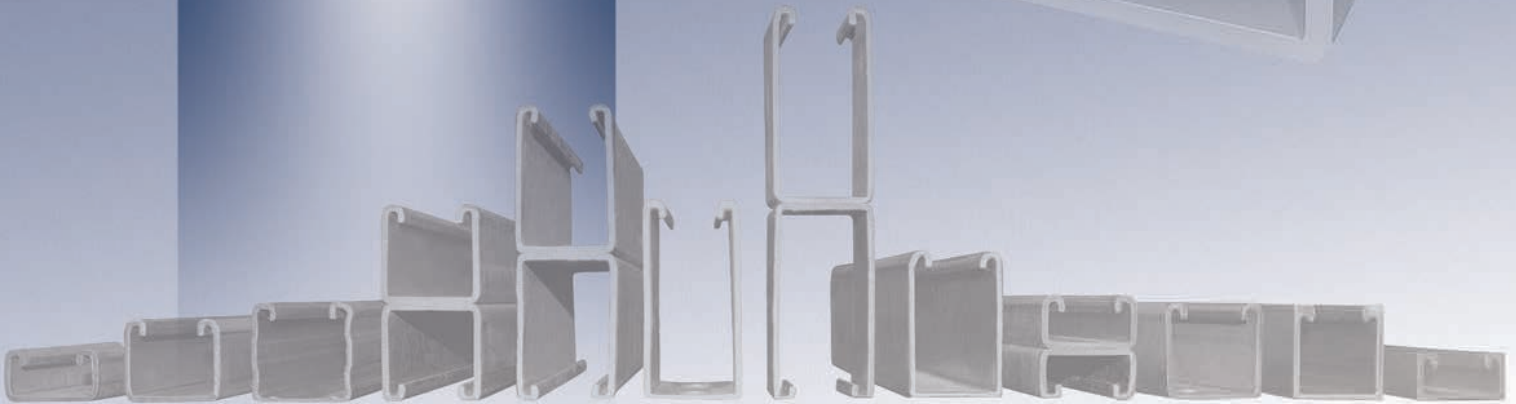
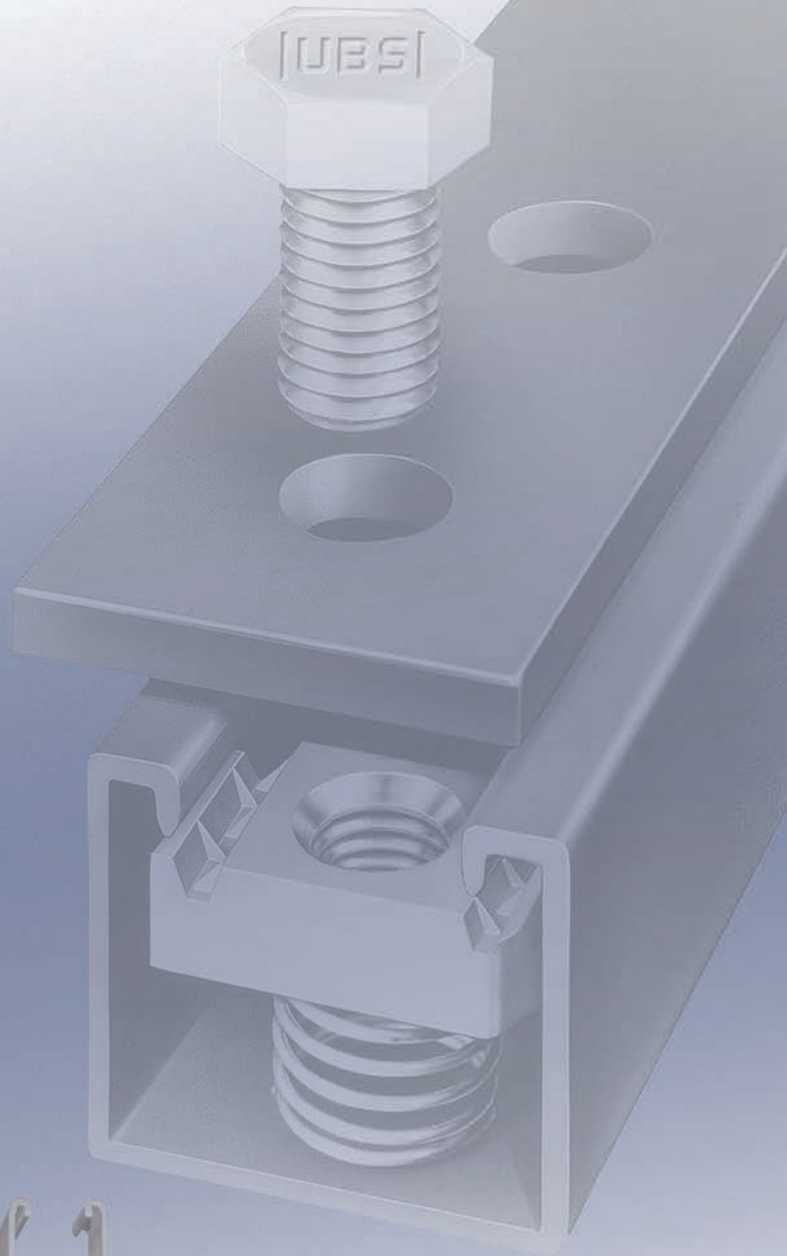


