 kg per square meter] per side.

YC – Yellow Zinc Dichromate

A 0.5 mil [12.7 µm] electro-galvanized zinc plating meeting ASTM B633 SC3 Type I is applied to the surface of the metal. Yellow Dichromate is applied over the zinc. This results in a yellowish gold appearance and acts as a nonporous barrier sealant that is corrosion resistant and can be painted.

CP – Copper Zinc Dichromate

A 0.5 mil [12.7 µm] electro-galvanized zinc plating meeting ASTM B633 SC3 Type I is applied to the surface of the metal. Copper Zinc Dichromate is applied over the zinc. This results in a copper colored appearance and acts as a nonporous barrier sealant that does not react adversely with copper pipe or tubing.

GR – 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

Domestic Channel Nuts



PHOENIX
SUPPORT SYSTEMS

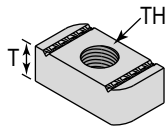
Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

CNN [D]

Channel Nut No Spring

For all channel sizes except as noted



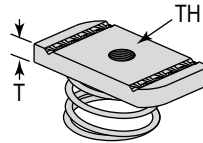
Catalog Number	Thread Size	T		Wt. lbs
		in	mm	
CNN2D025EG	1/4"-20	0.25	6.3	0.061
CNN3D031EG	5/16"-18	0.37	9.4	0.096
CNN3D037EG	3/8"-16	0.37	9.4	0.084
CNN3D050EG	1/2"-13	0.37	9.4	0.076
CNN30M10EG	M10	0.37	9.4	0.076
*CNN4D050EG	1/2"-13	0.50	12.7	0.108
*CNN40M12EG	M12	0.50	12.7	0.108
CNN3D062EG	5/8"-11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

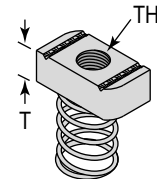


Catalog Number	Thread Size	T		Wt. lbs
		in	mm	
CNS2D025EG	1/4"-20	0.25	6.3	0.068
CNS2D031EG	5/16"-18	0.25	6.3	0.068
CNS3D031EG	5/16"-18	0.37	9.4	0.092
CNS2D037EG	3/8"-16	0.25	6.3	0.070
CNS3D037EG	3/8"-16	0.37	9.4	0.088
CNS3D050EG	1/2"-13	0.37	9.4	0.087
CNS3D062EG	5/8"-11	0.37	9.4	0.104

CNR [D]

Channel Nut Regular Spring

For 13/8" & 15/8" channel

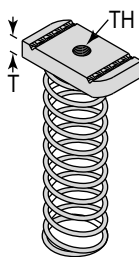


Catalog Number	Thread Size	T		Wt. lbs
		in	mm	
CNR2D025EG	1/4"-20	0.25	6.3	0.072
CNR2D031EG	5/16"-18	0.25	6.3	0.072
CNR3D031EG	5/16"-18	0.37	9.4	0.093
CNR2D037EG	3/8"-16	0.25	6.3	0.066
CNR3D037EG	3/8"-16	0.37	9.4	0.093
CNR30M10EG	M10	0.37	9.4	0.093
CNR3D050EG	1/2"-13	0.37	9.4	0.084
CNR40M12EG	M12	0.50	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

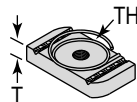


Catalog Number	Thread Size	T		Wt. lbs
		in	mm	
CNL3D025EG	1/4"-20	0.25	6.3	0.68
CNL3D037EG	3/8"-16	0.37	9.4	0.10
CNL4D050EG	1/2"-13	0.50	12.7	0.11

CNT [D]

Channel Nut Top Spring

For all channel sizes except as noted



Catalog Number	Thread Size	T		Wt. lbs
		in	mm	
CNT3D025EG	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



Channel Nuts

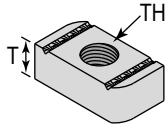
Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

CNN

Channel Nut No Spring

For all channel sizes except as noted



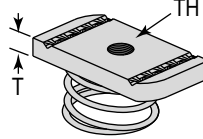
Catalog Number	Thread Size	T		Wt. lbs
		in	mm	
CNN20010EG	10-24	0.25	6.3	0.096
CNN20025EG	1/4"-20	0.25	6.3	0.096
CNN30031EG	5/16"-18	0.37	9.4	0.096
CNN30037EG	3/8"-16	0.37	9.4	0.084
CNN30050EG	1/2"-13	0.37	9.4	0.076
*CNN40050EG	1/2"-13	0.50	12.7	0.108
CNN30062EG	5/8"-11	0.37	9.4	0.097
*CNN40062EG	5/8"-11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

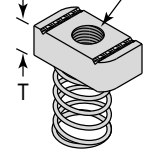


Catalog Number	Thread Size	T		Wt. lbs
		in	mm	
CNS20010EG	10-24	0.25	6.3	0.060
CNS20025EG	1/4"-20	0.25	6.3	0.068
CNS20031EG	5/16"-18	0.25	6.3	0.068
CNS30031EG	5/16"-18	0.37	9.4	0.092
CNS20037EG	3/8"-16	0.25	6.3	0.06
CNS30037EG	3/8"-16	0.37	9.4	0.088
CNS30050EG	1/2"-13	0.37	9.4	0.087
CNS30062EG	5/8"-11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

CNR

Channel Nut Regular Spring

For 13/8" & 15/8" channel

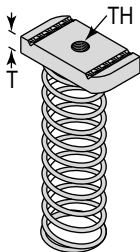


Catalog Number	Thread Size	T		Wt. lbs
		in	mm	
CNR20025EG	1/4"-20	0.25	6.3	0.072
CNR20031EG	5/16"-18	0.25	6.3	0.072
CNR20010EG	10-24	0.25	6.3	0.066
CNR30031EG	5/16"-18	0.37	9.4	0.0925
CNR20037EG	3/8"-16	0.25	6.3	0.066
CNR30037EG	3/8"-16	0.37	9.4	0.093
CNR30050EG	1/2"-13	0.37	9.4	0.084
CNR40050EG	1/2"-13	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

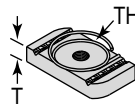


Catalog Number	Thread Size	T		Wt. lbs
		in	mm	
CNL30025EG	1/4"-20	0.25	6.3	0.10
CNL30037EG	3/8"-16	0.37	9.4	0.10
CNL40050EG	1/2"-13	0.50	12.7	0.11

CNT

Channel Nut Top Spring

For all channel sizes except as noted



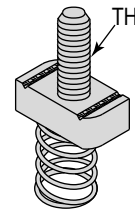
Catalog Number	Thread Size	T		Wt. lbs
		in	mm	
CNT30025EG	1/4"-20	0.25	6.3	0.093
CNT30037EG	3/8"-16	0.37	9.4	0.093
CNT30050EG	1/2"-13	0.37	9.4	0.092
*CNT40050EG	1/2"-13	0.50	12.7	0.101

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

CND

Channel Stud Nut Regular Spring

For 13/8" & 15/8" channel



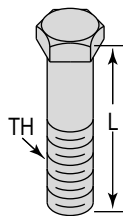
Catalog Number	Thread Size	Stud Length		Wt. lbs
		in	mm	
CND25100EG	1/4"-20	1"	25.4	.08
CND25137EG	1/4"-20	13/8"	34.9	.09
CND25150EG	1/4"-20	11/2"	38.1	.09
CND37100EG	3/8"-16	1"	25.4	.13
CND37112EG	3/8"-16	11/8"	28.6	.13
CND37125EG	3/8"-16	11/4"	31.8	.14
CND37150EG	3/8"-16	11/2"	38.1	.15
CND37162EG	3/8"-16	15/8"	41.3	.16
CND37212EG	3/8"-16	21/8"	54.0	.16
CND50100EG	1/2"-13	1"	25.4	.14
CND50125EG	1/2"-13	11/4"	31.8	.15
CND50150EG	1/2"-13	11/2"	38.1	.17
CND50200EG	1/2"-13	2"	50.8	.19

Hardware

Standard finish is Zinc Electroplate.
See page one for a listing of product finishes and materials.

HCS

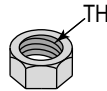
Hex Head Cap Screw



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

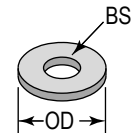
Hex Nut



Catalog Number	Thread Size	Wt. lbs
HN0025EG	1/4"-20	0.001
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

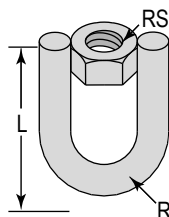
Flat Washer



Catalog Number	BS OD	in	mm	Wt. lbs
FW0025EG	1/4"	3/4"	19.0	0.001
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

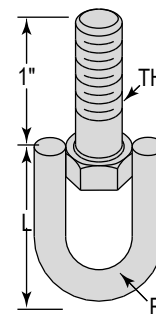
Swivel Female



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



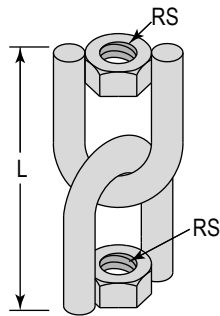
Catalog Number	Wt. Lbs	TH	L		R		Design Load	
			in	mm	in	mm	lbs	kN
SW110037EG	0.15	3/8"-16	1 3/4	44.4	1/4	6.3	620	2.76
SW110050EG	0.20	1/2"-13	2	50.8	3/8	9.4	1150	5.12

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

SW12

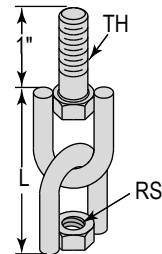
Swivel Female – Female



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

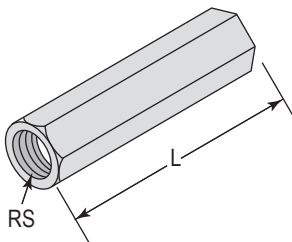
Swivel Male – Female



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	1 1/16"	.12

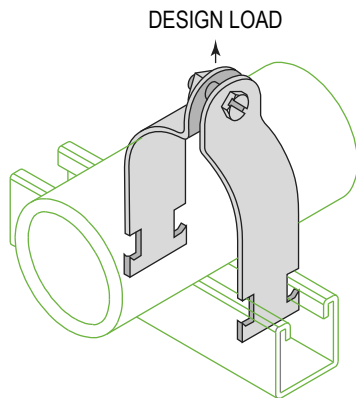
Strut Clamps

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

SCR

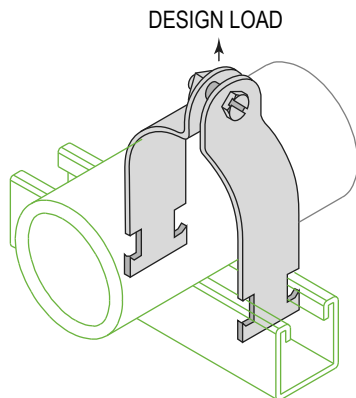
Rigid Strut Clamp



Catalog Number	Pipe Size		O.D.		Design Load		Wt. lbs
	in	mm	in	mm	lbs	kN	
SCR0025EG	1/4	6	0.540	13.7	400	1.78	0.09
SCR0037EG	3/8	10	0.675	17.1	400	1.78	0.09
SCR0050EG	1/2	15	0.840	21.3	400	1.78	0.10
SCR0075EG	3/4	20	1.050	26.7	600	2.67	0.13
SCR0100EG	1	25	1.315	33.4	600	2.67	0.15
SCR0125EG	1 1/4	32	1.660	42.2	600	2.67	0.17
SCR0150EG	1 1/2	40	1.900	48.3	800	3.56	0.29
SCR0200EG	2	50	2.375	60.3	800	3.56	0.33
SCR0250EG	2 1/2	65	2.875	73.0	800	3.56	0.39
SCR0300EG	3	80	3.500	88.9	800	3.56	0.43
SCR0350EG	3 1/2	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	1/2	15	0.773	19.6	400	1.78	0.10
SCU0075EG	3/4	20	0.986	25	600	2.67	0.13
SCU0100EG	1	25	1.239	31.5	600	2.67	0.15
SCU0125EG	1 1/4	32	1.585	40.3	600	2.67	0.17
SCU0150EG	1 1/2	40	1.820	45.7	800	3.56	0.29
SCU0200EG	2	50	2.286	58.1	800	3.56	0.34

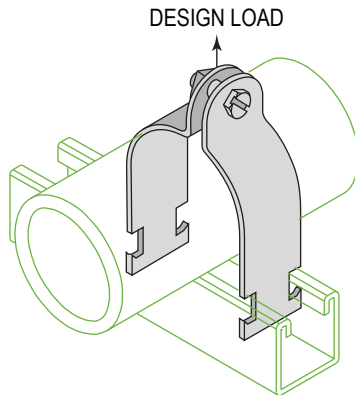
* These clamps are designed to fit both pipe (rigid conduit) and thin walled tubing (EMT) in the corresponding sizes.

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

SCE

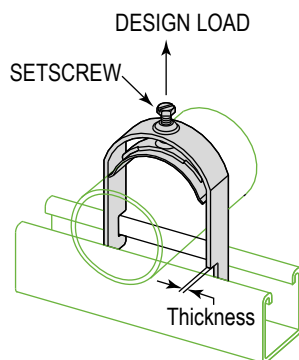
EMT Strut Clamp



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

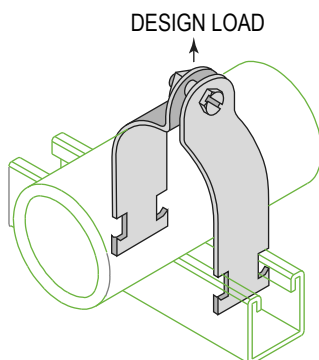
One Piece Universal Strut Clamps



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 (page4).

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

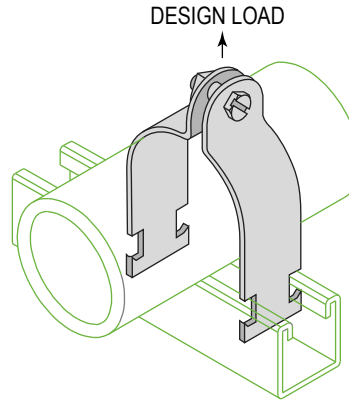
Strut Clamps

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

SCO

O.D. Strut Clamp



Catalog Number	Size O.D.			Design Load		Wt. lbs
	in		mm	lbs	kN	
SCO0025EG	¼	0.250	6.4	400	1.78	0.08
SCO0037EG	⅜	0.375	9.5	400	1.78	0.08
SCO0050EG	½	0.500	12.7	400	1.78	0.08
SCO0062EG	⅝	0.625	15.9	400	1.78	0.09
SCO0075EG	¾	0.750	19.0	400	1.78	0.10
SCO0087EG	⅞	0.875	22.3	400	1.78	0.11
SCO0100EG	1	1.000	25.4	600	2.67	0.14
SCO0112EG	1⅛	1.125	28.6	600	2.67	0.15
SCO0125EG	1¼	1.250	31.8	600	2.67	0.16
SCO0137EG	1⅜	1.375	34.9	600	2.67	0.16
SCO0150EG	1½	1.500	38.1	600	2.67	0.16
SCO0162EG	1⅝	1.625	41.3	600	2.67	0.17
SCO0175EG	1¾	1.750	44.5	800	3.56	0.28
SCO0187EG	1⅞	1.875	47.6	800	3.56	0.28
SCO0200EG	2	2.000	50.8	800	3.56	0.29
SCO0212EG	2⅛	2.125	54.0	800	3.56	0.31
SCO0225EG	2¼	2.250	57.2	800	3.56	0.31
SCO0237EG	2⅜	2.375	60.3	800	3.56	0.33
SCO0250EG	2½	2.500	63.5	800	3.56	0.34
SCO0262EG	2⅝	2.625	66.7	800	3.56	0.35
SCO0275EG	2¾	2.750	69.9	800	3.56	0.33
SCO0287EG	2⅞	2.875	73.0	800	2.56	0.38
SCO0300EG	3	3.000	76.2	800	3.56	0.38
SCO 0312EG	3⅛	3.125	79.4	800	3.56	0.39
SCO 0325EG	3¼	3.250	82.6	800	3.56	0.41

Catalog Number	Size O.D.			Design Load		Wt. lbs
	in		mm	lbs	kN	
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	800	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	4⅛	4.125	104.8	1000	4.45	0.59
SCO 0425EG	4¼	4.250	108.0	1000	4.45	0.60
SCO 0437EG	4⅜	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	5⅛	5.125	130.2	1000	4.45	0.71
SCO 0525EG	5¼	5.250	133.4	1000	4.45	0.73
SCO 0537EG	5⅝	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	6⅛	6.125	155.6	1000	4.45	0.77
SCO 0625EG	6¼	6.250	158.8	1000	4.45	0.83
SCO 0637EG	6⅝	6.375	161.9	1000	4.45	0.98

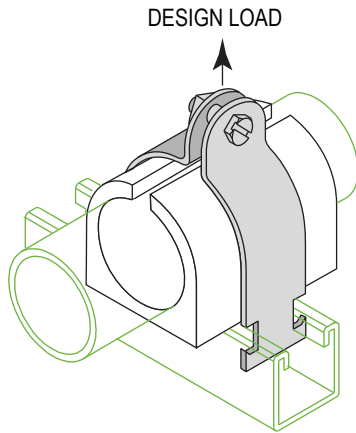
Catalog Number	Size O.D.		Design Load		Wt. lbs	
	in	mm	lbs	kN		
SCO 0650EG	6½	6.500	165.1	1000	4.45	0.85
SCO 0662EG	6⅝	6.625	168.3	1000	4.45	0.85
SCO 0675EG	6¾	6.750	171.5	1000	4.45	0.86
SCO 0687EG	6⅞	6.875	174.6	1000	4.45	0.88
SCO 0700EG	7	7.000	177.8	1000	4.45	0.92
SCO 0712EG	7⅛	7.125	181.0	1000	4.45	0.91
SCO 0725EG	7¼	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	8⅛	8.125	206.4	1000	4.45	0.99
SCO 0825EG	8¼	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	196.9	1000	4.45	1.11
SCO 0887EG	8⅞	8.875	200.0	1000	4.45	1.08
SCO 0900EG	9	9.000	228.6	1000	4.45	1.02
SCO 1137EG	11⅜	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.

Standard Finish Yellow Zinc Dichromate
 See page one for a listing of product finishes and materials.

CCT

Cushioned Tubing Strut Clamp

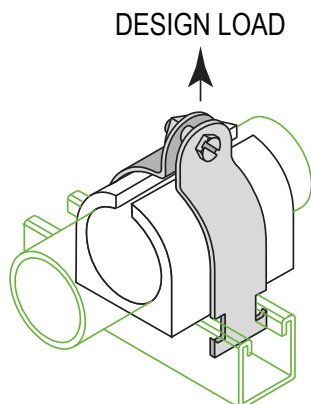


Catalog Number	Pipe Size O.D.			Wt. lbs
	in	in	mm	
CCT 0025YC	1/4	0.250	6.4	0.11
CCT 0037YC	3/8	0.375	9.5	0.12
CCT 0050YC	1/2	0.500	12.7	0.13
CCT 0062YC	5/8	0.625	15.9	0.15
CCT 0075YC	3/4	0.750	19.0	0.14
CCT 0087YC	7/8	0.875	22.3	0.21
CCT 0100YC	1	1.000	25.4	0.22
CCT 0112YC	1 1/8	1.125	28.6	0.24
CCT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

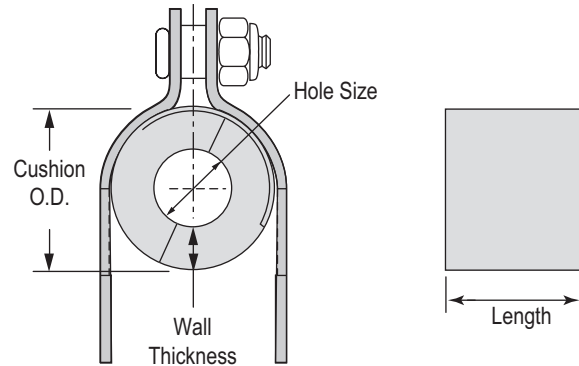
See page one for a listing of product finishes and materials.

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
- 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



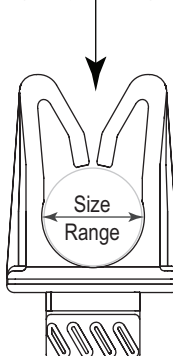
Dimensions (Inches)					Nominal 1/2" Wall Thickness		Nominal 3/4" Wall Thickness		Nominal 1" Wall Thickness		Nominal 1 1/2" Wall Thickness		Nominal 2" Wall Thickness	
Hole Size	Copper I.D.	Pipe O.D.	IPS	Length	Part No.	Cushion O.D.	Part No.	Cushion O.D.	Part No.	Cushion O.D.	Part No.	Cushion O.D.	Part 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 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			

Standard finish is Zinc Electroplate.

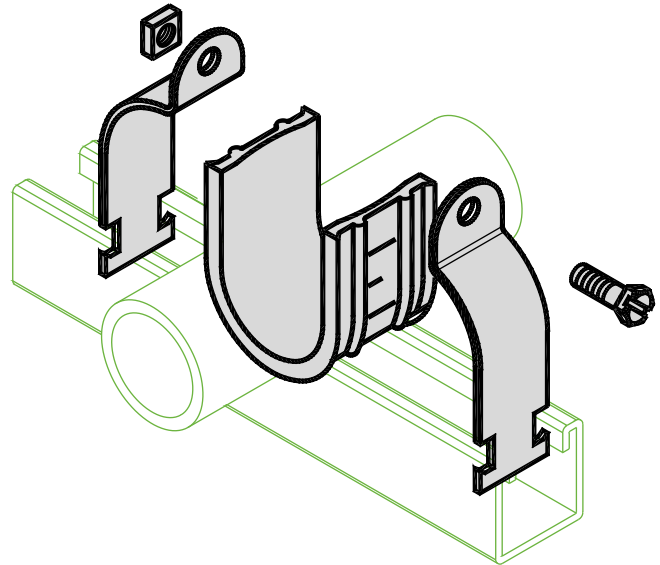
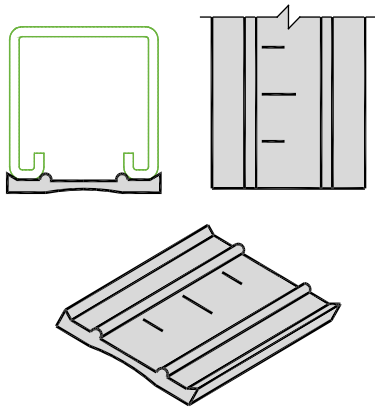
See page one for a listing of product finishes and materials.

PW 2500EP

Cushioned Pipe Wrap

Sold In 25 Foot Rolls

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



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

IRON PIPE OR RIGID CONDUIT

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

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.

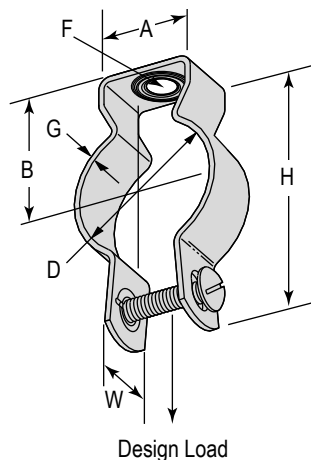
Conduit Clamps

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

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

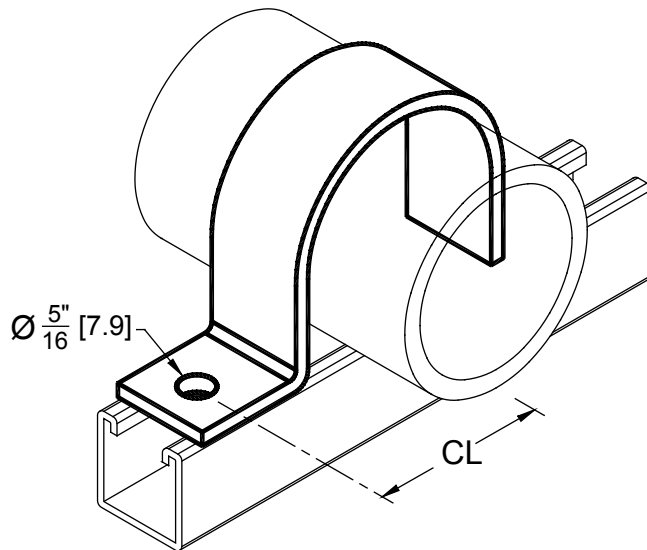
*Finish is Copper Plate

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

TC1

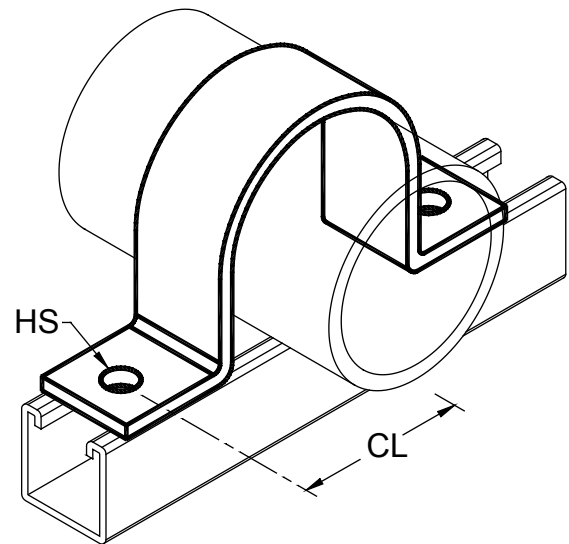
O.D. Tubing Clamp



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	9/32	7.9	15/16	23.8
PS2 0075EG	0.26	3/4	20	9/32	7.9	1	25.4
PS2 0100EG	0.29	1	25	9/32	7.9	1 1/8	28.6
PS2 0125EG	0.34	1 1/4	32	9/32	7.9	1 5/16	33.3
PS2 0150EG	0.37	1 1/2	40	9/32	7.9	1 7/16	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

Flat Fittings



PHOENIX
SUPPORT SYSTEMS

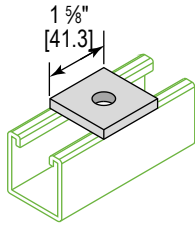
Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

Note: may also be available with $\frac{7}{16}$ " holes

F09 THRU F15

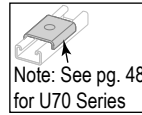
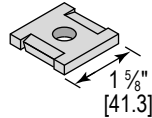
Square Washer



Catalog Number	Wt. lbs	Bolt Size		Hole Size	
		in	mm	in	mm
F10 0025EG	.18	1/4	6	5/16	7.9
F09 0031EG	.17	5/16	7	3/8	9.5
F11 0037EG	.17	3/8	8	7/16	11.1
F12 0050EG	.15	1/2	12	9/16	14.3
F13 0062EG	.15	5/8	16	11/16	17.5
F14 0075EG	.14	3/4	20	13/16	20.6
F15 0087EG	.13	7/8	22	15/16	23.8

F20 THRU F24

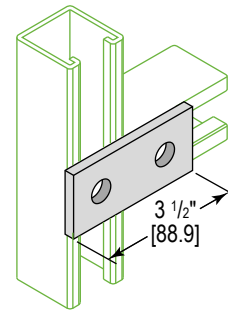
Notched Square Washer



Catalog Number	Wt. lbs	Bolt Size	
		in	mm
F20 0025EG	.17	1/4	6
F21 0037EG	.17	3/8	8
F22 0050EG	.16	1/2	12
F23 0062EG	.15	5/8	16
F24 0075EG	.14	3/4	20

F30

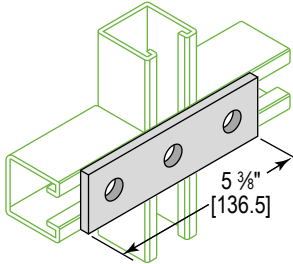
2 Hole Splice Plate



Catalog Number: F30 0000EG
Weight: 0.34 Lbs

F31

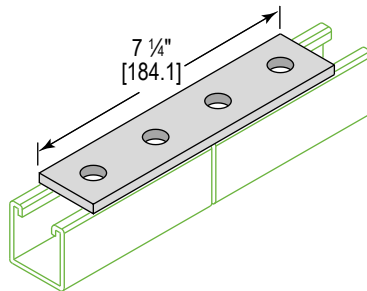
3 Hole Splice Plate



Catalog Number: F31 0000EG
Weight: 0.54 Lbs.

F32

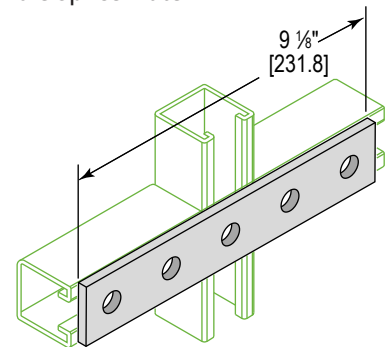
4 Hole Splice Plate



Catalog Number: F32 0000EG
Weight: 0.7 Lbs.

F33

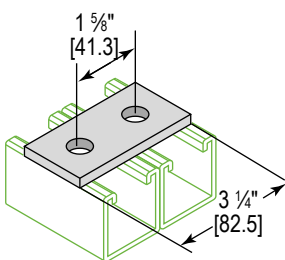
5 Hole Splice Plate



Catalog Number: F33 0000EG
Weight: 0.93 Lbs.

F34

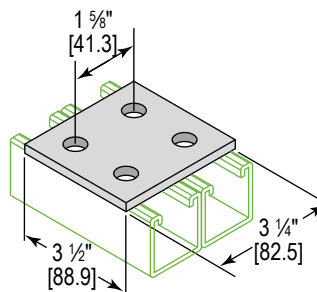
2 Hole Parallel Splice Plate



Catalog Number: F34 0000EG
Weight: 0.31 Lbs.

F35

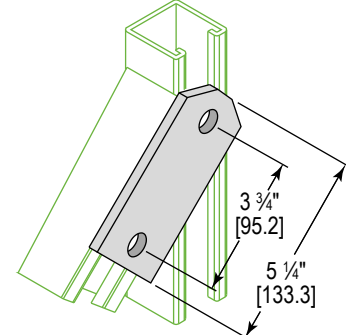
4 Hole Parallel Splice Plate



Catalog Number: F35 0000EG
Weight: 0.76 Lbs.

F40

2 Hole Swivel Plate



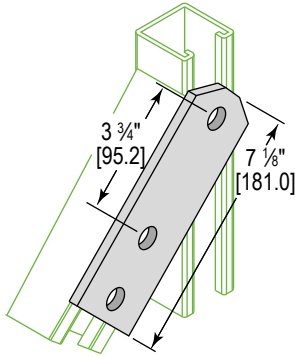
Catalog Number: F40 0000EG
Weight: 0.52 Lbs.

Material is $\frac{1}{8}$ " [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 $\frac{1}{8}$ " [47.6] centers unless specified.

Standard finish is Zinc Electroplate.
 See page one for a listing of product finishes and materials.
 Note: may also be available with $\frac{7}{16}$ " holes

F41

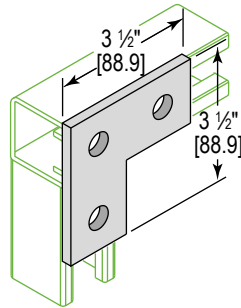
3 Hole Swivel Plate



Catalog Number: F41 0000EG
 Weight: 0.53 Lbs.

F50

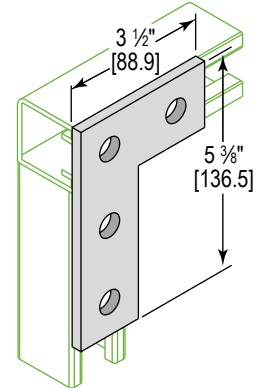
3 Hole Corner Plate



Catalog Number: F50 0000EG
 Weight: 0.6 Lbs.

F51

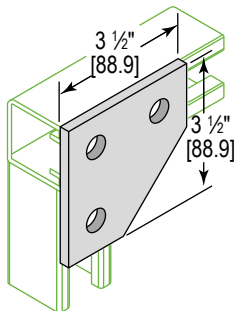
4 Hole Corner Plate



Catalog Number: F51 0000EG
 Weight: 0.71 Lbs.

F52

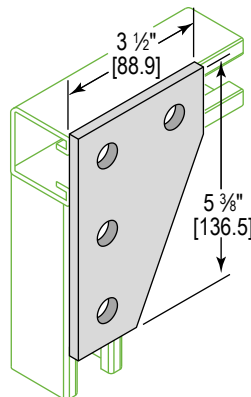
3 Hole Corner Gusset Plate



Catalog Number: F52 0000EG
 Weight: 0.65 Lbs.

F53

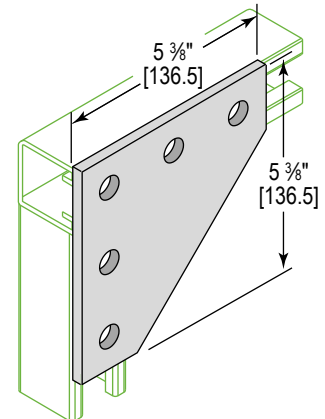
4 Hole Corner Gusset Plate



Catalog Number: F53 0000EG
 Weight: 0.95 Lbs.

F54

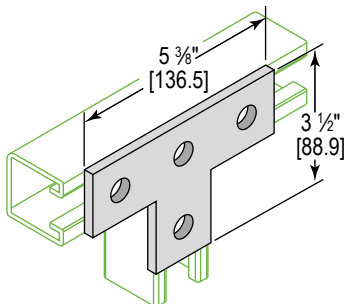
5 Hole Corner Gusset Plate



Catalog Number: F54 0000EG
 Weight: 0.95 Lbs.

F60

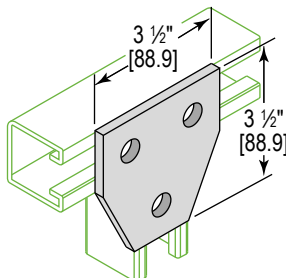
4 Hole Tee Plate



Catalog Number: F60 0000EG
 Weight: 0.70 Lbs.

F61

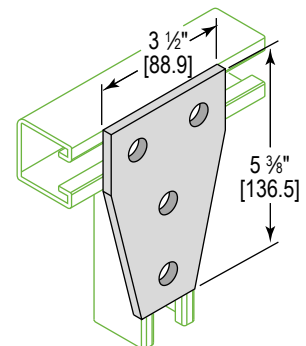
3 Hole Tee Gusset Plate



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

F62

4 Hole Tee Gusset Plate



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

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.

Flat Fittings

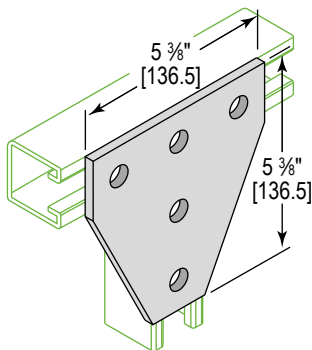
Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

Note: may also be available with $\frac{7}{16}$ " holes

F63

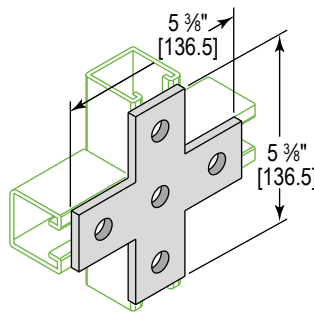
5 Hole Tee Gusset Plate



Catalog Number: F63 0000EG
Weight: 1.39 Lbs.

F70

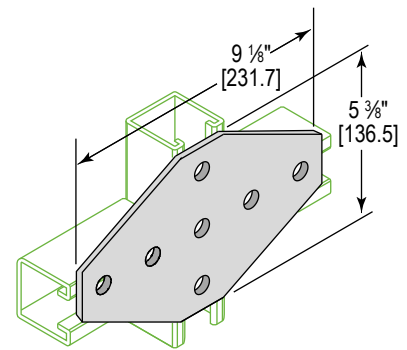
5 Hole Cross Plate



Catalog Number: F70 0000EG
Weight: 0.95 Lbs.

F71

7 Hole Cross Gusset Plate

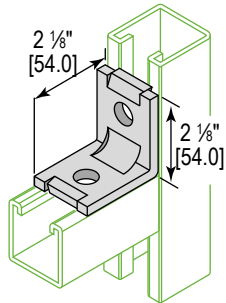


Catalog Number: F71 0000EG
Weight: 2.32 Lbs.

Standard finish is Zinc Electroplate.
See page one for a listing of product finishes and materials.
Note: may also be available with $\frac{7}{16}$ " holes

L10

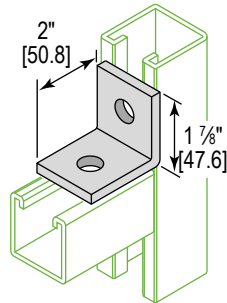
2 Hole No Twist Corner Angle



Catalog Number: L10 0000EG
Weight: 0.36 Lbs.

L11

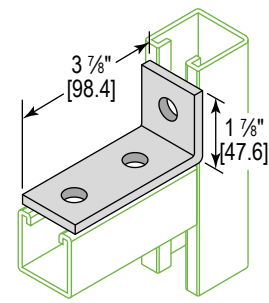
2 Hole Corner Angle



Catalog Number: L11 0000EG
Weight: 0.36 Lbs.

L12

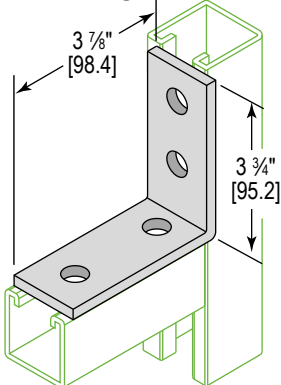
3 Hole Corner Angle



Catalog Number: L12 0000EG
Weight: 0.40 Lbs.

L13

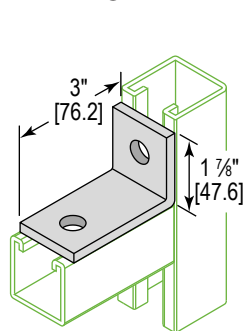
4 Hole Corner Angle



Catalog Number: L13 0000EG
Weight: 0.76 Lbs.

L14

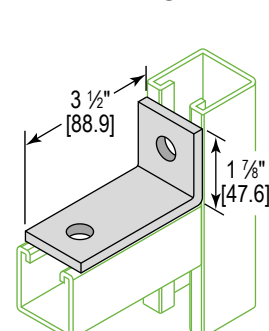
2 Hole 3" Corner Angle



Catalog Number: L14 0000EG
Weight: 0.45 Lbs.

L15

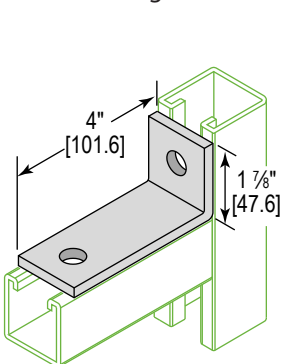
2 Hole 3 1/2" Corner Angle



Catalog Number: L15 0000EG
Weight: 0.51 Lbs.

L16

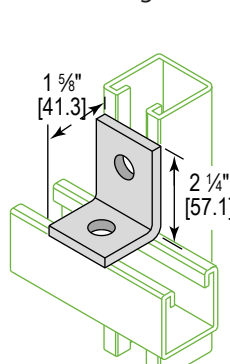
2 Hole 4" Corner Angle



Catalog Number: L16 0000EG
Weight: 0.54 Lbs.

L20

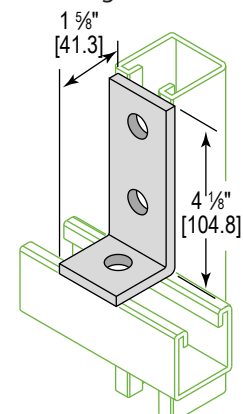
2 Hole Cross Corner Angle



Catalog Number: L20 0000EG
Weight: 0.34 Lbs.

L21

3 Hole Corner Angle



Catalog Number: L21 0000EG
Weight: 0.52 Lbs.

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

Angle Fittings



PHOENIX
SUPPORT SYSTEMS

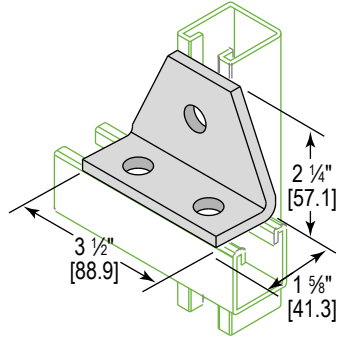
Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

Note: may also be available with $\frac{7}{16}$ " holes

L22

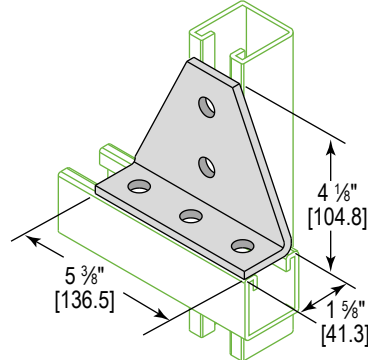
3 Hole Cross Gusset Corner Angle



Catalog Number: L22 0000EG
Weight: 0.65 Lbs.

L23

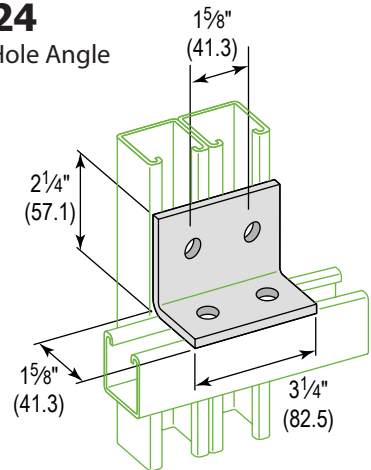
5 Hole Cross Gusset Corner Angle



Catalog Number: L23 0000EG
Weight: 1.4 Lbs.

L24

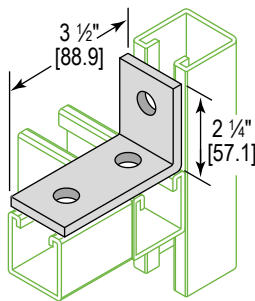
4 Hole Angle



Catalog Number: L24 0000EG
Weight: 0.75 Lbs.

L30

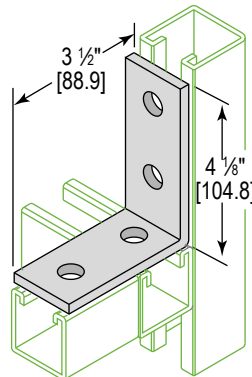
3 Hole 3 Way Corner Angle



Catalog Number: L30 0000EG
Weight: 0.52 Lbs.

L31

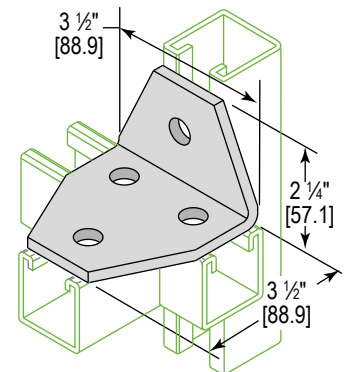
4 Hole 3 Way Corner Angle



Catalog Number: L31 0000EG
Weight: 0.71 Lbs.

L32

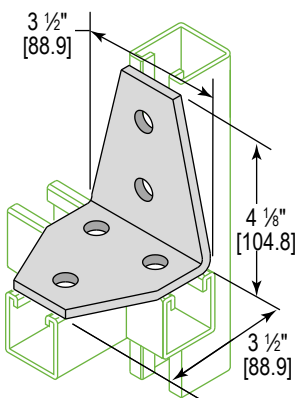
4 Hole 3 Way Gusset Corner Angle



Catalog Number: L32 0000EG
Weight: 0.96 Lbs.

L33

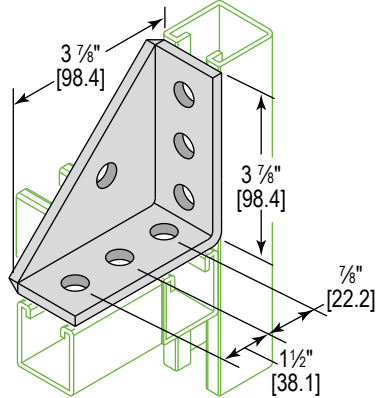
5 Hole 3 Way Gusset Corner Angle



Catalog Number: L33 0000EG
Weight: 1.27 Lbs.

L34

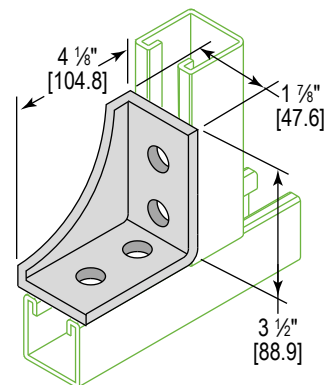
7 Hole Universal Gusset Corner Angle



Catalog Number: L34 0000EG
Weight: 1.51 Lbs.

L35

4 Hole Gusset Corner Angle Left



Catalog Number: L35 0000EG
Weight: 1.15 Lbs.

Material is $\frac{15}{16}$ " [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.

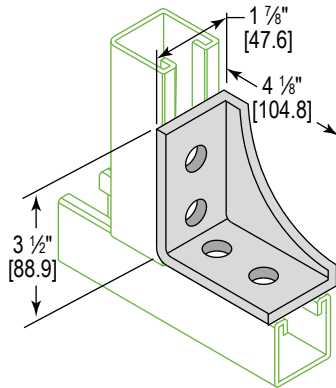
Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

Note: may also be available with $\frac{7}{16}$ " holes

L36

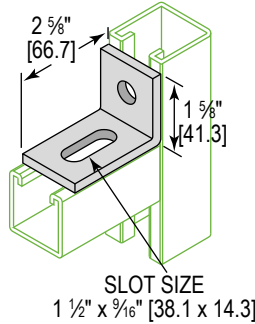
4 Hole Gusset Corner Angle Right



Catalog Number: L36 0000EG
Weight: 1.2 Lbs.

L40

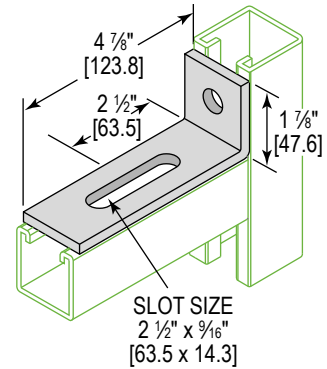
2 Hole $2\frac{5}{8}$ " Adjustable Corner Angle



Catalog Number: L40 0000EG
Weight: 0.35 Lbs.

L41

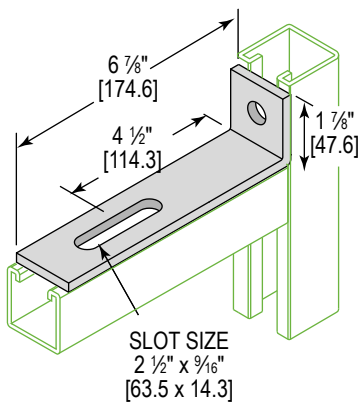
2 Hole $4\frac{7}{8}$ " Adjustable Corner Angle



Catalog Number: L41 0000EG
Weight: 0.58 Lbs.

L42

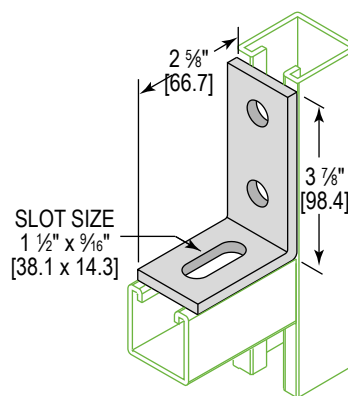
2 Hole $6\frac{7}{8}$ " Adjustable Corner Angle



Catalog Number: L42 0000EG
Weight: 0.8 Lbs.