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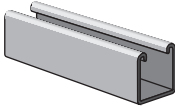
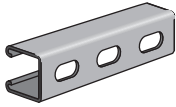
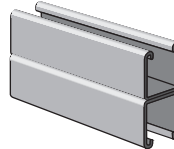
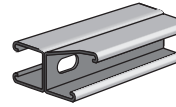
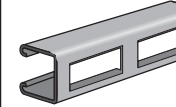
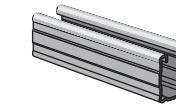
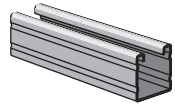
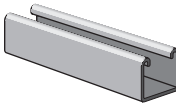
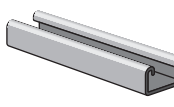
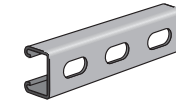
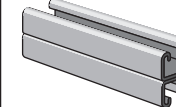
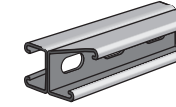
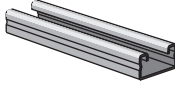
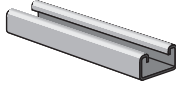
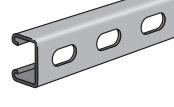
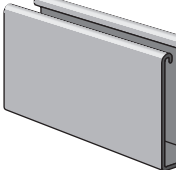
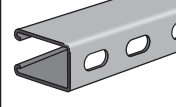
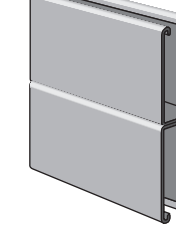
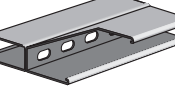
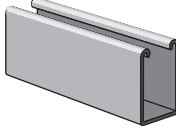
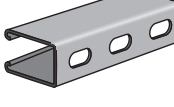
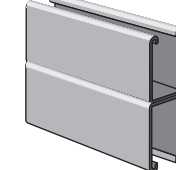
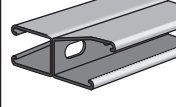
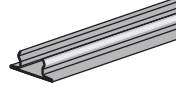
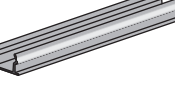
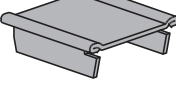
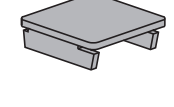
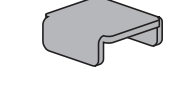
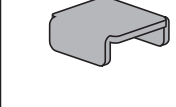
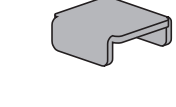
**METAL FRAMING & SUPPORTS CATALOGUE NO.2**



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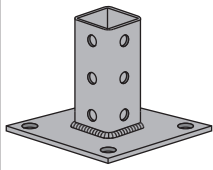
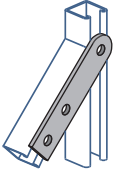
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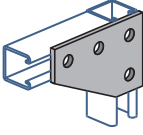
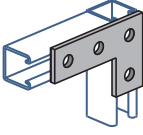
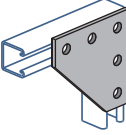
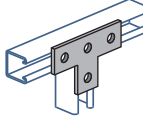
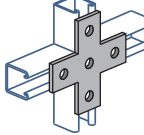
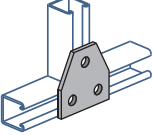
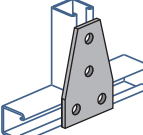
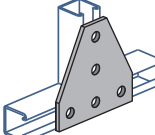
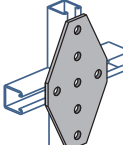
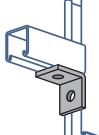
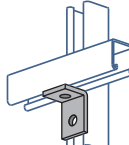
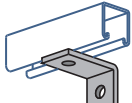
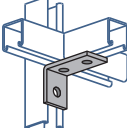

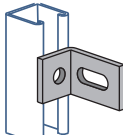
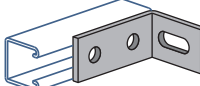
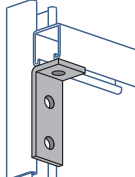
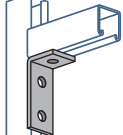
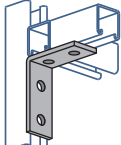
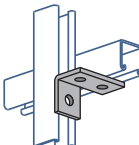
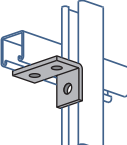
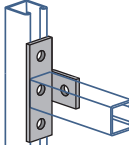
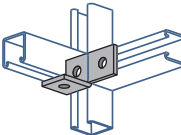
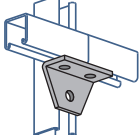
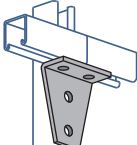
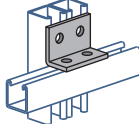
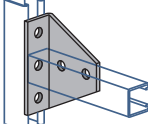
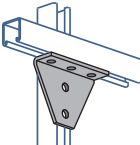
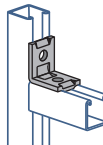
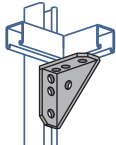
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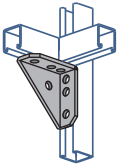
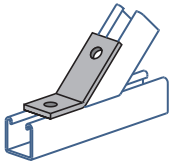
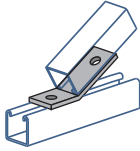
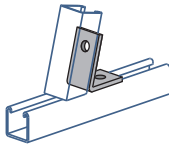
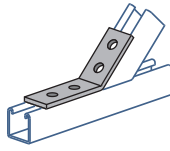
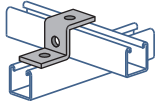
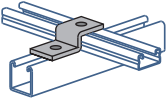
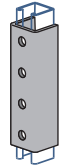
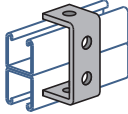
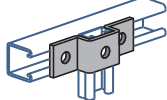
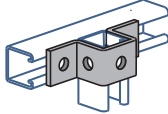
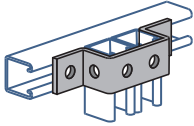
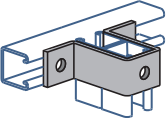
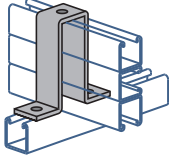
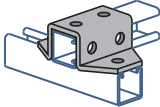
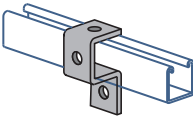
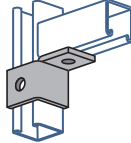
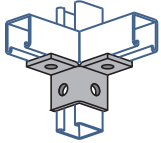
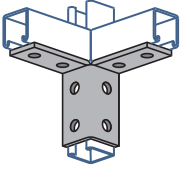
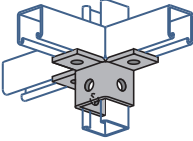
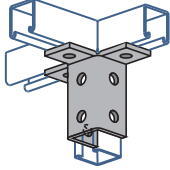
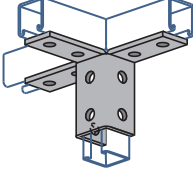
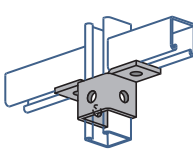