L43

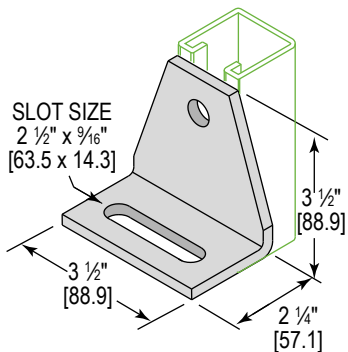
3 Hole Adjustable Corner Angle



Catalog Number: L43 0000EG
Weight: 0.7 Lbs.

L44

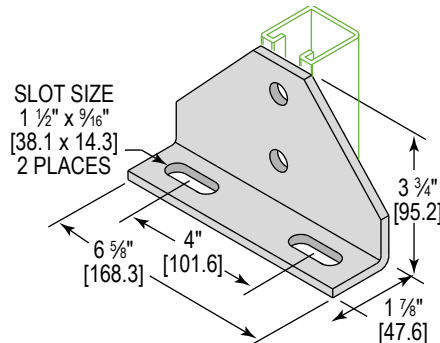
2 Hole Adjustable Gusset Corner Angle



Catalog Number: L44 0000EG
Weight: 0.87 Lbs.

L45

4 Hole $6\frac{5}{8}$ " Adjustable Gusset Corner Angle



Catalog Number: L45 0000EG
Weight: 1.62 Lbs.

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.

Angle Fittings

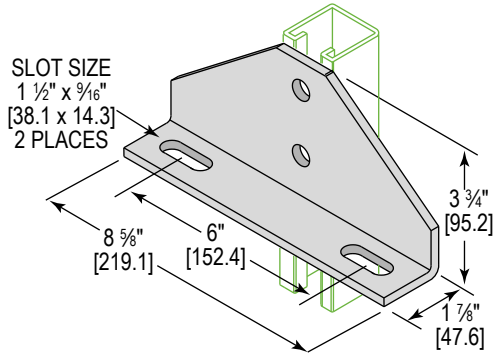
Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

Note: may also be available with $\frac{7}{16}$ " holes

L46

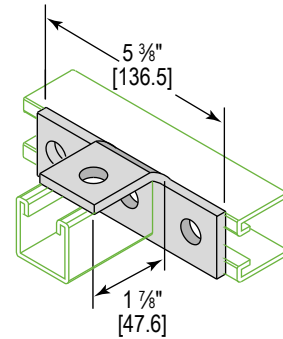
4 Hole $8\frac{5}{8}$ " Adjustable Corner Angle



Catalog Number: L46 0000EG
Weight: 2.4 Lbs.

L50

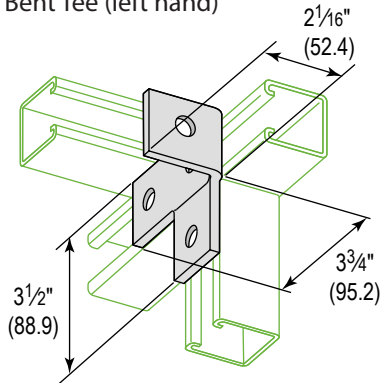
4 Hole Offset Corner Angle



Catalog Number: L50 0000EG
Weight: 0.71 Lbs.

L51

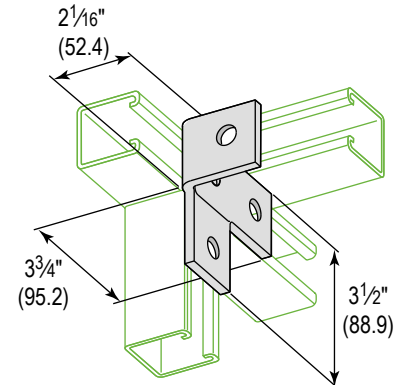
4 Hole Offset Bent Tee (left hand)



Catalog Number: L51 0000EG
Weight: 0.71 Lbs.

L52

4 Hole Offset Bent Tee (right hand)



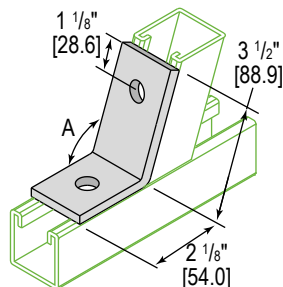
Catalog Number: L52 0000EG
Weight: 0.71 Lbs.

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"



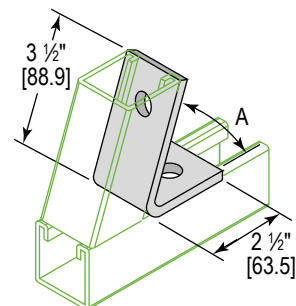
Catalog Number: L60 0000EG
Weight: 0.58 Lbs.

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.

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 $1\frac{7}{8}$ " [47.6] centers unless specified.

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

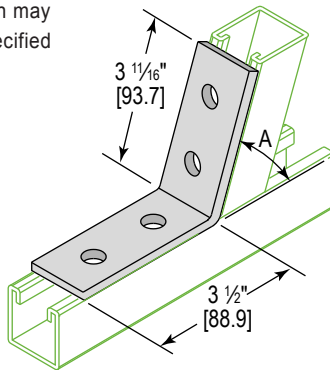
Note: may also be available with $\frac{7}{16}$ " holes

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"



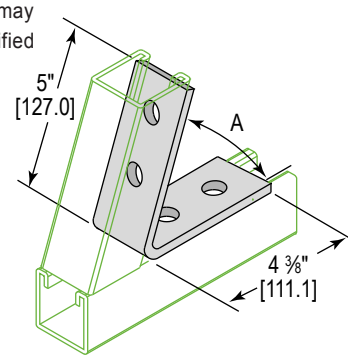
Catalog Number: L62 0000EG
Weight: 0.76 Lbs.

L63

4 Hole Closed 45 Degree* Corner Angle

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

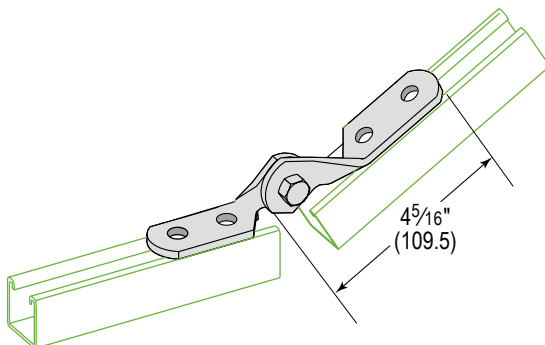
Dimensions shown may vary based on specified angle "A"



Catalog Number: L63 0000EG
Weight: 0.93 Lbs.

L64

4 Hole Adjustable Corner Angle

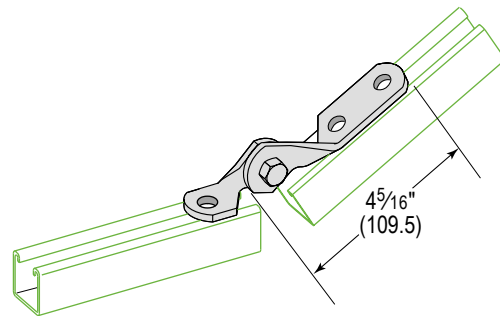


NOTE: Supplied pre-assembled

Catalog Number: L64 0000EG
Weight: 1.07 Lbs.

L65

3 Hole Adjustable Corner Angle



NOTE: Supplied pre-assembled

Catalog Number: L65 0000EG
Weight: 1.10 Lbs.

Angle Fittings

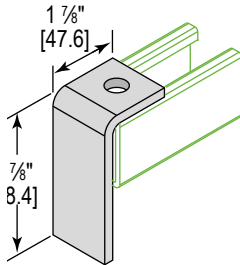
Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

Note: may also be available with $\frac{7}{16}$ " holes

L70

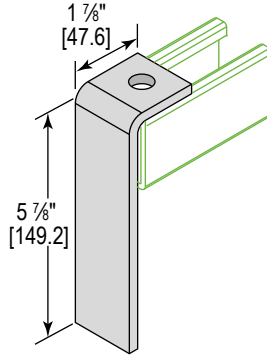
1 Hole $3\frac{7}{8}$ " Corner Angle



Catalog Number: L70 0000EG
Weight: 0.56 Lbs.

L71

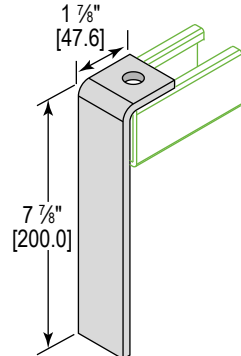
1 Hole $5\frac{7}{8}$ " Corner Angle



Catalog Number: L71 0000EG
Weight: 0.85 Lbs.

L72

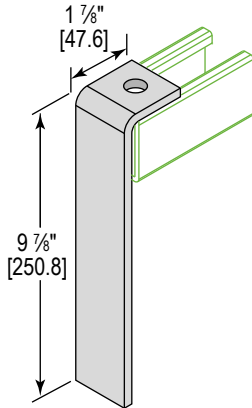
1 Hole $7\frac{7}{8}$ " Corner Angle



Catalog Number: L72 0000EG
Weight: 1.0 Lbs.

L73

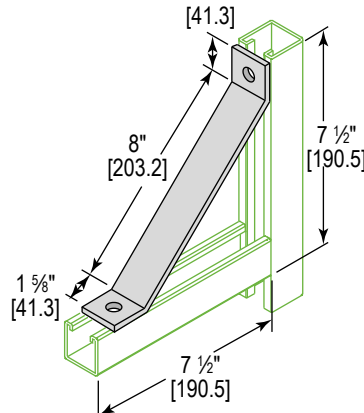
1 Hole $9\frac{7}{8}$ " Corner Angle



Catalog Number: L73 0000EG
Weight: 1.21 Lbs.

L80

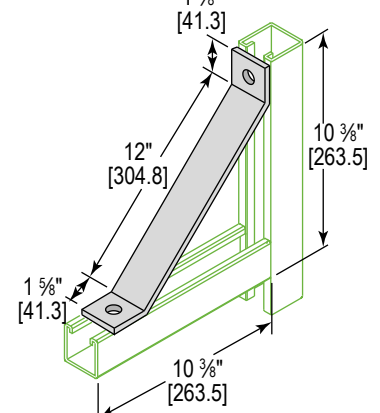
8" Angle Brace



Catalog Number: L80 0000EG
Weight: 1.19 Lbs.

L81

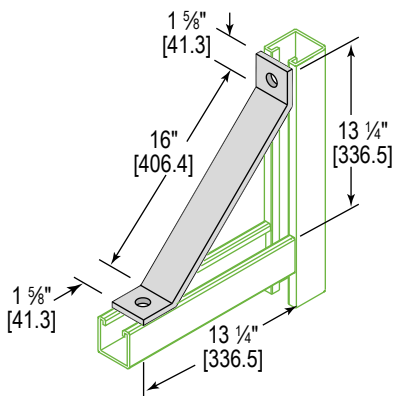
12" Angle Brace



Catalog Number: L81 0000EG
Weight: 1.65 Lbs.

L82

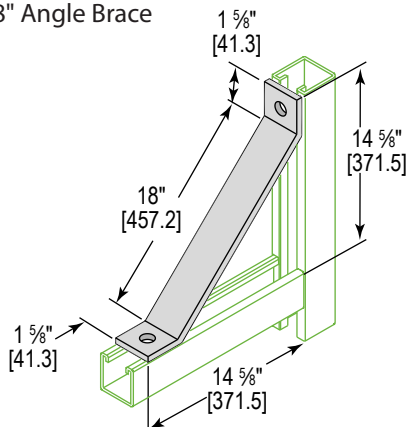
16" Angle Brace



Catalog Number L82 0000EG
Weight: 2.18 Lbs.

L83

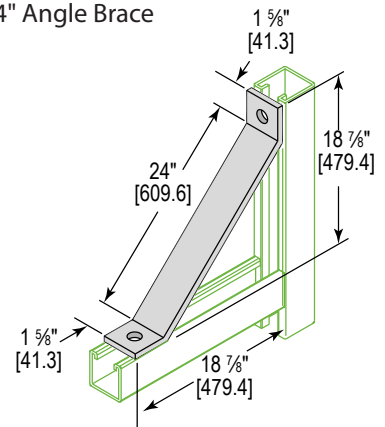
18" Angle Brace



Catalog Number L83 0000EG
Weight: 2.34 Lbs.

L84

24" Angle Brace



Catalog Number L84 0000EG
Weight: 3.03 Lbs.

Material is $1\frac{5}{8}$ " [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 $1\frac{7}{8}$ " [47.6] centers unless specified.

Standard finish is Zinc Electroplate.
See page one for a listing of product finishes and materials.

BC10

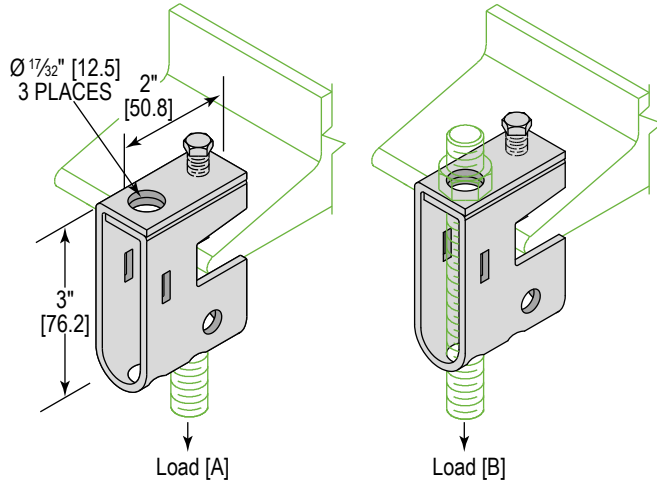
Beam Clamp Formed Steel

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	2.22	500
B	1.33	300

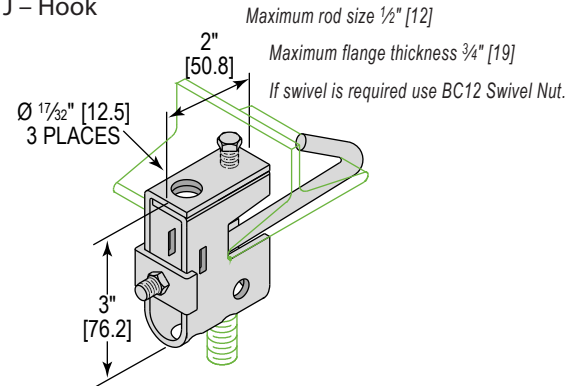


Catalog Number: BC100000EG

Weight: 0.42 Lbs.

BC11

Beam Clamp Formed Steel with J – Hook



Catalog Number	Wt. lbs	W	
		in	mm
BC110600EG	.78	3 thru 6	76 thru 152
BC110900EG	.83	6 thru 9	152 thru 228
BC111200EG	.88	9 thru 12	228 thru 305

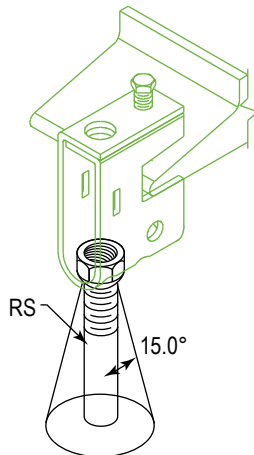
Design loads are the same as model BC10

BC12

Swivel Nut for use with BC10, BC11 and BC14

Provides 15° of swivel in any direction.

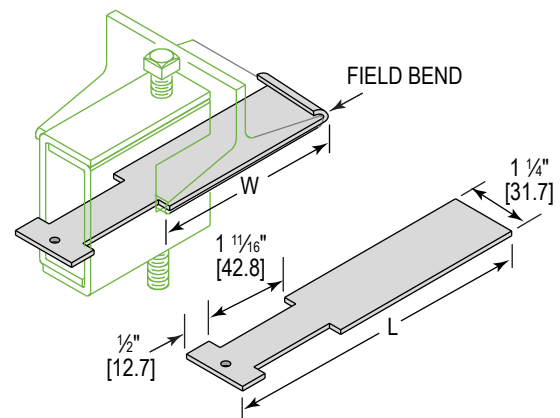
Specify Rod Size (RS) when ordering



Catalog Number	Wt. lbs	RS
BC120025EG	.007	1/4-20
BC120037EG	.015	3/8-16
BC120050EG	.036	1/2-13

BC13

Beam Clamp Anchor Strap



Catalog Number	Wt. lbs	W * (max)		L	
		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	1.00	18	457	15	381

* For beam flange greater than 3/4" [19mm] thick use next larger flange width size.

Beam Clamps

Standard finish is Zinc Electroplate.

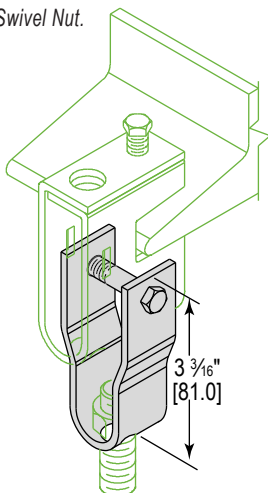
See page one for a listing of product finishes and materials.

BC14

Beam Clamp Swivel Adapter for BC10

For use with 1/4", 3/8" or 1/2" rod (6mm, 8mm or 10mm).

If swivel is required use BC12 Swivel Nut.



Design load 500 lb [2.22 kN]

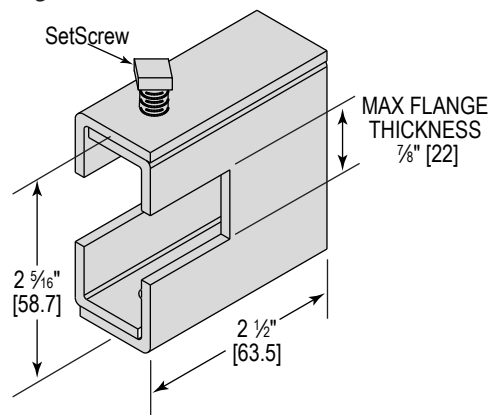
Catalog Number: BC140000EG

Weight: 0.3 Lbs.

BC15

Formed Steel Beam Clamp

Maximum flange thickness 7/8" [22]

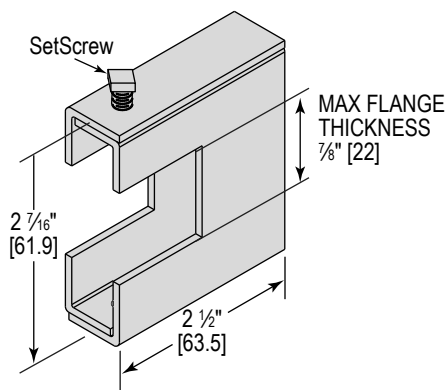


Catalog Number	Wt. lbs	Rod Size	Set Screw	Design Load	
				lbs	kN
BC150037EG	0.72	3/8"	3/8" - 16	650	2.89
BC150050EG	0.95	1/2"	1/2" - 13	650	2.89
BC150062EG	1.29	5/8"	1/2" - 13	650	2.89

BC16

Formed Steel Heavy Duty Beam Clamp

Maximum 7/8" [22] beam thickness

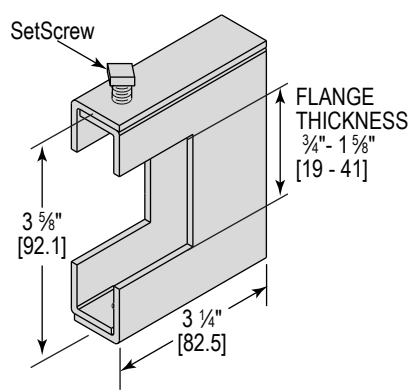


Catalog Number	Wt. lbs	Rod Size	Set Screw	Design Load	
				lbs	kN
BC160037EG	0.98	3/8"	1/2" - 13	1100	4.89
BC160050EG	1.30	1/2"	1/2" - 13	1100	4.89
BC160062EG	1.59	5/8"	1/2" - 13	1100	4.89

BC17

Formed Steel Heavy Duty Beam Clamp

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



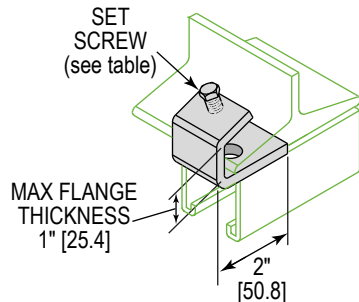
Catalog Number	Wt. lbs	Rod Size	Set Screw	Design Load	
				lbs	kN
BC170037EG	1.51	3/8"	1/2" - 13	1100	4.89
BC170050EG	1.52	1/2"	1/2" - 13	1100	4.89
BC170062EG	2.25	5/8"	1/2" - 13	1100	4.89

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

BC20, BC21

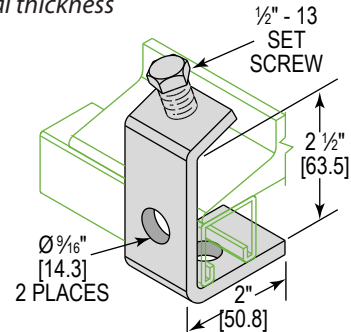
Strut to Beam Clamp C-Type



Catalog Number	Wt. lbs	Set Screw	Material Thickness	Design Load When Used in Pairs
BC200000EG	.39	3/8-16	1/4" [6.3]	550 Lbs [2.45 kN]
BC210000EG	.62	1/2-13	3/8" [9.5]	1000 Lbs [4.45 kN]

BC22

Strut to Beam Clamp C-Type, Parallel
3/8" [9.5] material thickness

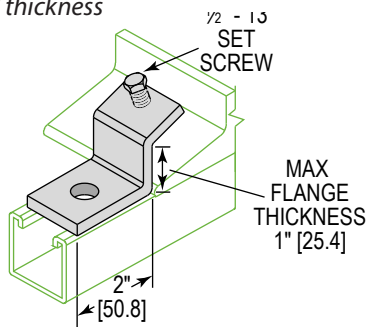


Design load 1000 Lbs [4.45 kN] when used in pairs

Catalog Number: BC220000EG
Weight: 0.91 Lbs.

BC30

Strut to Beam Clamp Z-Type
3/8" [9.5] material thickness



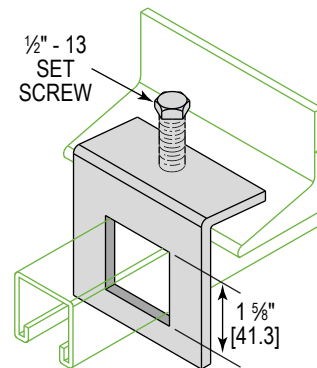
Design load 600 Lbs [2.67 kN] when used in pairs

Clamp requires 1/2"-13 HCS and 1/2" channel nut, order separately

Catalog Number: BC300000EG
Weight: 0.65 Lbs.

BC40

Strut to Beam Clamp Window Type

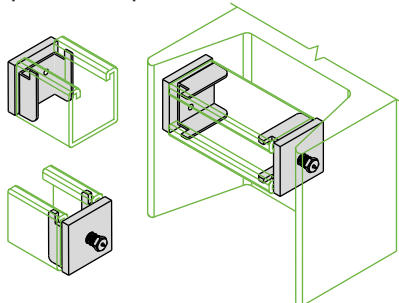


Design load
950 Lbs [4.23 kN]
when used in pairs

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 to maximum of opening less 1" [25mm]
and minimum of opening minus 1 1/2" [38mm]

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

Catalog Number: BC500000EG
Weight: 0.54 Lbs.