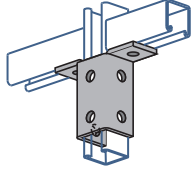
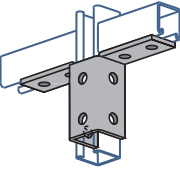
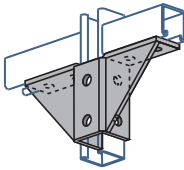
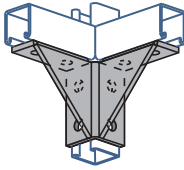
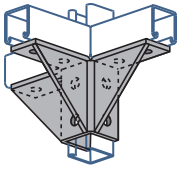
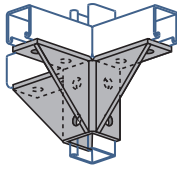
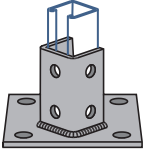
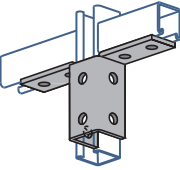
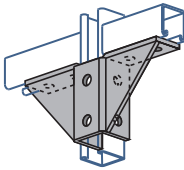
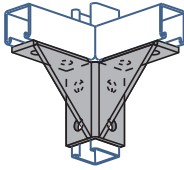
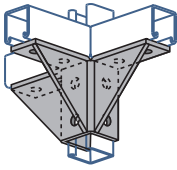
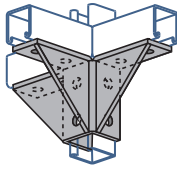
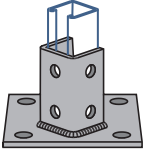
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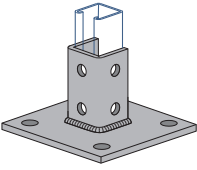
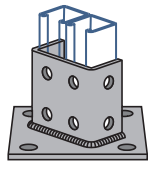
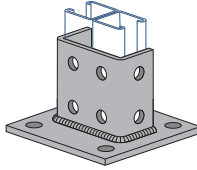
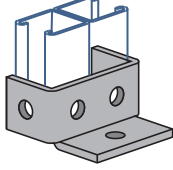
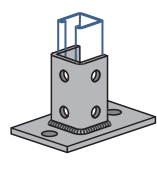
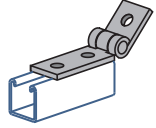
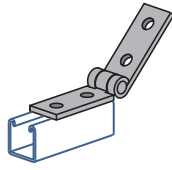
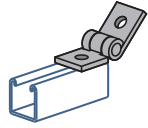
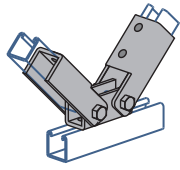
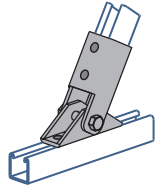
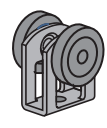
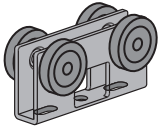
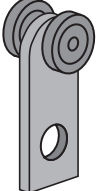
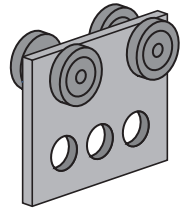
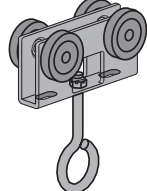
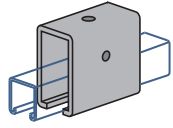
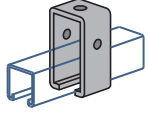
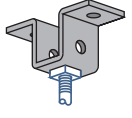
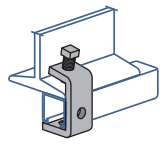
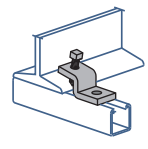
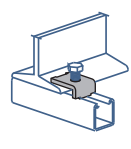
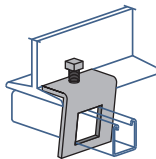
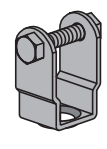
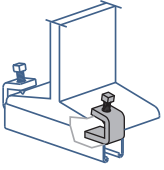
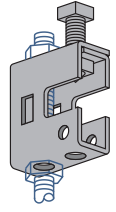

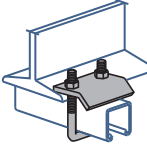
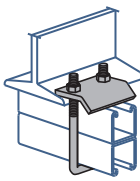
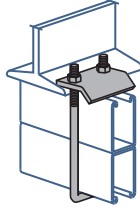
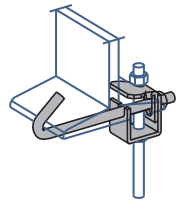
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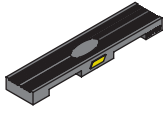




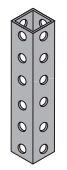
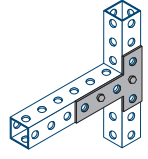
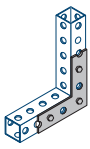
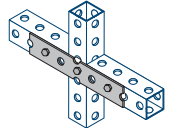
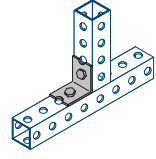


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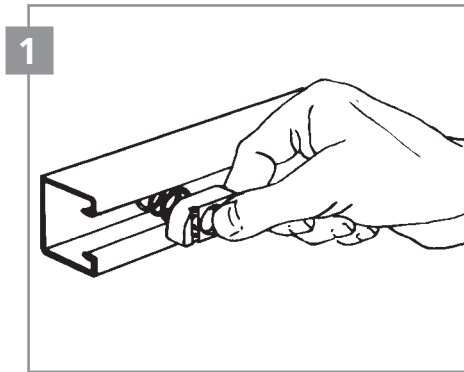
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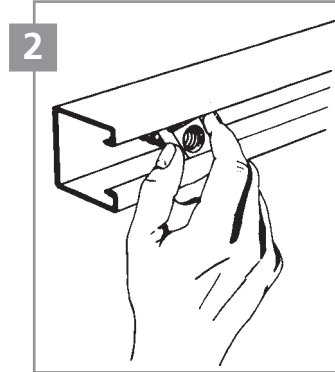
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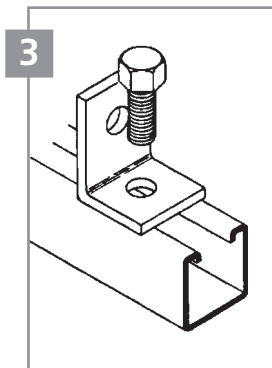


1 Insert the spring nut anywhere along the continuous slotted channel. The rounded nut ends permit easy insertion.

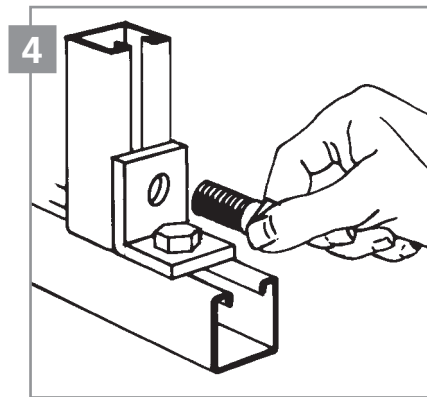


2 A 90° clockwise turn aligns the grooves in the nut with the inturned edges of the channel.

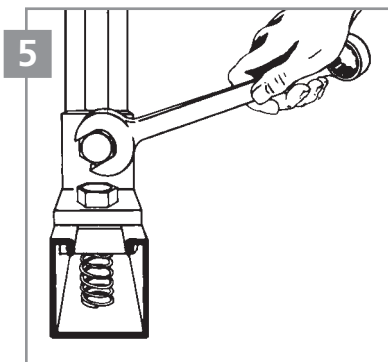
Fittings can be placed anywhere along the channel opening, permitting complete freedom of adjustment. The need for drilling holes is eliminated.



3 Insert the bolt through the fitting and into the spring nut. (See illustration 5 for end view showing the nut in place)