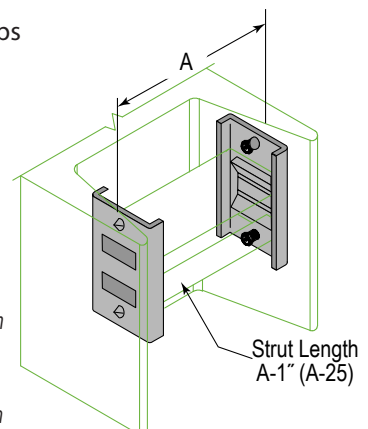
BC51

Strut to Beam Spreader Caps

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

Cut strut length to maximum of
opening less 1" [25mm] and minimum
of opening minus 1 1/2" [38mm]

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



Catalog Number: BC510000EG
Weight: 1.40 Lbs.

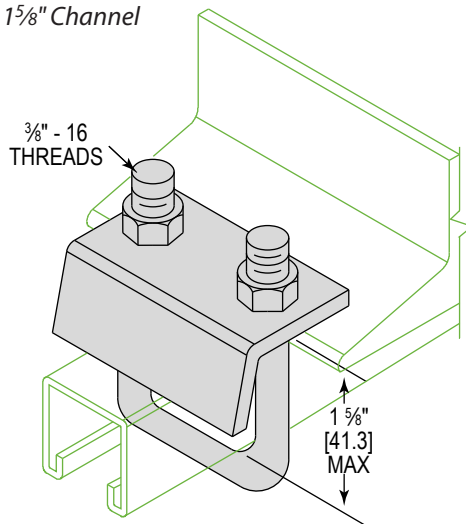
Beam Clamps

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

BC60

Strut to Beam Clamp with Square U-Bolt
For $1\frac{3}{16}$ " & $1\frac{5}{8}$ " Channel

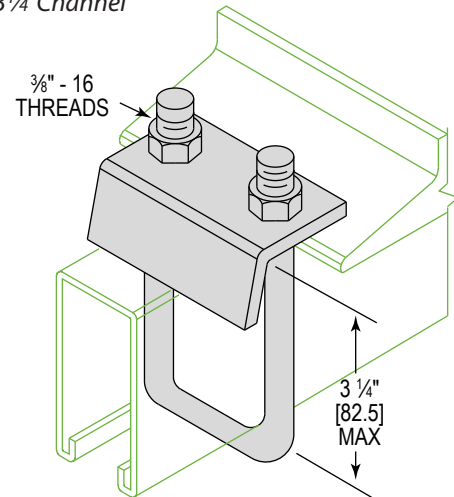


Design load 1200 Lbs [5.34 kN] when used in pairs

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

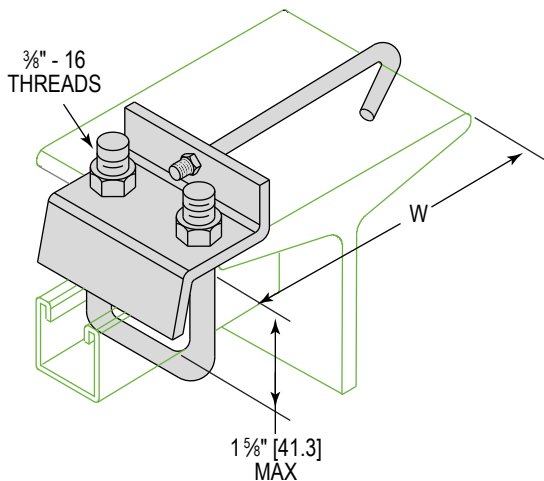


Design load 1200 Lbs [5.34 kN] when used in pairs

Catalog Number: BC610000EG
Weight: 0.79 Lbs.

BC62

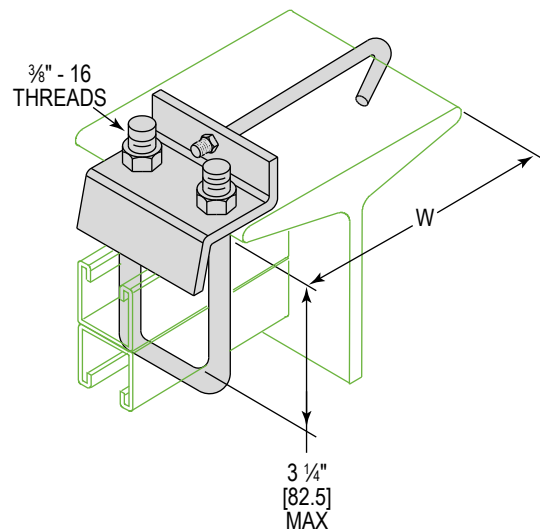
Strut to Beam Clamp with Square U-Bolt and J-Hook
For $1\frac{3}{16}$ " & $1\frac{5}{8}$ " channel



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

BC63

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



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



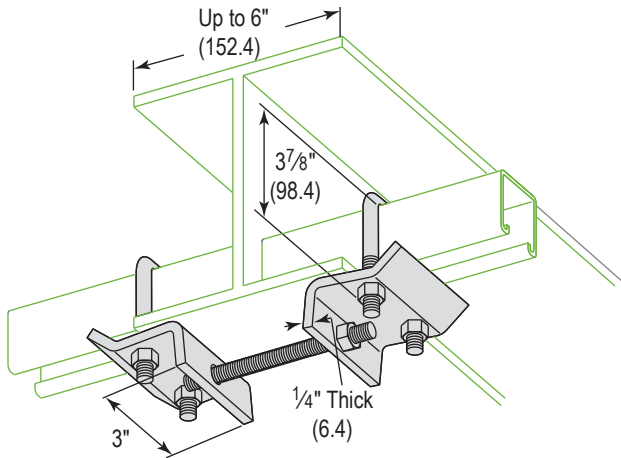
Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

BC64

Strut to Beam Clamp

Double for $1\frac{3}{16}$ " & $\frac{5}{8}$ " channel, size 9" to 12"

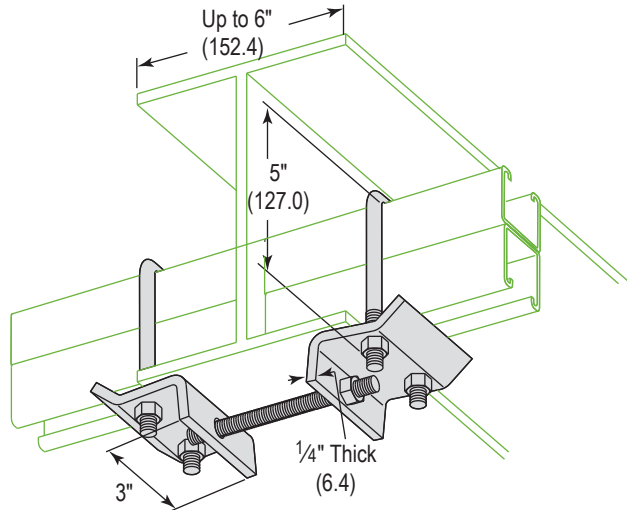


Catalog Number: BC641200EG
Weight: 2.8 Lbs.

BC65

Strut to Beam Clamp

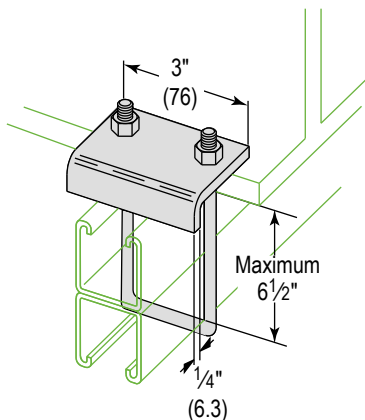
Double for $2\frac{7}{16}$ " & $3\frac{1}{4}$ " Channel



Catalog Number: BC651200EG
Weight: 3.0 Lbs.

BC66

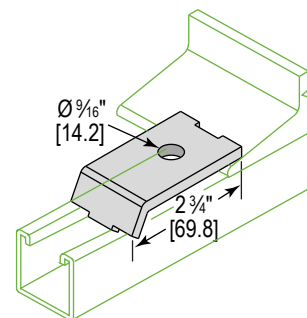
Strut to Beam Clamp with Square U-Bolt
For 6 1/2" maximum



Catalog Number: BC660000EG
Weight: 0.92 Lbs.

BC70

Strut to Beam Clamp Notched Type

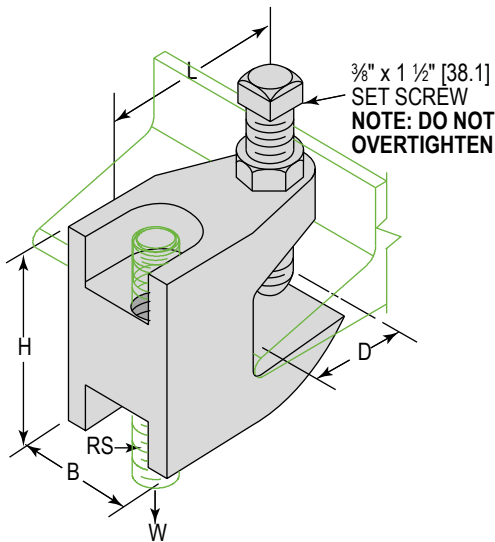


Material is $1\frac{5}{8}$ " [41.3] wide x $\frac{1}{4}$ " [6.3] thick
Clamp requires $\frac{1}{2}$ "-13 HCS and $\frac{1}{2}$ " channel nut, order separately
Design load 1100 Lbs [4.89 kN] when used in pairs

Catalog Number: BC700000EG
Weight: 0.29 Lbs.

BC80

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

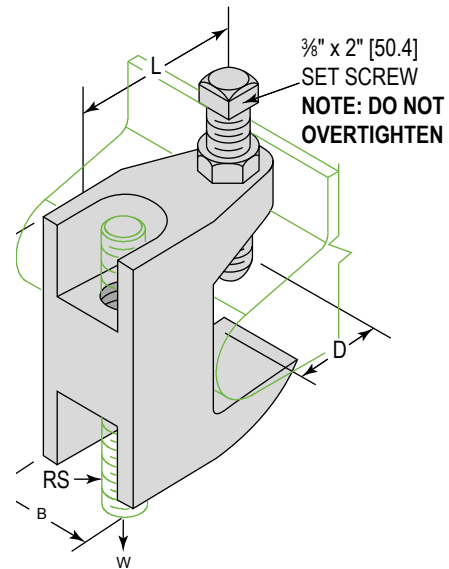


Catalog Number	Rod Size (RS)	Max Load W		Max Pipe Size		Wt. Lbs.
		lbs	kN	in	mm	
BC800037PL	3/8" - 16	350	1.56	4	100	0.32
BC800037EG	3/8" - 16	350	1.56	4	100	0.32
BC800050PL	1/2" - 13	470	2.09	4	100	0.32
BC800050EG	1/2" - 13	470	2.09	4	100	0.32
BC800062PL	5/8" - 11	550	2.45	5	125	0.56
BC800062EG	5/8" - 11	550	2.45	5	125	0.56
BC800075PL	3/4" - 10	700	3.11	6	150	0.75
BC800075EG	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	7/8	22.2	1-5/16	33.3	1-1/2	38.1	1/2	12.7
BC800037EG	7/8	22.2	1-5/16	33.3	1-1/2	38.1	1/2	12.7
BC800050PL	7/8	22.2	1-5/16	33.3	1-1/2	38.1	1/2	12.7
BC800050EG	7/8	22.2	1-5/16	33.3	1-1/2	38.1	1/2	12.7
BC800062PL	1 1/8	28.6	1-3/4	44.5	1-3/4	44.5	5/8	15.9
BC800062EG	1 1/8	28.6	1-3/4	44.5	1-3/4	44.5	5/8	15.9
BC800075PL	1 3/8	34.9	1-7/8	47.6	1-7/8	47.6	5/8	15.9
BC800075EG	1 3/8	34.9	1-7/8	47.6	1-7/8	47.6	5/8	15.9

BC81

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



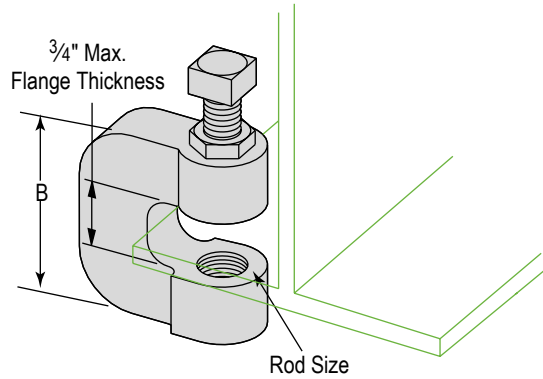
Catalog Number	Rod Size (RS)	Max Load W		Max Pipe Size		Wt. Lbs.
		lbs	kN	in	mm	
BC810037PL	3/8" - 16	400	1.78	4	100	0.41
BC810037EG	3/8" - 16	400	1.78	4	100	0.41
BC810050PL	1/2" - 13	500	2.22	4	100	0.41
BC810050EG	1/2" - 13	500	2.22	4	100	0.41
BC810062PL	5/8" - 11	500	2.22	4	100	0.75
BC810062EG	5/8"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

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



BC85

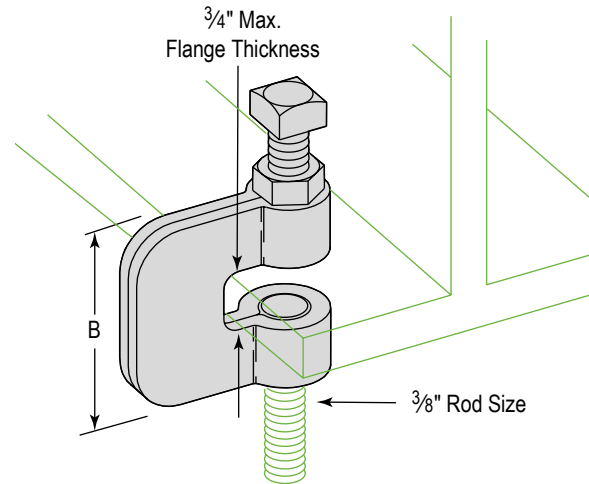
Malleable Iron C-clamp with lock nut



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

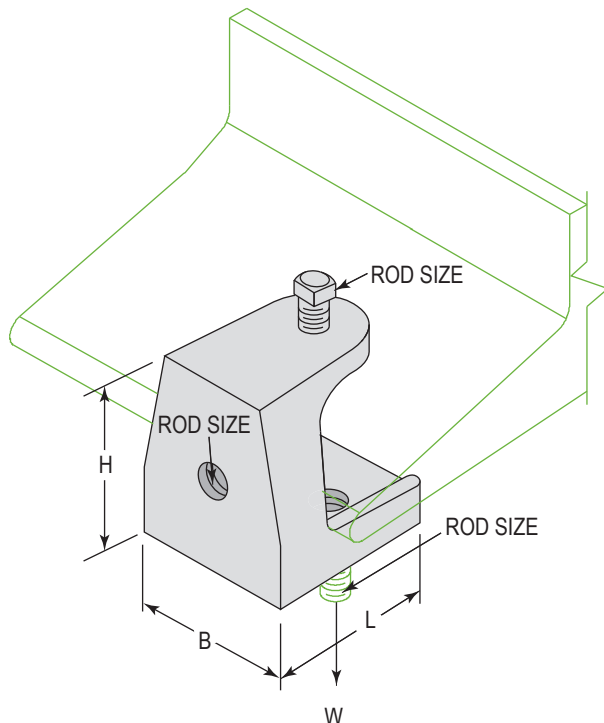
Pressed Steel C-Clamp with Lock kNut



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	.16	1/4"-20	5/16"-18	335	1.49
BC900037EG	.09	3/8"-16	1/2"-13	525	2.34
BC900050EG	1.5	1/2"-13	1/2"-13	750	3.34

Catalog Number	Wt. lbs	B		L		H	
		in	mm	in	mm	in	mm
BC900025EG	.16	1 3/16	30.2	1 3/8	34.9	1 3/8	34.9
BC900037EG	.09	2 1/16	52.4	1 7/8	47.6	1 3/4	44.4
BC900050EG	1.5	2 1/2	63.5	2 3/8	60.3	2 3/16	55.6

Beam Clamps

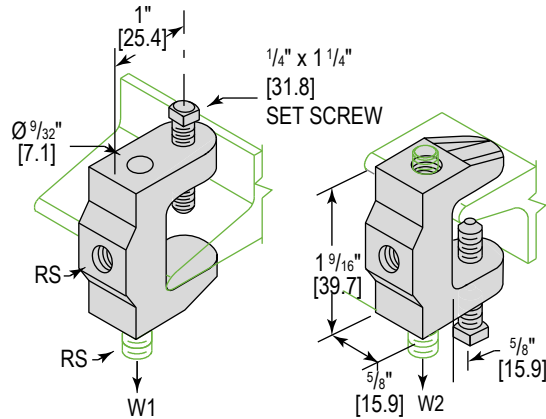
Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

BC91

Malleable Iron Universal Beam Clamp

Maximum flange thickness of $\frac{5}{8}$ "



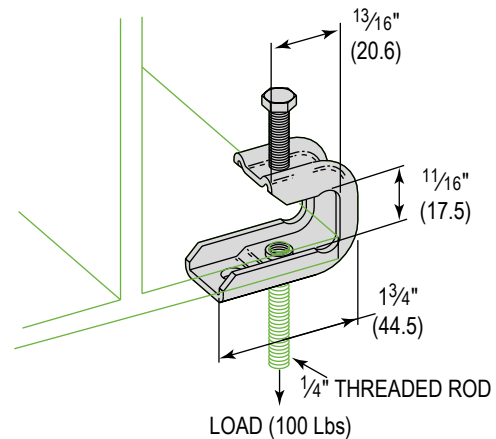
Catalog Number	Wt. lbs	Rod Size (RS)	Max Load W1		Max Load W2	
			lbs	kN	lbs	kN
BC910025EG	.24	1/4" - 20	100	0.44	250	1.11

Note: The threaded hole on the back side of the clamp is not load rated.

BC92

Light Duty Beam Clamp

Maximum flange thickness of $\frac{5}{8}$ "



Catalog Number: BC920025EG

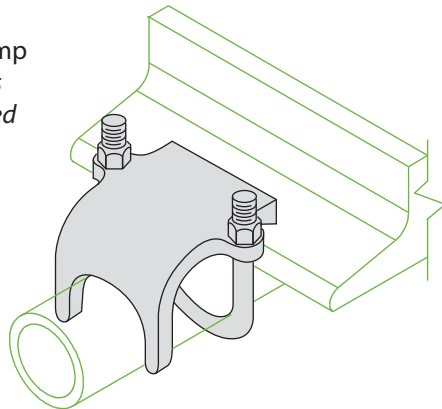
Weight: 0.3 Lbs.

RA

Right Angle Clamp

Standard finish is

hot dip galvanized



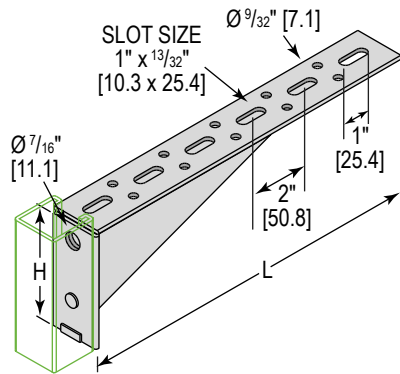
Catalog Number	Wt. lbs	Pipe Size	
		in	mm
RA 0050HD	0.38	1/2	15
RA 0075HD	0.41	3/4	20
RA 0100HD	0.46	1	25
RA 0125HD	0.49	1 1/4	32
RA 0150HD	0.59	1 1/2	40
RA 0200HD	0.88	2	50
RA 0250HD	1.09	2 1/2	65
RA 0300HD	1.31	3	80
RA 0350HD	1.28	3 1/2	90
RA 0400HD	1.66	4	100

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

BR8R

Slotted Shelf Bracket (Left Hand)

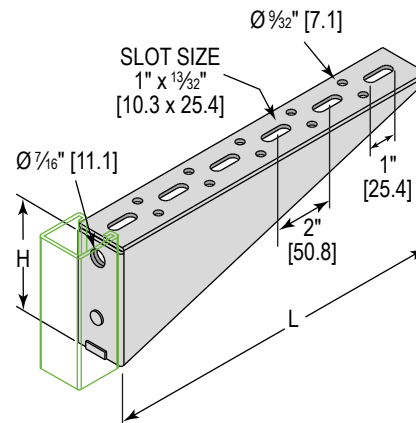


Uniform load rating 250 lbs. [1.11kN] when mounted on 12 gauge channel

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

BR8L

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
BR8L0600EG	0.58	6	152.4	2 $\frac{7}{8}$	73.0
BR8L0800EG	0.83	8	203.2	2 $\frac{7}{8}$	73.0
BR8L1000EG	1.14	10	254.0	2 $\frac{7}{8}$	73.0
BR8L1200EG	1.49	12	304.8	3 $\frac{7}{16}$	87.3
BR8L1400EG	1.74	14	355.6	3 $\frac{15}{16}$	100.0
BR8L1600EG	2.25	16	406.4	4 $\frac{7}{16}$	112.7
BR8L1800EG	2.55	18	457.2	4 $\frac{15}{16}$	125.4

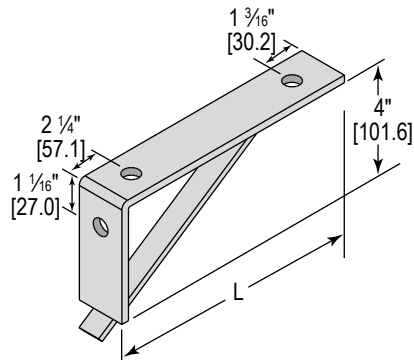
Brackets

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

BR20

Bracket 3 Hole

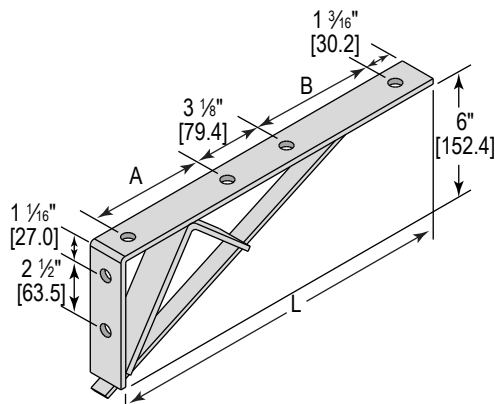


* When mounted on 12 gauge channel

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

BR22

Bracket with Brace 6 Hole

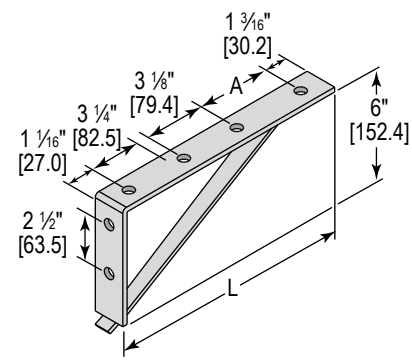


* When mounted on 12 gauge channel

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

BR21

Bracket 6 Hole

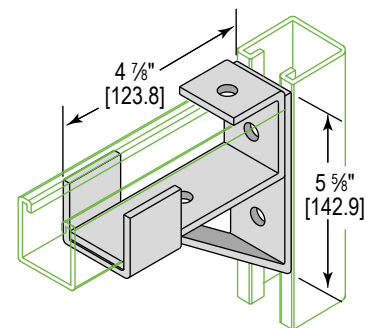


* When mounted on 12 gauge channel

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

BR30

Bracket for 1½" Channel



Maximum loading 5800 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.

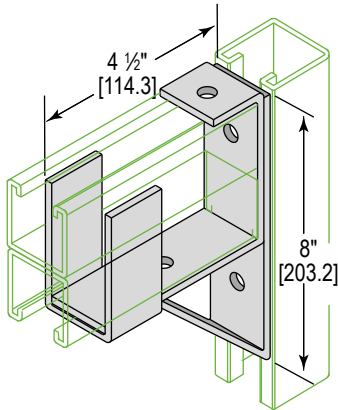
Material is 1½" [41.3] wide x ¼" [6.3] thick unless specified. Hole centers are 1¾" [20.6] from edge on 17/8" [47.6] centers unless specified.