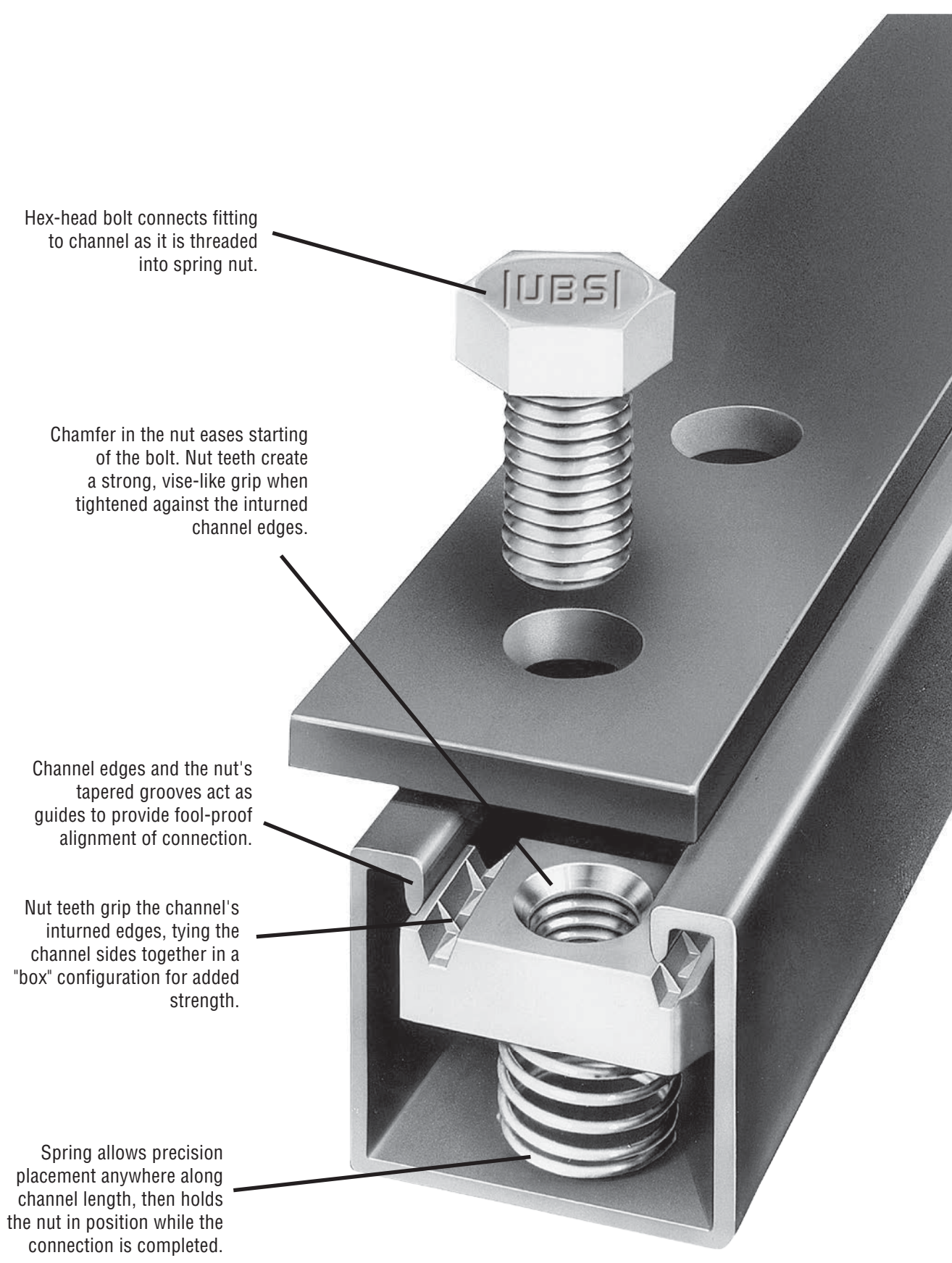


4 Additional channel sections can now be bolted to the fitting already in place by following procedure described in steps 1–3.



5 Tightening with a wrench locks the serrated teeth of the nut into the inturned edges of the channel, to complete a strong, vise-like connection.

**100% Adjustable • 100% Reusable • No Welding • No Drilling • No Special Tools**



Hex-head bolt connects fitting to channel as it is threaded into spring nut.

Chamfer in the nut eases starting of the bolt. Nut teeth create a strong, vise-like grip when tightened against the inturned channel edges.

Channel edges and the nut's tapered grooves act as guides to provide fool-proof alignment of connection.

Nut teeth grip the channel's inturned edges, tying the channel sides together in a "box" configuration for added strength.

Spring allows precision placement anywhere along channel length, then holds the nut in position while the connection is completed.

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## STEEL - UNFINISHED, PLAIN, AS-ROLLED (PL)

Plain steel is unfinished and has the hot rolled and pickled surface finish that results from the original steel making process. The steel meets the specification requirements of ASTM A1011 SS Grade 33. The cold rolling process adds light oil to the surface that remains in place unless otherwise specified. This surface finish is not resistant to corrosion, and is suitable only for dry indoor environments or when the purchaser wishes to apply a special coating.