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

BR31

Bracket for 3¼" Channel



Maximum loading 12500 in. lb. (1412 Nm)

When mounted on 12 gauge channel

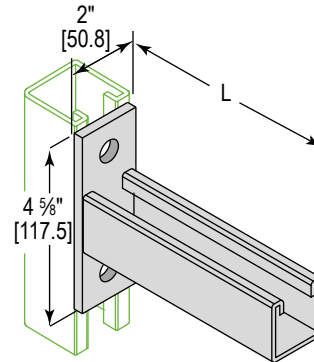
Max load applies to bracket only, not the strength of the strut arm

Catalog Number: BR310000EG

Weight: 2.84 Lbs.

BR40

Bracket Channel 1½" Channel 2 Hole

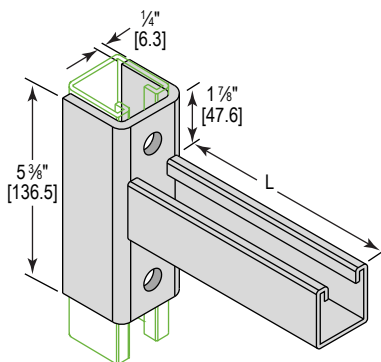


* When mounted on 12 gauge channel

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

BR41

Bracket Channel Wrap Around 1½" Channel

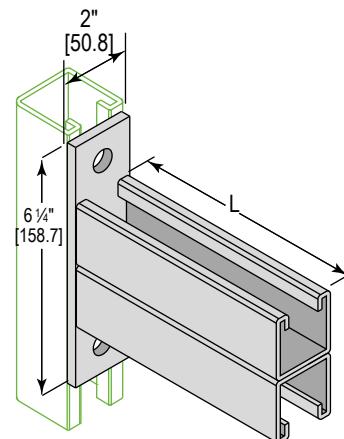


* When mounted on 12 gauge channel

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

BR42

Bracket Double 1½" Channel



* When mounted on 12 gauge 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

Material is 1½" [41.3] wide x ¼" [6.3] thick unless specified. Hole centers are 1³⁄₁₆" [20.6] from edge on 1⁷⁄₈" [47.6] centers unless specified.

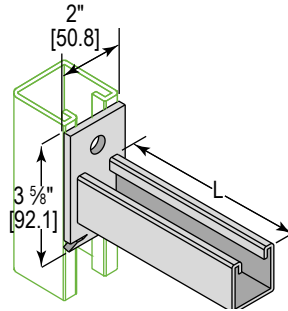
Brackets

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

BR43

Bracket Channel Notched, Up

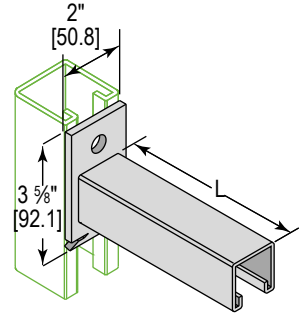


Catalog Number	Wt. lbs	L		Uniform Load	
		in	mm	lbs	kN
BR430600EG	1.51	6	152.4	1250	5.56
BR430900EG	1.97	9	228.6	1000	4.45
BR431200EG	2.55	12	304.8	750	3.34
BR431800EG	3.51	18	457.2	500	2.22
BR432400EG	4.28	24	609.6	350	1.56

* When mounted on 12 gauge channel

BR44

Bracket Channel Notched, Down

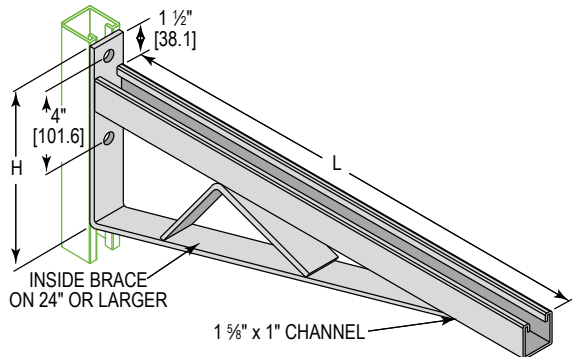


Catalog Number	Wt. lbs	L		Uniform Load	
		in	mm	lbs	kN
BR440600EG	3.71	6	152.4	1250	5.56
BR440900EG	4.88	9	228.6	1000	4.45
BR441200EG	7.41	12	304.8	750	3.34
BR441800EG	9.88	18	457.2	500	2.22
BR442400EG	4.28	24	609.6	350	1.56

* When mounted on 12 gauge channel

BR45

Bracket Channel

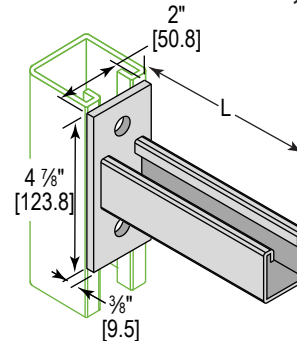


Catalog Number	Wt. lbs	L		H		Uniform Load	
		in	mm	in	mm	lbs	kN
BR451200EG	3.71	12	304.8	8 3/4	222.2	1450	6.45
BR451800EG	4.88	18	457.2	8 3/4	222.2	900	4.00
BR452400EG	7.41	24	609.6	8 3/4	222.2	900	4.00
BR453000EG	9.88	30	762.0	11 1/4	285.7	800	3.56
BR453600EG	10.83	36	914.4	11 1/4	285.7	750	3.34

* When mounted on 12 gauge channel

BR46

Bracket Channel 1 5/8" Channel 2 Hole Heavy

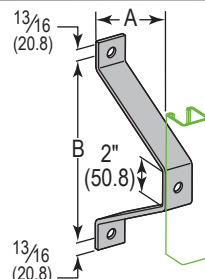


Catalog Number	Wt. lbs	L		Uniform Load	
		in	mm	lbs	kN
BR460600EG	1.850	6	152.4	1250	5.56
BR460900EG	2.510	9	228.6	1000	4.45
BR461200EG	3.380	12	304.8	750	3.34
BR461800EG	4.010	18	457.2	500	2.22
BR462400EG	5.090	24	609.6	350	1.56

* When mounted on 12 gauge channel

BR47

Ladder Bracket



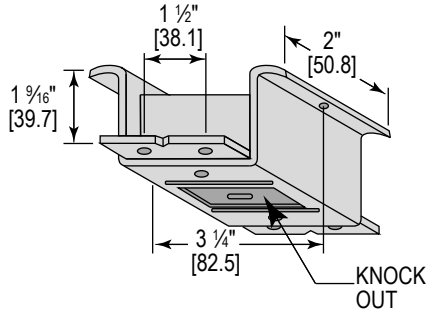
CatalogNo.	A	B	Wt.lbs
BR470237EG	2 3/8"	6"	1.10
BR470437EG	4 3/8"	8"	1.64
BR470637EG	6 3/8"	10"	2.00
BR470837EG	8 3/8"	12"	2.53
BR71037EG	10 3/8"	14"	3.28

Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Hole centers are 13/16" [20.6] from edge on 1 7/8" [47.6] centers unless specified.

Standard finish is Zinc Electroplate.
See page one for a listing of product finishes and materials.

CI

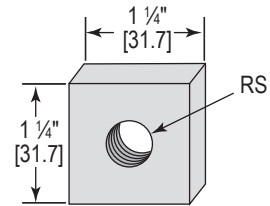
Concrete Insert



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

CIN

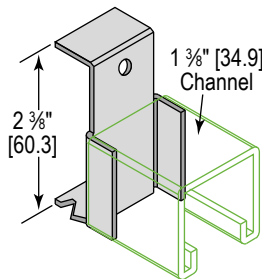
Concrete Insert Nut



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

CI20

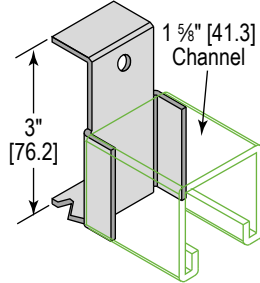
Concrete End Cap Anchor
For 1 3/8" Channel



Catalog Number: CI200000EG
Weight: 0.1 Lbs.

CI21

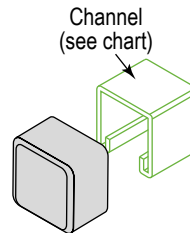
Concrete End Cap Anchor
For 1 5/8" Channel



Catalog Number: CI210000EG
Weight: 0.1 Lbs.

EC07, EC08, EC09

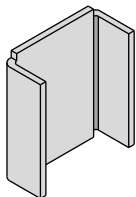
Plastic End Cap



Catalog Number	For Use With Channel	Wt. lbs	Color
EC080000VC	1 5/8" x 1 3/16"	.03	White
EC080000RVC		.03	Red
EC090000VC	1 5/8" x 1 5/8"	.04	White
EC090000RVC		.05	Red
EC070000VC	1 5/8" x 3/4"	.05	White
EC070000RVC		.05	Red

EC10

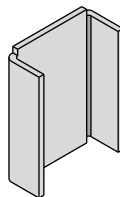
End Cap (1 5/8" 12 Ga. Channel)



Catalog Number EC110000EG
Weight: 0.08 Lbs.

EC11

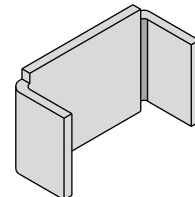
End Cap (1 5/8" 14 Ga. Channel)



Catalog Number: EC100000EG
Weight: 0.08 Lbs.

EC12

End Cap (1 3/16" 14 Ga. Channel)



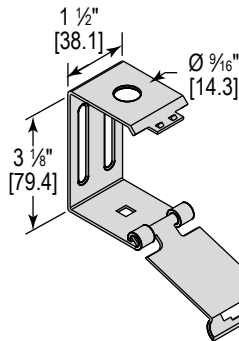
Catalog Number EC120000EG
Weight: 0.04 Lbs.

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

EF10

Hinged Fluorescent Fixture Hanger
1⁵/₈" Channel 9/16" Hole

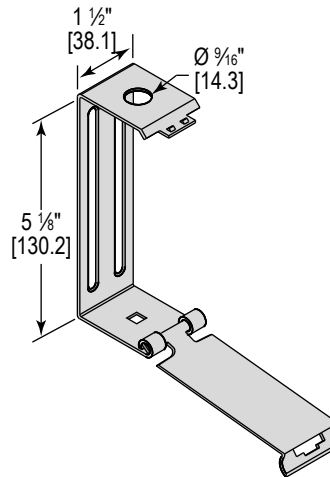


Maximum loading 120 lb. [0.53 kN]
May be used as a channel hanger,
EF46 required for fixture attachment

Catalog Number EF100000EG
Weight: 0.35 Lbs.

EF11

Hinged Fluorescent Fixture Hanger
3¹/₄" Channel 9/16" Hole

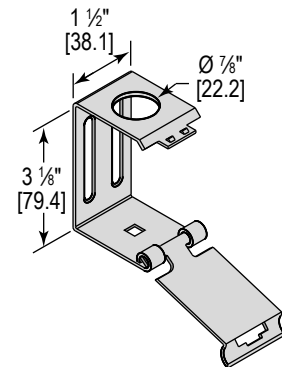


Maximum loading 120 lb. [0.53 kN]
May be used as a channel hanger,
EF46 required for fixture attachment

Catalog Number EF110000EG
Weight: 0.44 Lbs.

EF12

Hinged Fluorescent Fixture Hanger
1⁵/₈" Channel 7/8" Hole

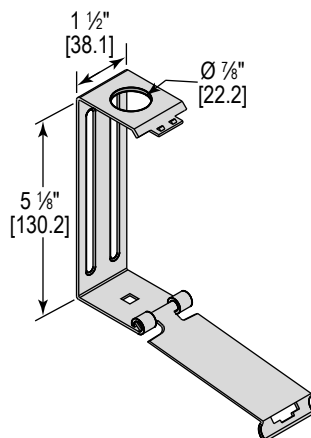


Maximum loading 120 lb. [0.53 kN]
May be used as a channel hanger
EF46 required for fixture attachment

Catalog Number EF120000EG
Weight: 0.26 Lbs.

EF13

Hinged Fluorescent Fixture Hanger
3¹/₄" Channel 7/8" Hole



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

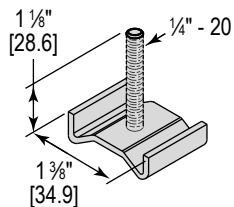
Catalog Number EF130000EG
Weight: 0.45 Lbs.

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

EF19

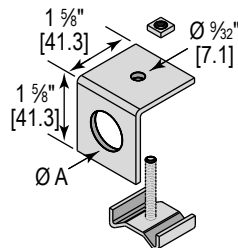
Fixture Stud Nut



Catalog Number: EF190000EG
Weight: 0.03 Lbs.

EF20

End Cap Knock Out with Hardware

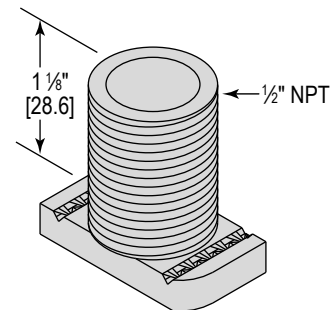


Includes: Qty 1 – EF19 Fixture Stud Nut
Qty 1 – 1/4-20 Square Nut

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

EF21

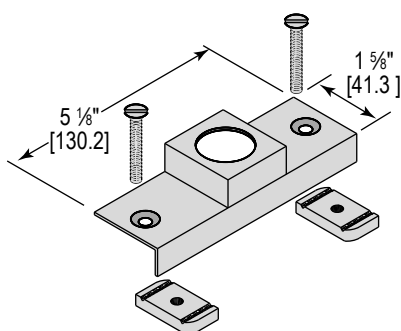
Wiring Stud



Catalog Number: EF210000EG
Weight: 0.07 Lbs.

EF22

Conduit Connection Plate with Hardware

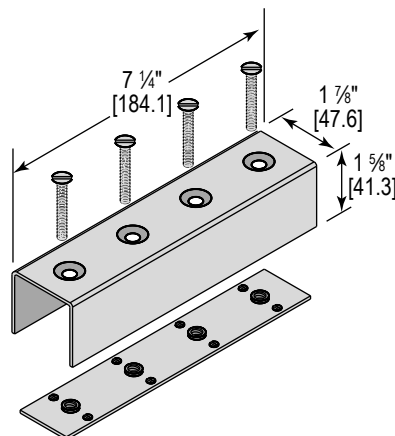


Includes: Qty 2 – CNN20025 Channel Nuts
Qty 2 – 1/4-20 Flathead Machine Screws

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

EF30

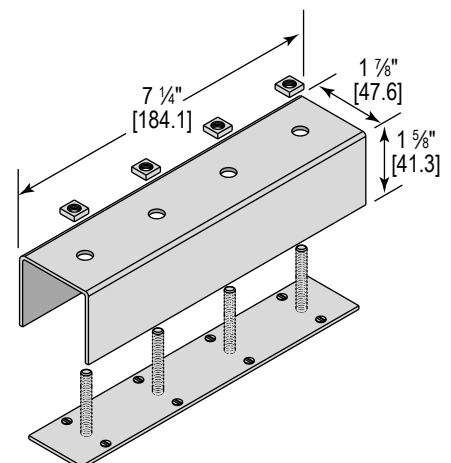
Channel Splice 4 Hole Assembly with Tapped Plate and Hardware



Catalog Number: EF300000EG
Weight: 1.06 Lbs.

EF31

Channel Splice 4 Hole Assembly with Stud Plate and Hardware

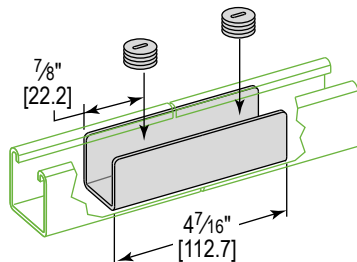


Catalog Number: EF310000EG
Weight: 1.05 Lbs.

Standard finish is Zinc Electroplate.
See page one for a listing of product finishes and materials.

EF33

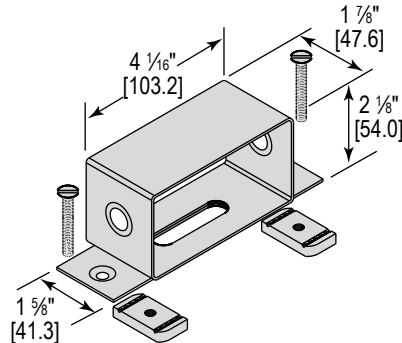
Inside Strut Joiner for $\frac{1}{2}$ " or $1\frac{1}{2}$ " channel
Cam Screws
Lock Joiner in Place



Catalog Number	Use With	Wt. lbs
EF330081EG	$\frac{1}{2}$ " Channel	.31
EF330162EG	$1\frac{1}{2}$ " Channel	.55

EF40

Outlet Box Bolt Down with Hardware

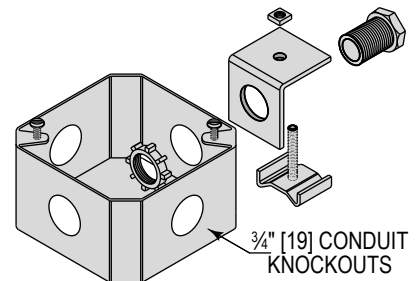


Includes: Qty 2 – CNN20025 Channel Nuts
Qty 2 – $\frac{1}{4}$ -20 Flathead Machine Screws

Catalog Number: EF400000EG
Weight: 0.92 Lbs.

EF41

Junction Box Universal with 1 Connector

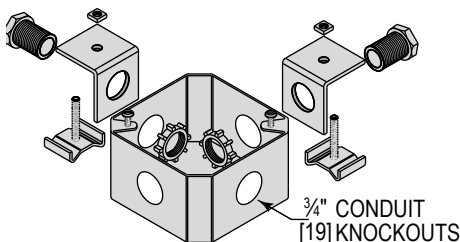


Includes: Qty 1 – EF200075EG
Qty 1 – $\frac{3}{4}$ " Bushing with Nut

Catalog Number: EF410000EG
Weight: 1.92 Lbs.

EF42

Junction Box Universal with 2 Connectors at 90 Degrees

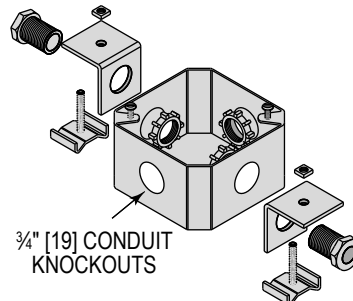


Includes: Qty 2 – EF200075EG
Qty 2 – $\frac{3}{4}$ " Bushing with Nut

Catalog Number: EF420000EG
Weight: 2.13 Lbs.

EF43

Junction Box Universal with 2 Connectors Opposite

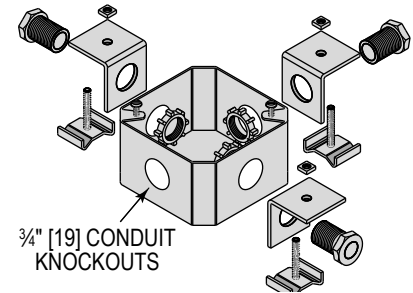


Includes: Qty 2 – EF200075EG
Qty 2 – $\frac{3}{4}$ " Bushing with Nut

Catalog Number: EF430000EG
Weight: 2.34 Lbs.

EF44

Junction Box Universal with 3 Connectors

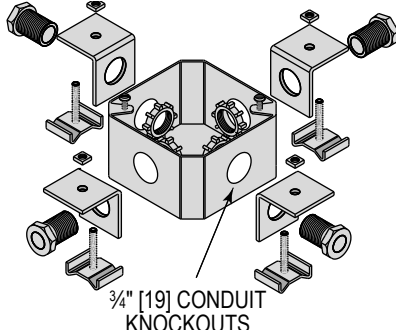


Includes: Qty 4 – EF200075EG
Qty 4 – $\frac{3}{4}$ " Bushing with Nut

Catalog Number: EF440000EG
Weight: 2.55 Lbs.

EF45

Junction Box Universal with 4 Connectors

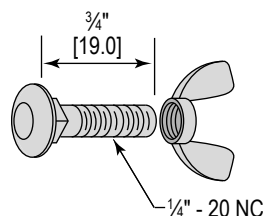


Includes:
Qty 4 – EF200075EG
Qty 4 – $\frac{3}{4}$ " Bushing with Nut

Catalog Number: EF450000EG
Weight: 2.76 Lbs.

EF46

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



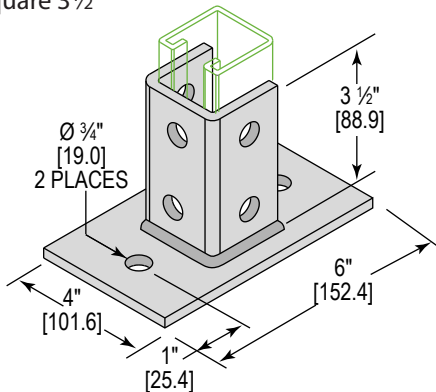
Catalog Number: EF460000EG
Weight: 0.03 Lbs.

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

P10

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

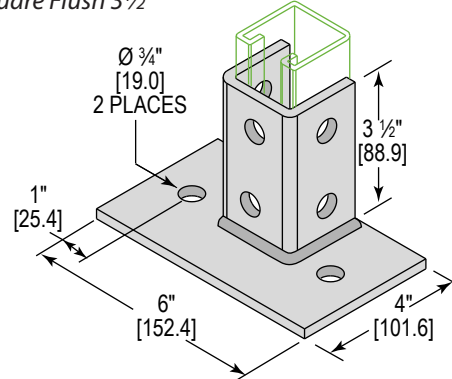


Catalog Number: P10 0000EG

Weight: 2.79 Lbs.

P11

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

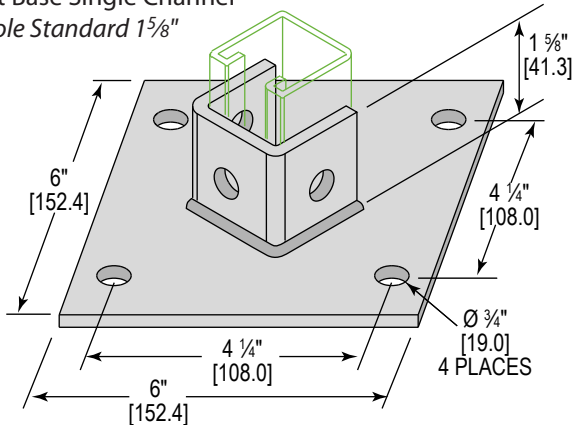


Catalog Number: P11 0000EG

Weight: 2.79 Lbs.

P12

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

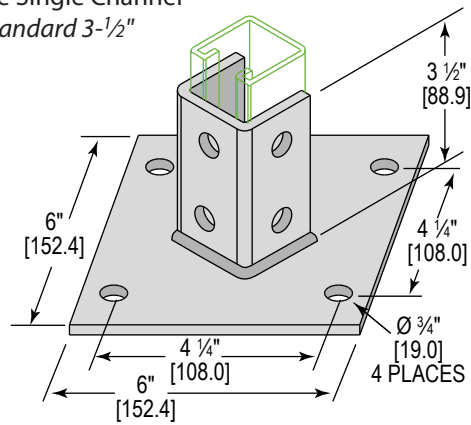


Catalog Number: P12 0000EG

Weight: 2.96 Lbs.

P13

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

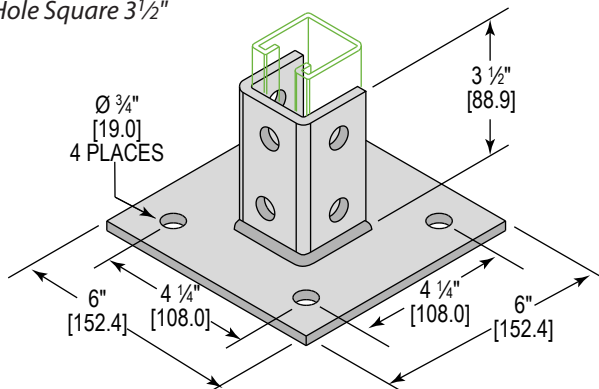


Catalog Number: P13 0000EG

Weight: 3.56 Lbs.

P14

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

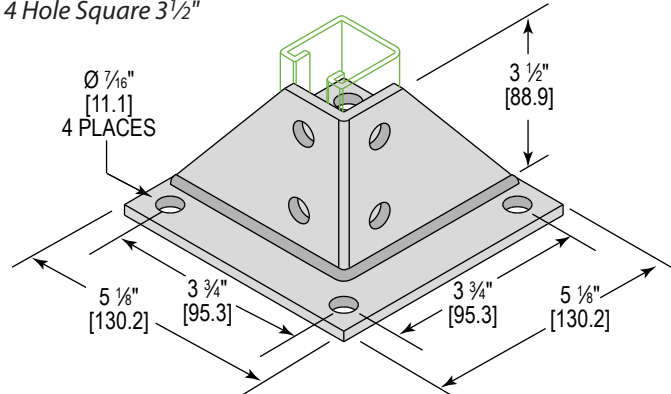


Catalog Number: P14 0000EG

Weight: 3.53 Lbs.

P15

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



Catalog Number: P15 0000EG

Weight: 2.880 Lbs.

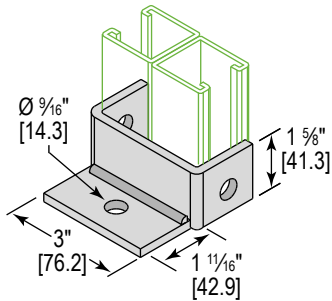
Post Bases

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

P16

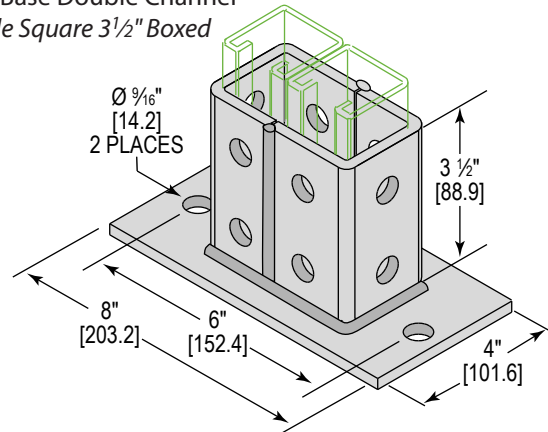
Post Base Double Channel
1 Hole 1 $\frac{5}{8}$ "



Catalog Number: P16 0000EG
Weight: 1.16 Lbs.

P17

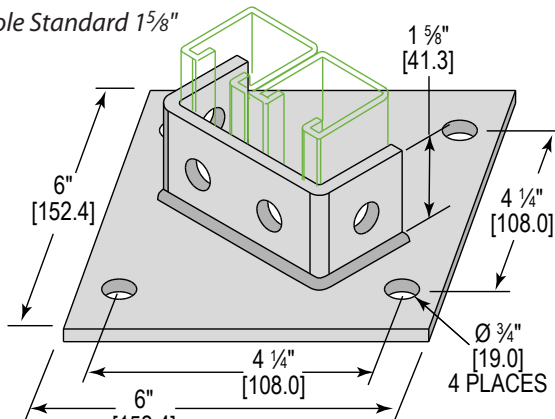
Post Base Double Channel
2 Hole Square 3 $\frac{1}{2}$ " Boxed



Catalog Number: P17 0000EG
Weight: 3.11 Lbs.

P18

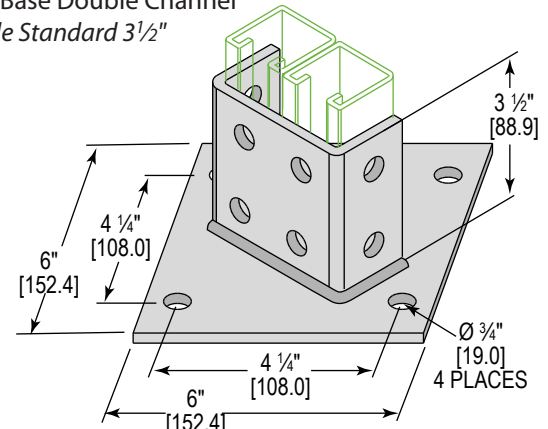
Post Base Double Channel
4 Hole Standard 1 $\frac{5}{8}$ "



Catalog Number: P18 0000EG
Weight: 3.1 Lbs.

P19

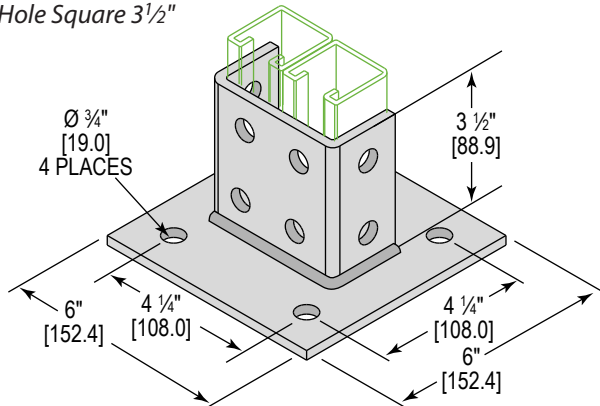
Post Base Double Channel
4 Hole Standard 3 $\frac{1}{2}$ "



Catalog Number: P19 0000EG
Weight: 3.87 Lbs.

P20

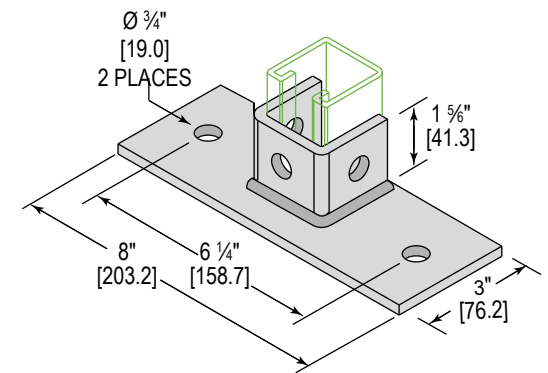
Post Base Double Channel
4 Hole Square 3 $\frac{1}{2}$ "



Catalog Number: P20 0000EG
Weight: 3.88 Lbs.

P21

Post Base Single Channel
2 Hole Square 3"



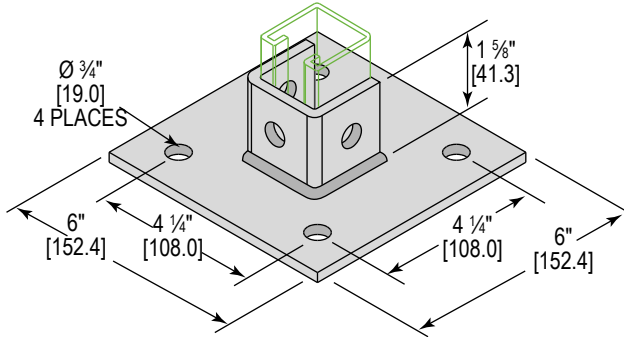
Catalog Number: P21 0000EG
Weight: 2.30 Lbs.

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

P22

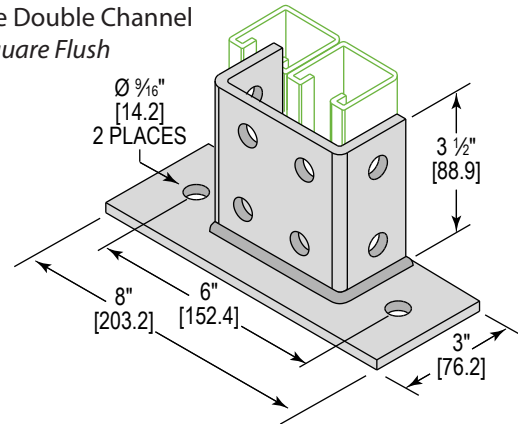
Post Base Single Channel
4 Hole Square 1 $\frac{5}{8}$ "



Catalog Number: P22 0000EG
Weight: 2.96 Lbs.

P23

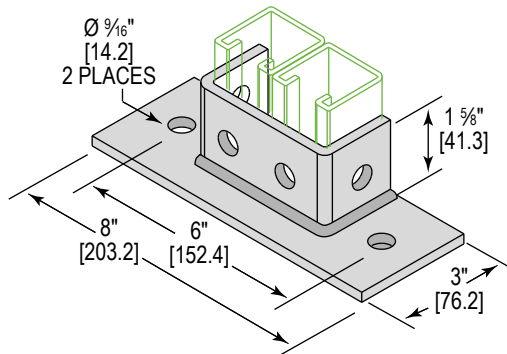
Post Base Double Channel
2 Hole Square Flush



Catalog Number: P23 0000EG
Weight: 3.2 Lbs.

P24

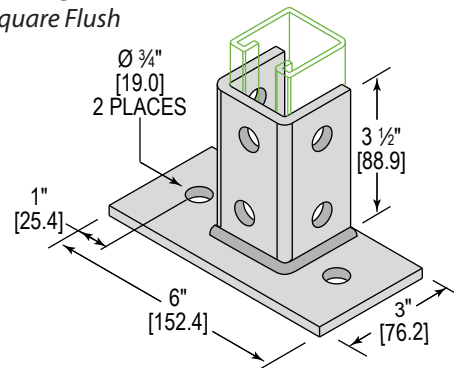
Post Base Double Channel
2 Hole Square Flush



Catalog Number: P24 0000EG
Weight: 2.5 Lbs.

P26

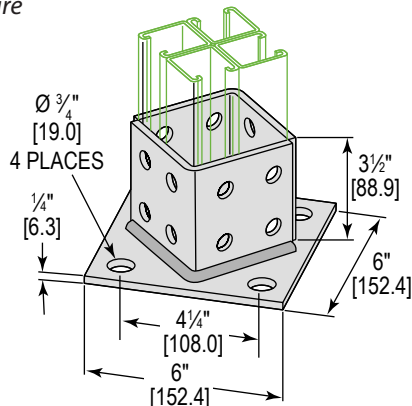
Post Base Single Channel
2 Hole Square Flush



Catalog Number: P26 0000EG
Weight: 3.12 Lbs.

P27

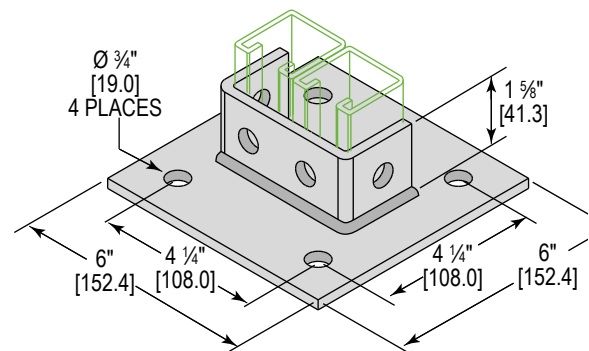
Post Base Four Channel Combinations
4 Hole Square



Catalog Number: P27 0000EG
Weight: 5.5 Lbs.

P28

Post Base Double Channel
4 Hole Square



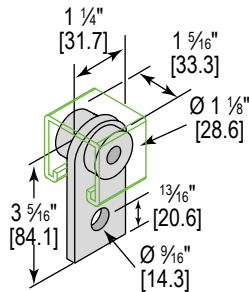
Catalog Number: P27 0000EG
Weight: 3.3 Lbs.

Rollers

Standard finish is Zinc Electroplate.
See page one for a listing of product finishes and materials.

R10

Roller Trolley 2 Bearing Assembly



Stainless steel ball bearings

Max load rating of 300 lbs. [1.33 kN] with 12ga channel

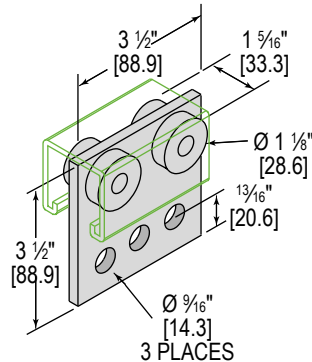
Based on standard dimensions for channel

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

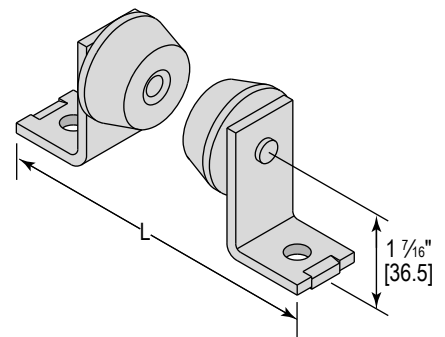
Based on standard dimensions for channel

Note: Also available in stainless steel

Catalog Number: R11 0000EG
Weight: 1.19 Lbs.

R20

Pipe Roller 1" - 4" Pipe

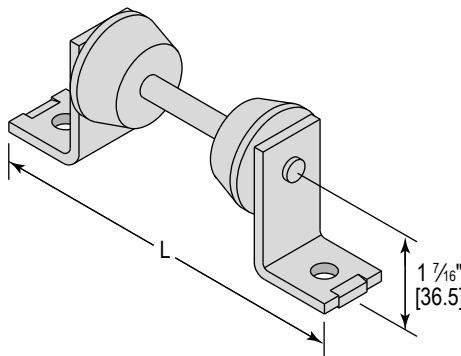


Max load rating of 500 lbs. [2.22 kN] with 12ga channel
See page 55 for dimensions L and CL

Catalog Number: R20 1040EG
Weight: 2.61 Lbs.

R21

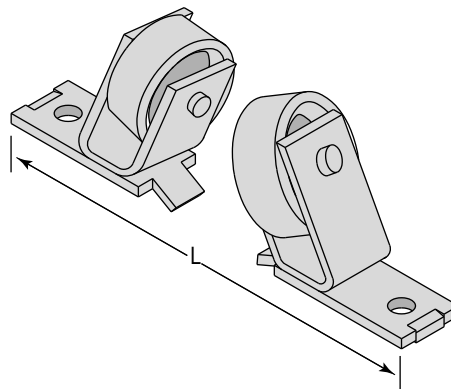
Pipe Roller



Max load rating of 750 lbs. [3.34 kN] with 12ga channel
See page 55 for dimensions L and CL (Center Line)

R22

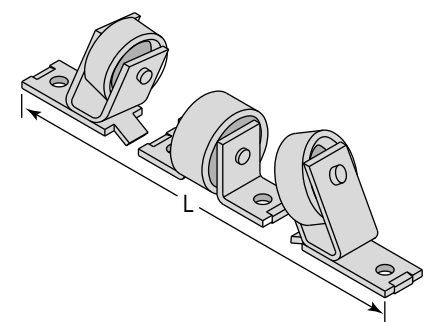
Pipe Roller Heavy Duty 6" - 16" Pipe



Max load rating of 1500 lbs. [6.67 kN] with 12ga channel
See page 56 for dimensions L and CL (Center Line)

R23

Pipe Roller Heavy Duty 16" - 24" Pipe



Max load rating of 2000 lbs. [8.90 kN] with 12ga channel
See page 56 for dimensions L and CL (Center Line)

Catalog Number	Wt. lbs	Pipe Sizes	
		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

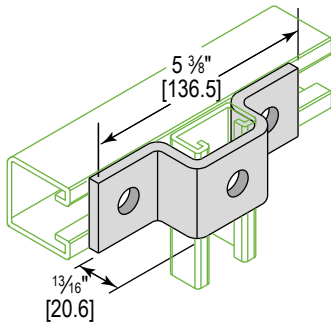
Catalog Number: R22 0000EG
Weight: 8.89 Lbs.

Catalog Number: R23 0000EG
Weight: 14.72 Lbs.

Standard finish is Zinc Electroplate.
See page one for a listing of product finishes and materials.

U10

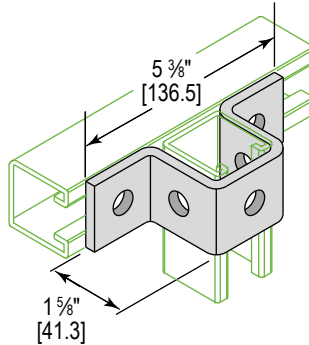
U-Fitting Cross 3 Hole $1\frac{3}{16}$ "



Catalog Number: U10 0000EG
Weight: 0.66 Lbs.

U11

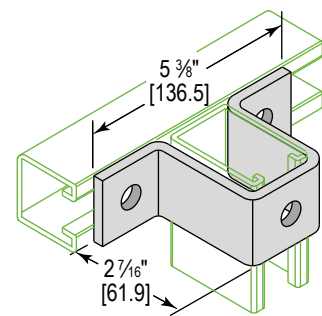
U-Fitting Cross 5 Hole $1\frac{5}{8}$ "



Catalog Number: U11 0000EG
Weight: 0.81 Lbs.

U12

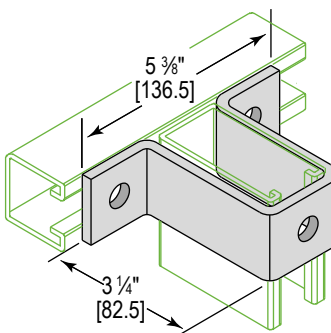
U-Fitting Cross 3 Hole $2\frac{7}{16}$ "



Catalog Number: U12 0000EG
Weight: 1.03 Lbs.

U13

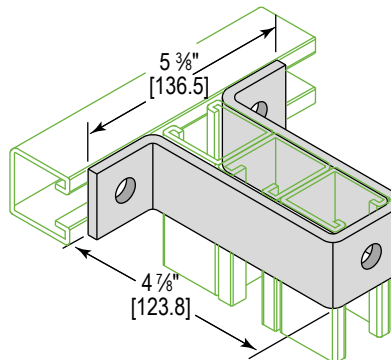
U-Fitting Cross 3 Hole $3\frac{1}{4}$ "



Catalog Number: U13 0000EG
Weight: 1.18 Lbs.

U14

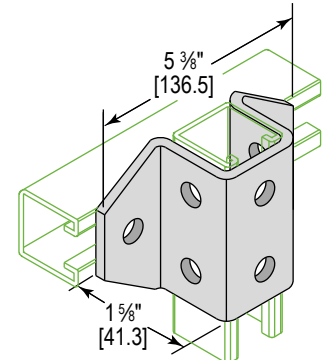
U-Fitting Cross 3 Hole $4\frac{7}{8}$ "



Catalog Number: U14 0000EG
Weight: 1.59 Lbs.

U15

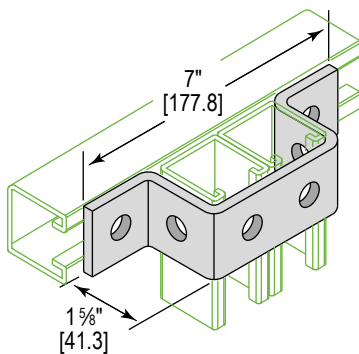
U-Fitting Cross 8 Hole $1\frac{5}{8}$ "



Catalog Number: U15 0000EG
Weight: 1.67 Lbs.

U16

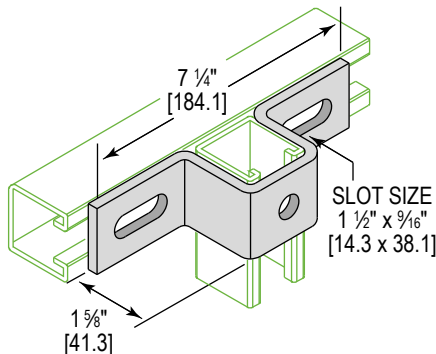
U-Fitting Cross 6 Hole
 $1\frac{5}{8}$ " Double Channel



Catalog Number: U16 0000EG
Weight: 0.95 Lbs.

U20

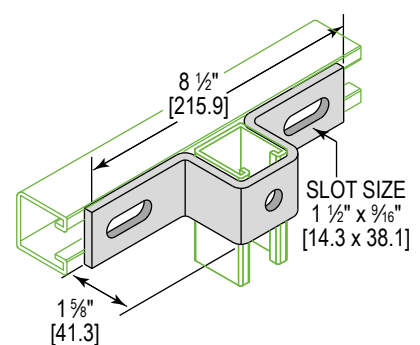
U-Fitting Cross 1 Hole 2 Slot
 $1\frac{5}{8}$ " X $7\frac{1}{4}$ "



Catalog Number: U20 0000EG
Weight: 0.98 Lbs.

U21

U-Fitting Cross 1 Hole 2 Slot
 $1\frac{5}{8}$ " X $8\frac{1}{2}$ "



Catalog Number: U21 0000EG
Weight: 1.15 Lbs.

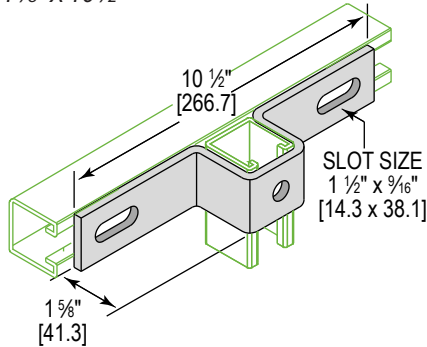
U Fittings

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

U22

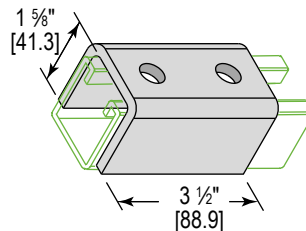
U-Fitting Cross 1 Hole 2 Slot
1 $\frac{5}{8}$ " X 10 $\frac{1}{2}$ "



Catalog Number: U22 0000EG
Weight: 1.35 Lbs.

U30

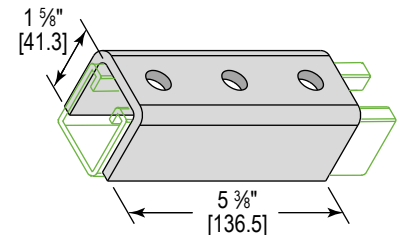
U-Fitting Splice 2 Hole
1 $\frac{5}{8}$ " Channel



Catalog Number: U30 0000EG
Weight: 1.19 Lbs.

U31

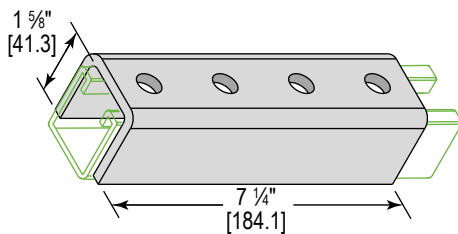
U-Fitting Splice 3 Hole
1 $\frac{5}{8}$ " Channel



Catalog Number: U31 0000EG
Weight: 1.83 Lbs.

U32

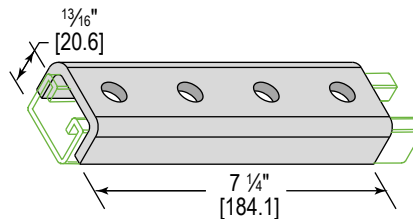
U-Fitting Splice 4 Hole
1 $\frac{5}{8}$ " Channel



Catalog Number: U32 0000EG
Weight: 2.44 Lbs.

U33

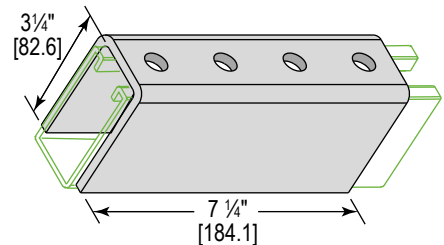
U-Fitting Splice 4 Hole
1 $\frac{3}{16}$ " Channel



Catalog Number: U33 0000EG
Weight: 1.63 Lbs.

U36

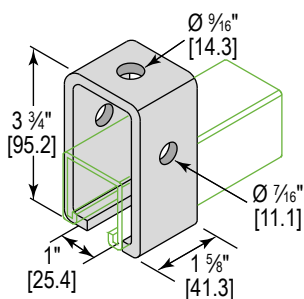
U-Fitting Splice 4 Hole
3 $\frac{1}{4}$ " Channel



Catalog Number: U36 0000EG
Weight: 3.8 Lbs.

U40

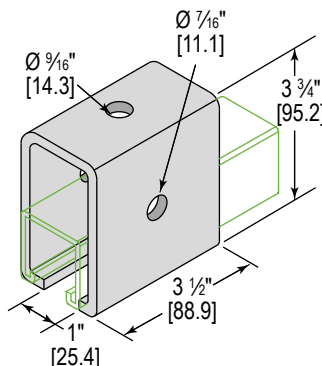
U-Fitting Trolley Support
3 Hole Standard



Catalog Number: U40 0000EG
Weight: 1 Lbs.

U41

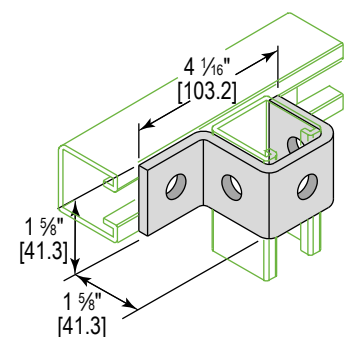
U-Fitting Trolley Support
3 Hole Heavy Duty



Catalog Number: U41 0000EG
Weight: 2.2 Lbs.

U50

U-Fitting 4 Hole Cup Support



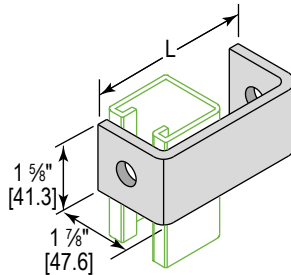
Catalog Number: U50 0000EG
Weight: 0.67 Lbs.

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

U60

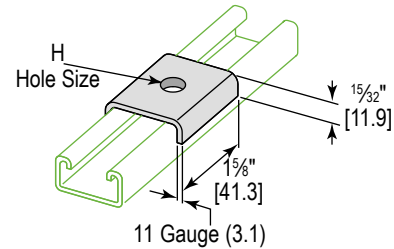
U-Fitting Clevis 2 Hole



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

U70

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

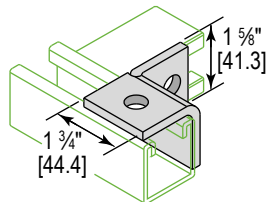
Wing Fittings

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

W10

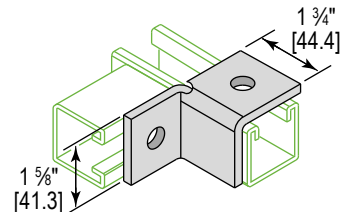
Wing Fitting Single Corner 2 Hole Right



Catalog Number: W10 0000EG
Weight: 0.53 Lbs.

W11

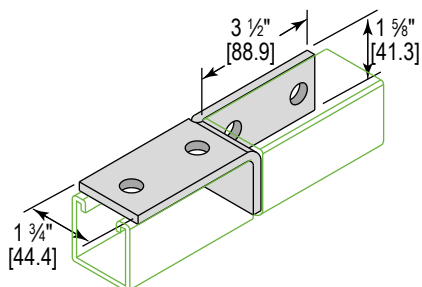
Wing Fitting Single Corner 2 Hole Left



Catalog Number: W11 0000EG
Weight: 0.53 Lbs.

W12

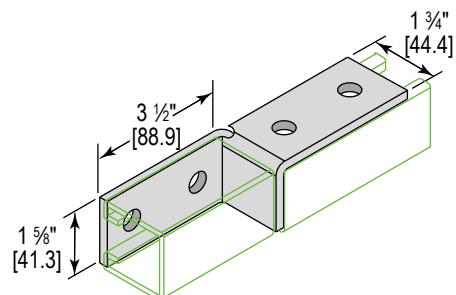
Wing Fitting Single Corner 4 Hole Right



Catalog Number: W12 0000EG
Weight: 0.97 Lbs.

W13

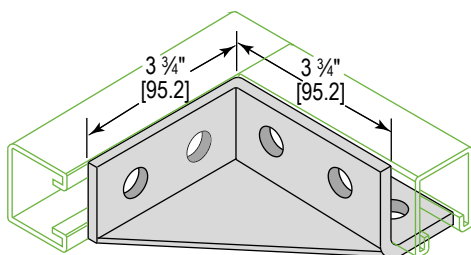
Wing Fitting Single Corner 4 Hole Left



Catalog Number: W13 0000EG
Weight: 0.86 Lbs.

W14

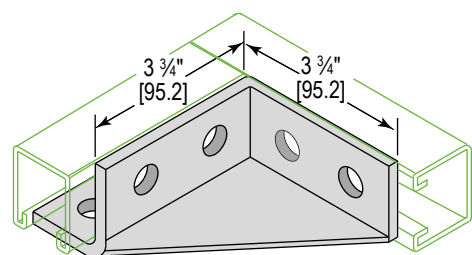
Wing Fitting Single Corner 6 Hole Gusset Right



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.

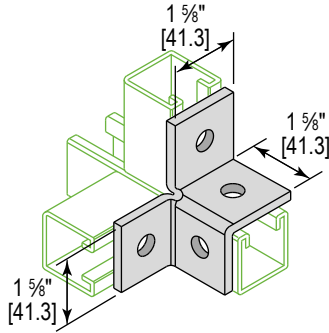


Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

W20

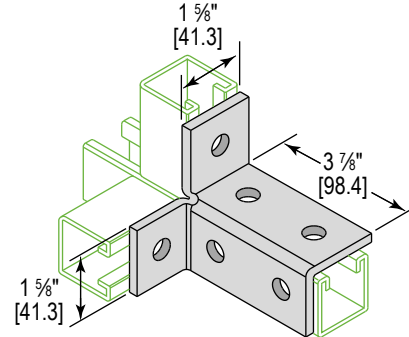
Wing Fitting Double Corner 4 Hole



Catalog Number: W20 0000EG
Weight: 0.69 Lbs.

W21

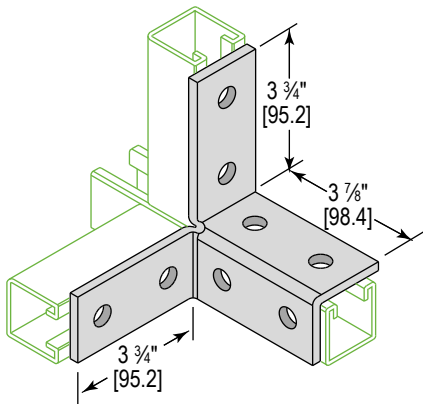
Wing Fitting Double Corner 6 Hole



Catalog Number: W21 0000EG
Weight: 1.12 Lbs.

W22

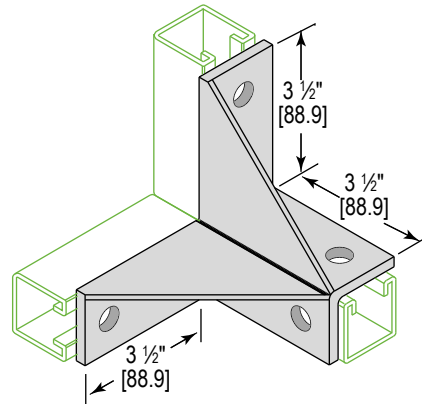
Wing Fitting Double Corner 8 Hole



Catalog Number: W22 0000EG
Weight: 1.47 Lbs.

W23

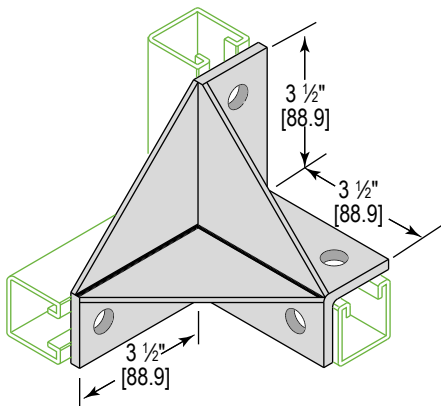
Wing Fitting Double Corner 8 Hole Gusset



Catalog Number: W23 0000EG
Weight: 2.05 Lbs.

W24

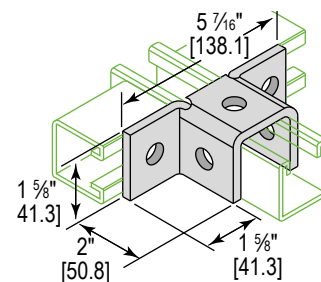
Wing Fitting Double Corner 8 Hole Double Gusset



Catalog Number: W24 0000EG
Weight: 2.26 Lbs.

W30

Wing Fitting Corner Connector 5 Hole Opposed



Catalog Number: W30 0000EG
Weight: 0.94 Lbs.

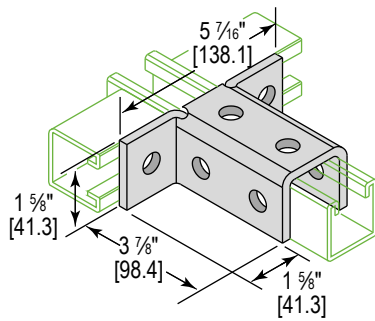
Wing Fittings

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

W31

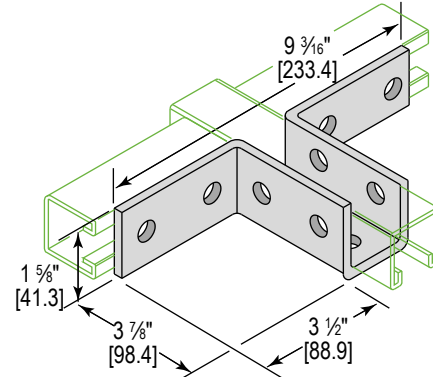
Wing Fitting Corner Connector 8 Hole Opposed



Catalog Number: W31 0000EG
Weight: 1.56 Lbs.

W32

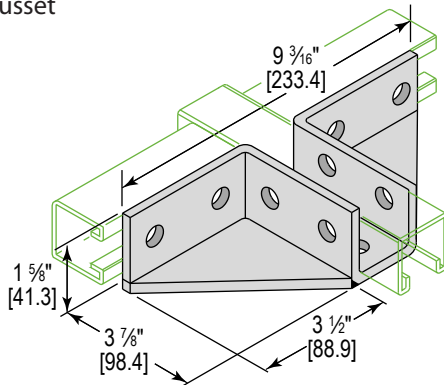
Wing Fitting Corner Connector 10 Hole Opposed



Catalog Number: W32 0000EG
Weight: 1.95 Lbs.

W33

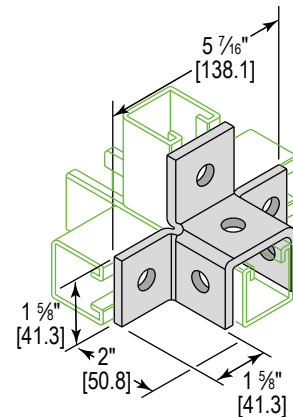
Wing Fitting Corner Connector 10 Hole Opposed
Double Gusset



Catalog Number: W33 0000EG
Weight: 2.94 Lbs.

W40

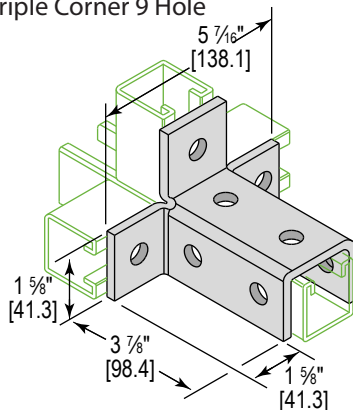
Wing Fitting Triple Corner 6 Hole



Catalog Number: W40 0000EG
Weight: 1.04 Lbs.

W41

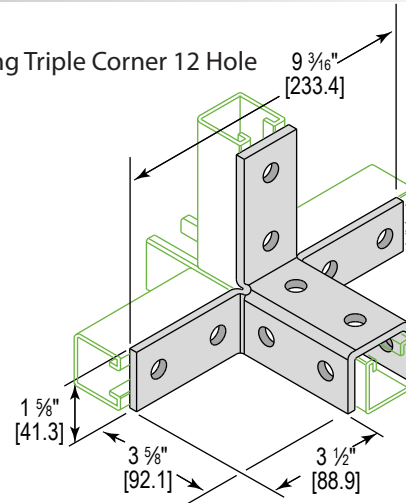
Wing Fitting Triple Corner 9 Hole



Catalog Number: W41 0000EG
Weight: 1.57 Lbs.

W42

Wing Fitting Triple Corner 12 Hole



Catalog Number: W42 0000EG
Weight: 2.34 Lbs.

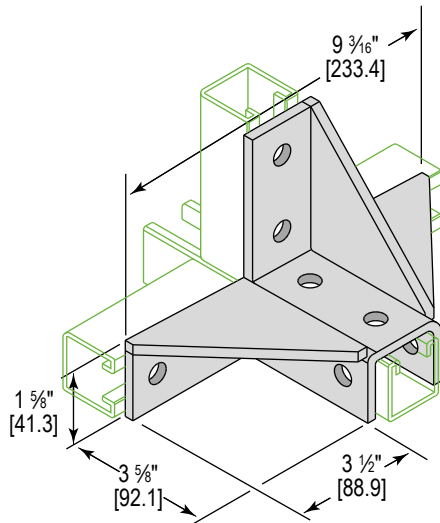


Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

W43

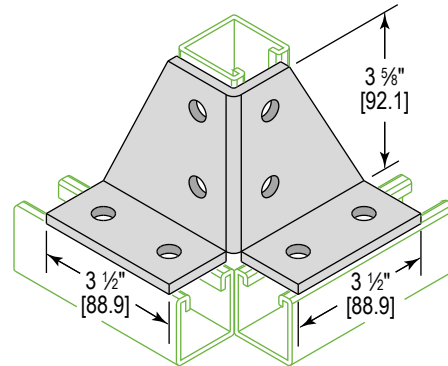
Wing Fitting Triple Corner 12 Hole Gusset



Catalog Number: W43 0000EG
Weight: 2.85 Lbs.

W50

Wing Fitting Double Corner Connector 8 Hole



Catalog Number: W50 0000EG
Weight: 2.14 Lbs.

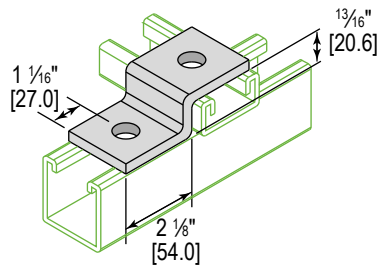
Z Fittings

Standard finish is Zinc Electroplate.

See page one for a listing of product finishes and materials.

Z10

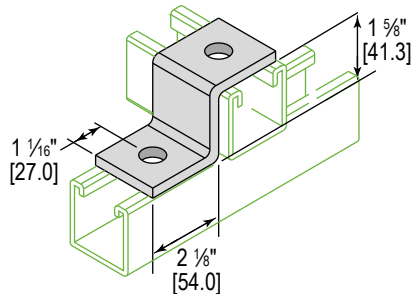
Z Fitting Cross 2 Hole $1\frac{3}{16}"$



Catalog Number: Z10 0000EG
Weight: 0.41 Lbs.

Z11

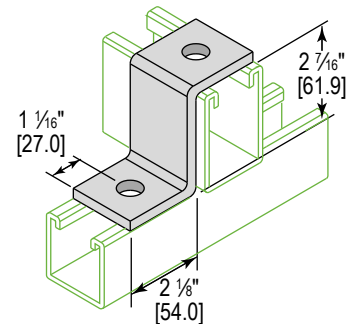
Z Fitting Cross 2 Hole $1\frac{5}{8}"$



Catalog Number: Z11 0000EG
Weight: 0.48 Lbs.

Z12

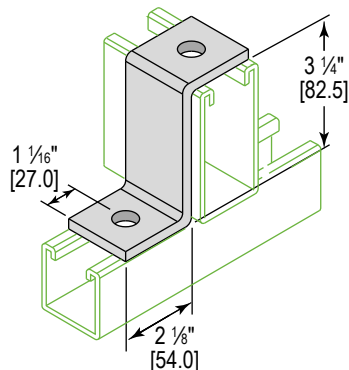
Z Fitting Cross 2 Hole $2\frac{7}{16}"$



Catalog Number: Z12 0000EG
Weight: 0.54 Lbs.

Z13

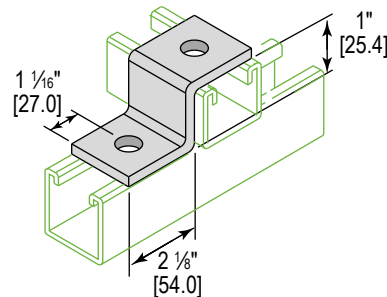
Z Fitting Cross 2 Hole $3\frac{1}{4}"$



Catalog Number: Z13 0000EG
Weight: 0.67 Lbs.

Z14

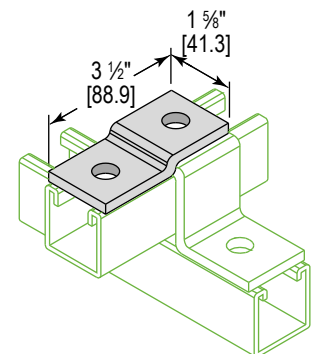
Z Fitting Cross 2 Hole 1"



Catalog Number: Z14 0000EG
Weight: 0.45 Lbs.

Z20

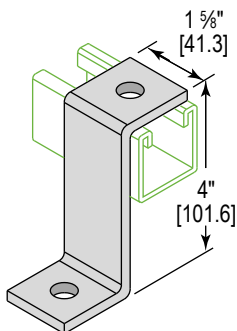
Z Fitting Offset Support 2 Hole



Catalog Number: Z20 0000EG
Weight: 0.35 Lbs.

Z30

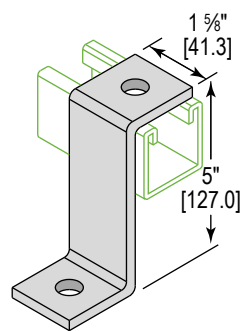
Z Fitting 2 Hole Support 4"



Catalog Number: Z30 0000EG
Weight: 0.77 Lbs.

Z31

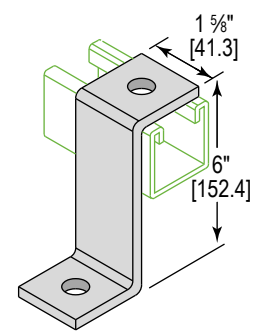
Z Fitting 2 Hole Support 5"



Catalog Number: Z31 0000EG
Weight: 0.95 Lbs.

Z32

Z Fitting 2 Hole Support 6"

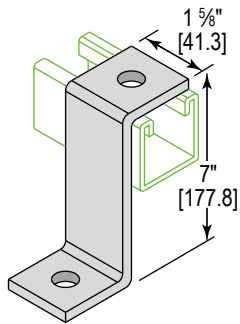


Catalog Number: Z32 0000EG
Weight: 0.98 Lbs.

Standard finish is Zinc Electroplate.
 See page one for a listing of product finishes and materials.

Z33

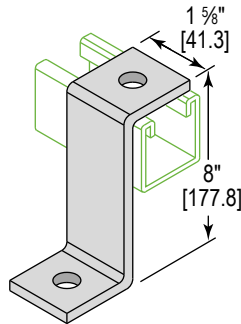
Z Fitting 2 Hole Support 7"



Catalog Number: Z33 0000EG
 Weight: 1.07 Lbs.

Z34

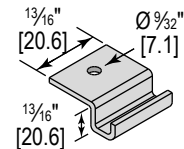
Z Fitting 2 Hole Support 8"



Catalog Number: Z34 0000EG
 Weight: 1.23 Lbs.

Z40

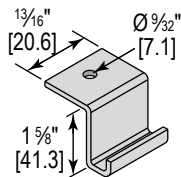
Z Fitting Channel Hanger 13/16"



Catalog Number: Z40 0000EG
 Weight: 0.083 Lbs.

Z41

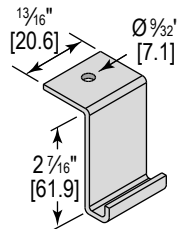
Z Fitting Channel Hanger 1 5/8"



Catalog Number: Z41 0000EG
 Weight: 0.09 Lbs.

Z42

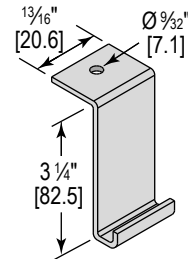
Z Fitting Channel Hanger 2 7/16"



Catalog Number: Z42 0000EG
 Weight: 0.112 Lbs.

Z43

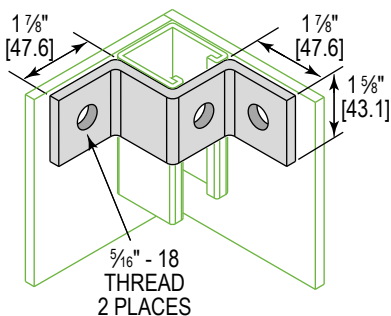
Z Fitting Channel Hanger 3 1/4"



Catalog Number: Z43 0000EG
 Weight: 0.134 Lbs.

Z50

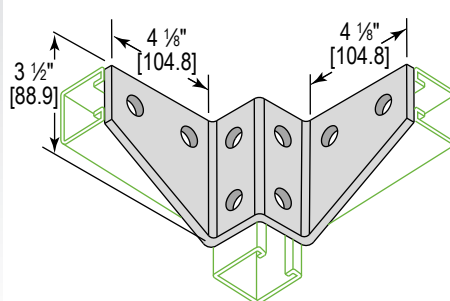
Z Fitting Corner Brace 3 Hole



Catalog Number: Z50 0000EG
 Weight: 0.67 Lbs.

Z51

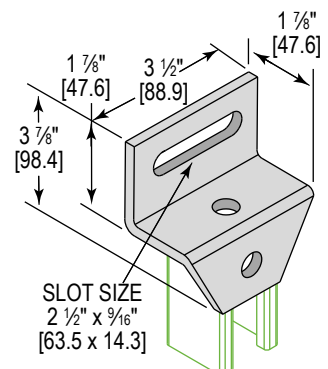
Z Fitting Corner Brace 8 Hole



Catalog Number: Z51 0000EG
 Weight: 2.03 Lbs.

Z60

Z Fitting Slotted Support



Catalog Number: Z60 0000EG
 Weight: 0.97 Lbs.

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
3/4	0	0.0	1 ¹ / ₁₆	27.0	6 ¹ / ₂	165.1	2 ¹⁵ / ₁₆	74.6
	7/8	22.2	3 ¹ / ₄	82.6	6 ¹ / ₂	165.1	4 ¹ / ₈	104.8
	1 ⁷ / ₁₆	36.5	4 ³ / ₈	111.1	8 ¹ / ₄	209.6	4 ⁷ / ₁₆	112.7
	1 ⁷ / ₈	47.6	5 ³ / ₈	136.5	8 ¹ / ₄	209.6	4 ¹⁵ / ₁₆	125.4
1	0	0.0	1 ⁵ / ₁₆	33.3	6 ¹ / ₂	165.1	3 ¹ / ₈	79.4
	1 ¹ / ₁₆	27.0	3 ⁵ / ₈	92.1	7 ¹ / ₄	184.2	4 ¹ / ₄	108.0
	1 ⁹ / ₁₆	39.7	4 ⁵ / ₈	117.5	8 ¹ / ₄	209.6	4 ⁹ / ₁₆	115.9
	2 ¹ / ₈	54.0	5 ³ / ₄	146.1	8 ¹ / ₄	209.6	5 ¹ / ₈	130.2
1 ¹ / ₄	0	0.0	1 ¹¹ / ₁₆	42.9	6 ¹ / ₂	165.1	3 ⁵ / ₁₆	84.1
	7/8	22.2	3 ⁷ / ₈	98.4	7 ¹ / ₄	184.2	4 ⁵ / ₁₆	109.5
	1 ⁵ / ₈	41.3	5 ¹ / ₈	130.2	8 ¹ / ₄	209.6	4 ¹³ / ₁₆	122.2
	1 ¹⁵ / ₁₆	49.2	6	152.4	8 ¹ / ₄	209.6	5 ¹ / ₄	133.4
	2 ⁷ / ₁₆	61.9	7 ¹ / ₂	190.5	9 ¹ / ₄	235.0	5 ⁷ / ₈	149.2
1 ¹ / ₂	0	0.0	1 ⁷ / ₈	47.6	6 ¹ / ₂	165.1	3 ³ / ₈	85.7
	1	25.4	4 ¹ / ₄	108.0	8 ¹ / ₄	209.6	4 ³ / ₈	111.1
	1 ¹ / ₂	38.1	5 ¹ / ₄	133.4	8 ¹ / ₄	209.6	4 ⁷ / ₈	123.8
	2 ⁵ / ₁₆	58.7	6 ⁵ / ₈	168.3	9 ¹ / ₄	235.0	5 ⁷ / ₁₆	138.1
	2 ¹³ / ₁₆	71.4	7 ³ / ₄	196.9	9 ¹ / ₄	235.0	6	152.4
2	0	0.0	2 ³ / ₈	60.3	6 ¹ / ₂	165.1	3 ¹¹ / ₁₆	93.7
	1 ¹ / ₁₆	27.0	4 ³ / ₄	120.7	8 ¹ / ₄	209.6	4 ⁵ / ₈	117.5
	1 ⁹ / ₁₆	39.7	5 ³ / ₄	146.1	8 ¹ / ₄	209.6	5 ¹ / ₈	130.2
	2 ¹ / ₈	54.0	7 ¹ / ₈	181.0	9 ¹ / ₄	235.0	5 ¹¹ / ₁₆	144.5
	2 ⁵ / ₈	66.7	8 ¹ / ₈	206.4	10 ¹ / ₈	257.2	6 ¹ / ₁₆	154.0
	3 ¹ / ₈	79.4	9 ¹ / ₈	231.8	10 ¹ / ₈	257.2	6 ⁵ / ₈	168.3
2 ¹ / ₂	0	0.0	2 ⁷ / ₈	73.0	6 ¹ / ₂	165.1	3 ¹⁵ / ₁₆	100.0
	1 ¹ / ₁₆	27.0	5 ³ / ₈	136.5	8 ¹ / ₄	209.6	4 ¹⁵ / ₁₆	125.4
	1 ⁷ / ₈	47.6	6 ⁵ / ₈	168.3	9 ¹ / ₄	235.0	5 ⁷ / ₁₆	138.1
	2 ⁵ / ₁₆	58.7	7 ³ / ₄	196.9	9 ¹ / ₄	235.0	6	152.4
	2 ⁷ / ₈	73.0	8 ¹ / ₂	215.9	9 ¹ / ₄	235.0	6 ⁷ / ₁₆	163.5
	3 ³ / ₈	85.7	9 ³ / ₄	247.7	9 ¹ / ₄	235.0	7 ¹ / ₁₆	179.4
3	0	0.0	3 ¹ / ₂	88.9	7 ¹ / ₄	184.2	4 ¹ / ₈	104.8
	1	25.4	5 ⁷ / ₈	149.2	8 ¹ / ₄	209.6	5 ¹ / ₄	133.4
	1 ⁹ / ₁₆	39.7	7 ¹ / ₄	184.2	9 ¹ / ₄	235.0	5 ³ / ₄	146.1
	2 ¹ / ₁₆	52.4	8 ¹ / ₄	209.6	10 ¹ / ₈	257.2	6 ¹ / ₈	155.6
	2 ⁹ / ₁₆	65.1	9 ³ / ₈	238.1	10 ¹ / ₈	257.2	6 ³ / ₄	171.5
	3 ¹ / ₁₆	77.8	10 ¹ / ₈	257.2	10 ⁷ / ₈	276.2	7	177.8

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



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 ⁵ / ₈	168.3	9 ⁵ / ₁₆	236.5	7	177.8
	1	25.4	9	228.6				
	1 ¹ / ₂	38.1	10 ¹ / ₈	257.2				
	2	50.8	11	279.4				
	2 ¹ / ₂	63.5	12 ³ / ₈	314.3				
	3	76.2	13 ¹ / ₈	333.4				
	4 ¹ / ₈	104.8	15 ¹ / ₈	384.2				
8	0	0.0	8 ⁵ / ₈	219.1	10	254.0	7 ¹⁵ / ₁₆	201.6
	1 ¹ / ₂	38.1	12	304.8				
	2	50.8	13	330.2				
	2 ¹ / ₁₆	68.3	14 ¹ / ₂	368.3				
	3 ¹ / ₈	79.4	15 ³ / ₈	390.5				
	4 ³ / ₁₆	106.4	17 ³ / ₈	441.3				
10	0	0.0	10 ³ / ₄	273.1	10 ¹¹ / ₁₆	271.5	8 ¹⁵ / ₁₆	227.0
	1 ⁹ / ₁₆	39.7	14 ¹ / ₂	368.3				
	2 ¹ / ₁₆	52.4	15 ¹ / ₄	387.4				
	2 ⁹ / ₁₆	65.1	16 ¹ / ₄	412.8				
	3 ¹ / ₁₆	77.8	17 ³ / ₈	441.3				
	4 ¹ / ₁₆	103.2	19 ¹ / ₂	495.3				
12	0	0.0	12 ³ / ₄	323.9	11 ³ / ₈	288.9	9 ⁷ / ₈	250.8
	1 ⁹ / ₁₆	39.7	16 ¹ / ₈	409.6				
	2 ¹ / ₁₆	52.4	17 ¹ / ₄	438.2				
	2 ⁵ / ₈	66.7	18 ¹ / ₄	463.6				
	3 ¹ / ₁₆	77.8	19 ¹ / ₄	489.0				
	4 ¹ / ₈	104.8	20 ³ / ₈	517.5				
14	0	0.0	14	355.6	12 ¹ / ₁₆	306.4	10 ⁷ / ₁₆	265.1
	1 ¹ / ₂	38.1	17 ¹ / ₂	444.5				
	2	50.8	18 ⁵ / ₈	473.1				
	2 ¹ / ₂	63.5	19 ³ / ₄	501.7				
	3	76.2	20 ⁵ / ₈	523.9				
	4	101.6	22 ⁵ / ₈	574.7				
16	0	0.0	16	406.4	12 ³ / ₄	323.9	11 ³ / ₈	288.9
	1 ¹ / ₂	38.1	19 ⁵ / ₈	498.5				
	2	50.8	20 ³ / ₈	517.5				
	2 ¹ / ₂	63.5	21 ⁵ / ₈	549.3				
	3	76.2	22 ¹ / ₈	562.0				
	4	101.6	24 ³ / ₈	619.1				

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
18	0	0.0	18	457.2	12 ³ / ₄	323.9	12 ¹ / ₄	311.2
	1 ¹ / ₂	38.1	21 ⁵ / ₈	549.3				
	2	50.8	22 ⁵ / ₈	574.7				
	2 ¹ / ₂	63.5	23 ¹ / ₄	590.6				
	3	76.2	24 ¹ / ₄	616.0				
	4	101.6	26 ⁵ / ₈	676.3				
20	0	0.0	20	508.0	14 ¹ / ₈	358.8	13 ¹ / ₄	336.6
	1 ¹ / ₂	38.1	23 ¹ / ₄	590.6				
	2	50.8	24 ¹ / ₂	622.3				
	2 ¹ / ₂	63.5	25 ¹ / ₂	647.7				
	3	76.2	26 ⁵ / ₈	676.3				
	4	101.6	28 ¹ / ₄	717.6				
24	0	0.0	24	609.6	14 ¹³ / ₁₆	376.2	15 ¹ / ₄	387.4
	1 ¹ / ₂	38.1	27	685.8				
	2	50.8	28	711.2				
	2 ¹ / ₂	63.5	29 ¹ / ₄	743.0				
	3	76.2	30 ¹ / ₂	774.7				
	4	101.6	32 ⁷ / ₈	835.0				
30	0	0.0	30	762.0	15 ⁷ / ₈	403.2	16 ¹ / ₄	412.8



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

O.D.		Description
in	mm	
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
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

O.D.		Description
in	mm	
5.625	142.9	SCO
5.750	146.1	SCO
5.875	149.2	SCO
6.000	152.4	SCO
6.125	155.6	SCO / 6" SCC
6.250	158.8	SCO
6.375	161.9	SCO
6.500	165.1	SCO
6.625	168.3	SCO / 6" SCR
6.750	171.5	SCO
6.875	174.6	SCO
7.000	177.8	SCO
7.125	181.0	SCO / 7" SCC
7.250	184.2	SCO
7.375	187.3	SCO
7.500	190.5	SCO
7.625	193.7	SCO
7.750	196.9	SCO
7.875	200.0	SCO
8.000	203.2	SCO
8.125	206.4	SCO / 8" SCC
8.250	209.6	SCO
8.375	212.7	SCO
8.500	215.9	SCO
8.625	219.1	SCO / 8" SCR
8.750	222.3	SCO
8.875	225.4	SCO
9.000	228.6	SCO
9.125	231.8	SCO
10.750	273.1	10" SCR
12.750	323.9	12" SCR

General Information

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

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

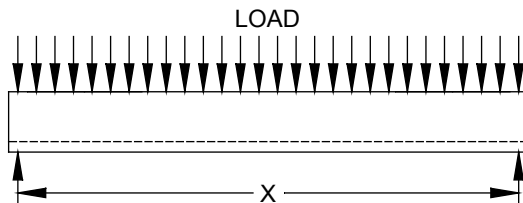
For beam clamps or other applications the following torque values from Manufacturer's Standardization Society (MSS) SP-69 are recommended unless otherwise specified.

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

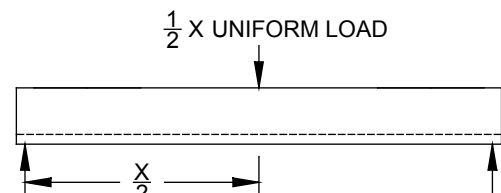
Note: Caution should be taken not to over tighten the set screw on iron beam clamps as this will cause distortion, a lower maximum load capability and possible breakage.

Uniform load and Point load

When a distributed load has a constant value over the entire bracket or beam length, it is said to be uniformly loaded. This would be similar to loading identical boxes on a shelf side by side. A point load is when the force of the load is concentrated on one point along the bracket or beam. Using identical supports as shown below and the point load located $\frac{1}{2}$ way between the supports, the point load rating will be $\frac{1}{2}$ the uniform load rating. Load ratings are generally listed in pounds (lb.) or kilo Newtons (kN).



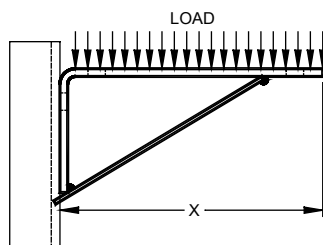
Uniform load



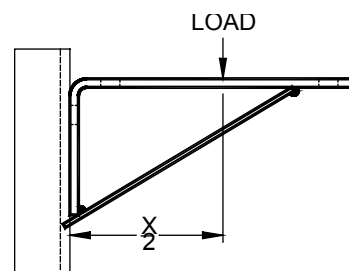
Point load

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



Cantilever load (Figure "A")



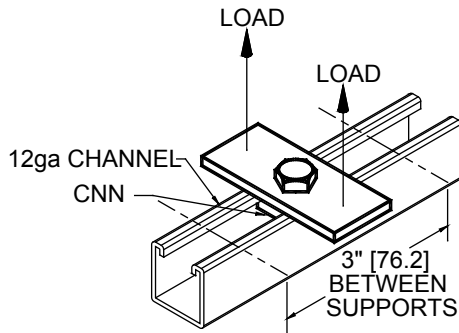
Cantilever load (Figure "B")



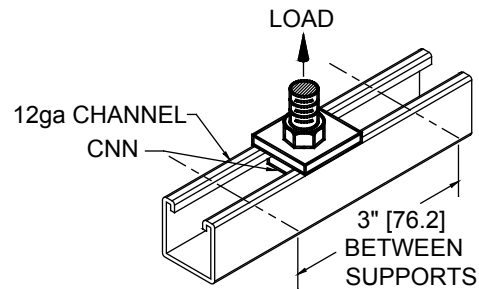
General Information (cont.)

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 59 for MFMA torque values.

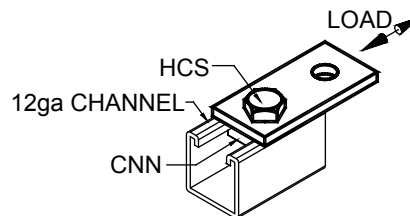


Pullout Test with Load on Fitting.



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.

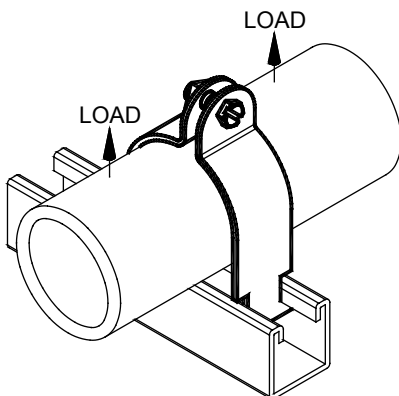


Slip Test for Strut Fittings

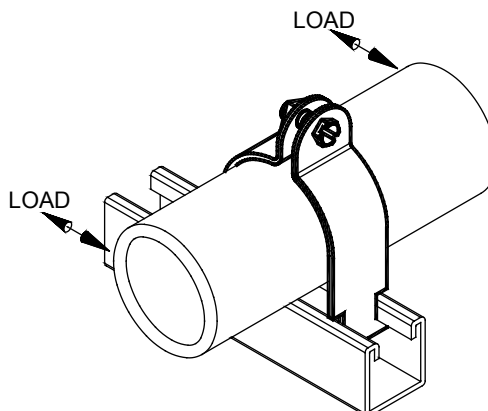
Testing Methods for Strut Clamps:

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



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CI21	Concrete End Cap Anchor	38	L12	3 Hole Corner Angle	20
CIN	Concrete Insert Nut	38	L13	4 Hole Corner Angle	20
CIT	Therma-shield Clamp	13	L14	2 Hole 3" Corner Angle	20
CLC, CLE	Clutch Clamp for Tube and EMT Conduit	13	L15	2 Hole 3 $\frac{1}{2}$ " Corner Angle	20
CND	Channel Stud Nut Regular Spring	6	L16	2 Hole 4" Corner Angle	20
CNL	Channel Nut Long Spring	6	L20	2 Hole Cross Corner Angle	20
CNL [D]	Channel Nut Long Spring, Domestic	5	L21	3 Hole Corner Angle	20
CNN	Channel Nut No Spring	6	L22	3 Hole Cross Gusset Corner Angle	21
CNN [D]	Channel Nut No Spring, Domestic	5	L23	5 Hole Cross Gusset Corner Angle	21
CNR	Channel Nut Regular Spring	6	L24	4 Hole Angle	21
CNR [D]	Channel Nut Regular Spring, Domestic	5	L30	3 Hole 3 Way Corner Angle	21
CNS	Channel Nut Short Spring	6	L31	4 Hole 3 Way Corner Angle	21
CNS [D]	Channel Nut Short Spring, Domestic	5	L32	4 Hole 3 Way Gusset Corner Angle	21
CNT	Channel Nut Top Spring	6	L33	5 Hole 3 Way Gusset Corner Angle	21
CNT [D]	Channel Nut Top Spring, Domestic	5	L34	7 Hole Universal Gusset Corner Angle	21



Part	Description	Page	Part	Description	Page
L35	4 Hole Gusset Corner Angle Left	21	SW11	Swivel Male	7
L36	4 Hole Gusset Corner Angle Right	22	SW12	Swivel Female – Female	8
L40	2 Hole 2 $\frac{5}{8}$ " Adjustable Corner Angle	22	SW13	Swivel Male – Female	8
L41	2 Hole 4 $\frac{7}{8}$ " Adjustable Corner Angle	22	TC1	O.D. Tubing Clamp	16
L42	2 Hole 6 $\frac{7}{8}$ " Adjustable Corner Angle	22	U10	U-Fitting Cross 3 Hole 1 $\frac{3}{16}$ "	46
L43	3 Hole Adjustable Corner Angle	22	U11	U-Fitting Cross 5 Hole 1 $\frac{5}{8}$ "	46
L44	2 Hole Adjustable Gusset Corner Angle	22	U12	U-Fitting Cross 3 Hole 2 $\frac{7}{16}$ "	46
L45	4 Hole 6 $\frac{5}{8}$ " Adjustable Gusset Corner Angle	22	U13	U-Fitting Cross 3 Hole 3 $\frac{1}{4}$ "	46
L46	4 Hole 8 $\frac{5}{8}$ " Adjustable Corner Angle	23	U14	U-Fitting Cross 3 Hole 4 $\frac{7}{8}$ "	46
L50	4 Hole Offset Corner Angle	23	U15	U-Fitting Cross 8 Hole 1 $\frac{5}{8}$ "	46
L51	4 Hole Offset Bent Tee (left hand)	23	U16	U-Fitting Cross 6 Hole	46
L52	4 Hole Offset Bent Tee (right hand)	23	U20	U-Fitting Cross 1 Hole 2 Slot	46
L60	2 Hole Open 45 Degree Corner Angle	23	U21	U-Fitting Cross 1 Hole 2 Slot	46
L61	2 Hole Closed 45 Degree Corner Angle	23	U22	U-Fitting Cross 1 Hole 2 Slot	47
L62	4 Hole Open 45 Degree Corner Angle	24	U30	U-Fitting Splice 2 Hole	47
L63	4 Hole Closed 45 Degree Corner Angle	24	U31	U-Fitting Splice 3 Hole	47
L64	4 Hole Adjustable Corner Angle	24	U32	U-Fitting Splice 4 Hole	47
L65	3 Hole Adjustable Corner Angle	24	U33	U-Fitting Splice 4 Hole	47
L70	1 Hole 3 $\frac{7}{8}$ " Corner Angle	25	U36	U-Fitting Splice 4 Hole	47
L71	1 Hole 5 $\frac{7}{8}$ " Corner Angle	25	U40	U-Fitting Trolley Support	47
L72	1 Hole 7 $\frac{7}{8}$ " Corner Angle	25	U41	U-Fitting Trolley Support	47
L73	1 Hole 9 $\frac{7}{8}$ " Corner Angle	25	U50	U-Fitting 4 Hole Cup Support	47
L80	8" Angle Brace	25	U60	U-Fitting Clevis 2 Hole	48
L81	12" Angle Brace	25	U70	U-Shaped Washers	48
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L83	18" Angle Brace	25	W11	Wing Fitting Single Corner 2 Hole Left	49
L84	24" Angle Brace	25	W12	Wing Fitting Single Corner 4 Hole Right	49
P10	Post Base Single Channel	42	W13	Wing Fitting Single Corner 4 Hole Left	49
P11	Post Base Single Channel	42	W14	Wing Fitting Single Corner 6 Hole Gusset Right	49
P12	Post Base Single Channel	42	W15	Wing Fitting Single Corner 6 Hole Gusset Left	49
P13	Post Base Single Channel	42	W20	Wing Fitting Double Corner 4 Hole	50
P14	Post Base Single Channel	42	W21	Wing Fitting Double Corner 6 Hole	50
P15	Post Base Single Channel Gusset	42	W22	Wing Fitting Double Corner 8 Hole	50
P16	Post Base Double Channel	43	W23	Wing Fitting Double Corner 8 Hole Gusset	50
P17	Post Base Double Channel	43	W24	Wing Fitting Double Corner 8 Hole Double Gusset	50
P18	Post Base Double Channel	43	W30	Wing Fitting Corner Connector 5 Hole Opposed	50
P19	Post Base Double Channel	43	W31	Wing Fitting Corner Connector 8 Hole Opposed	51
P20	Post Base Double Channel	43	W32	Wing Fitting Corner Connector 10 Hole Opposed	51
P21	Post Base Single Channel	43	W33	Wing Fitting Corner Connector 10 Hole Opposed	51
P22	Post Base Single Channel	44	W40	Wing Fitting Triple Corner 6 Hole	51
P23	Post Base Double Channel	44	W41	Wing Fitting Triple Corner 9 Hole	51
P24	Post Base Double Channel	44	W42	Wing Fitting Triple Corner 12 Hole	51
P26	Post Base Single Channel	44	W43	Wing Fitting Triple Corner 12 Hole Gusset	52
P27	Post Base Four Channel Combinations	44	W50	Wing Fitting Double Corner Connector 8 Hole	52
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PS2	Pipe Strap	16	Z12	Z Fitting Cross 2 Hole 2 $\frac{7}{16}$ "	53
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R10	Roller Trolley 2 Bearing Assembly	45	Z14	Z Fitting Cross 2 Hole 1"	53
R11	Roller Trolley 4 Bearing Assembly	45	Z20	Z Fitting Offset Support 2 Hole	53
R20	Pipe Roller 1" - 4" Pipe	45	Z30	Z Fitting 2 Hole Support 4"	53
R21	Pipe Roller	45	Z31	Z Fitting 2 Hole Support 5"	53
R22	Pipe Roller Heavy Duty 6" - 16" Pipe	45	Z32	Z Fitting 2 Hole Support 6"	53
R23	Pipe Roller Heavy Duty 16" - 24" Pipe	45	Z33	Z Fitting 2 Hole Support 7"	54
RA	Right Angle Clamp	33	Z34	Z Fitting 2 Hole Support 8"	54
RC	Rod Coupling	8	Z40	Z Fitting Channel Hanger 1 $\frac{3}{16}$ "	54
SCC	Copper Tubing Strut Clamp	10	Z41	Z Fitting Channel Hanger 1 $\frac{5}{8}$ "	54
SCE	EMT Strut Clamp	10	Z42	Z Fitting Channel Hanger 2 $\frac{7}{16}$ "	54
SCH	One Piece Universal Strut Clamps	10	Z43	Z Fitting Channel Hanger 3 $\frac{1}{4}$ "	54
SCO	O.D. Strut Clamp	11	Z50	Z Fitting Corner Brace 3 Hole	54
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9. RETURNS: No returns will be accepted by PHOENIX SUPPORT SYSTEMS without prior written authorization. Except for in-warranty returns, Buyer will be responsible for all applicable restocking and other charges. PHOENIX SUPPORT SYSTEMS will upon request furnish Buyer a Return Material Authorization form listing terms and procedures governing returns. A minimum restocking charge of 25% will apply.

10. TELEPHONED INSTRUCTIONS: PHOENIX SUPPORT SYSTEMS accepts no responsibility and Buyer will not hold PHOENIX SUPPORT SYSTEMS responsible for errors or misunderstandings, whether or not due to PHOENIX SUPPORT SYSTEMS' negligence, in complying with orders or instructions to PHOENIX SUPPORT SYSTEMS by telephone. The foregoing also applies to orders or instructions given to a third party for transmittal to PHOENIX SUPPORT SYSTEMS.

11. DIES, TOOLS, ETC: Charges for dies, tools or gages do not convey to Buyer any interest therein or the right to remove them from PHOENIX SUPPORT SYSTEMS' plant.

12. TOLERANCES: Unless otherwise agreed in writing, all tolerances and dimensions will be to standards customarily employed by PHOENIX SUPPORT SYSTEMS.

13. SPECIAL OR MODIFIED PRODUCTS: Products not cataloged or products cataloged but requiring deviation from standard are subject to applicable pattern, tooling and test charges.

14. MODIFIED OR DISCONTINUED PRODUCTS: PHOENIX SUPPORT SYSTEMS shall have no duty to stock or provide spare or replacement parts or products. PHOENIX SUPPORT SYSTEMS may modify or discontinue any product or line of products at any time without liability except to refund any amounts already paid for any such products, which have been ordered but not yet delivered.

15. EQUAL EMPLOYMENT OPPORTUNITY: The Equal Employment Opportunity Clause in Section 202 of Executive Order No. 11246, as amended, relating to equal employment opportunity and the implementing rules and regulations of the Office of Federal Contract Compliance are incorporated herein by specific reference.

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