## STEEL - PRE-GALVANIZED (PG)

Components are cold-rolled from pre-galvanized sheet steel manufactured to the specification requirements of ASTM A653 Grade 33 or ASTM A653 SS Grade 50. The pre-galvanized zinc coating to G-90 thickness, 0.75 MIL or 0.45 oz./sq. ft. of surface area.

## STEEL - HOT-DIPPED GALVANIZED (HG)

Components are fabricated from plain steel meeting the specification requirements of ASTM A1011 and hot dipped galvanized after fabrication. This galvanizing method introduces a relatively thick layer of zinc which consists of zinc intermetallics and an outer layer of pure zinc. Hot dipped galvanizing provides the longest life in outdoor environments due to the larger volume of zinc present. Hot dip galvanizing is performed to the specification requirements of ASTM A123. The zinc coating is typically 2.6 MIL or 1.5 oz./sq. ft. of surface area.

## STAINLESS STEEL - TYPE 304 (SS 304)

Type 304 stainless steel is an austenitic stainless steel which has excellent corrosion resistance in most wet environments. Austenitic stainless steels are non-magnetic. The material forms a passive chromium oxide surface layer that prevents further oxidation (corrosion) from occurring in service. The material is resistant to a wide range of chemicals and conforms to ASTM A240 (30 ksi yield strength).

## STAINLESS STEEL - TYPE 316 (SS 316)

Type 316 stainless steel is similar to type 304, but is more resistant to corrosion in marine environments due to molybdenum present in the steel. The material is resistant to corrosion in high chloride environments and conforms to ASTM A240 (30 ksi yield strength).

## ZINC ELECTROPLATED STEEL (EG)

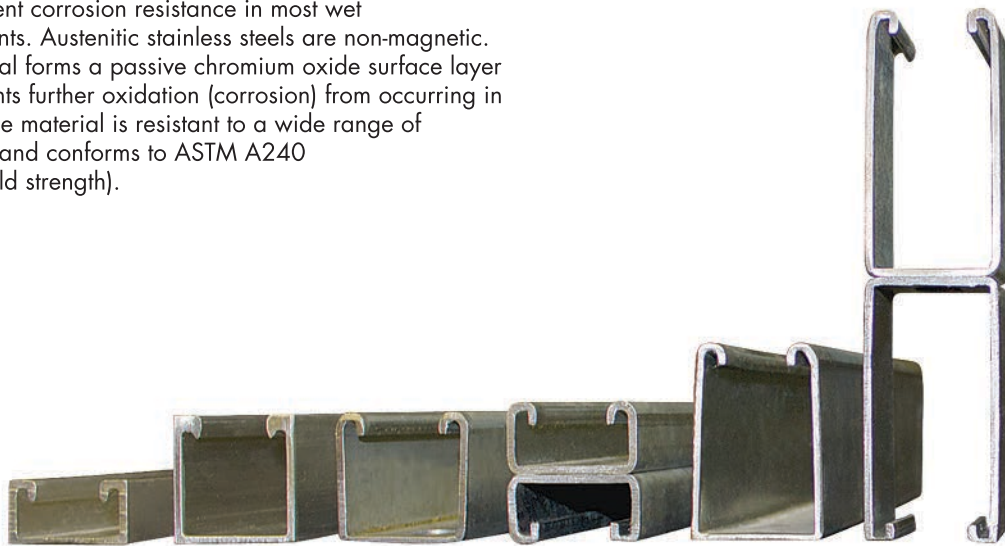
Zinc electroplating is used to coat plain steel. The electroplating process requires that the component be immersed in a solution containing zinc ions that are deposited on the surface of the part. Electroplated zinc is shiny and smooth, and is suitable for indoor environments with low relative humidity.

## ALUMINUM (AL)

Aluminum alloy extrusions are available conforming to ASTM B221 (Type 6063 T5/T6). This is a heat treated alloy with a minimum yield strength of 25 ksi. Aluminium alloys form a passive oxide film on the surface which prevents further oxidation from occurring. Aluminum alloy extrusions are resistant to corrosion and are suitable for most indoor and outdoor environments with no additional surface finish.

## FIBREGLASS (FG)

Polyester and vinyl-ester based composite materials are available for channels and fittings. These composite materials are made by a pultrusion process and have a relatively low modulus of elasticity compare with steel and aluminum. This class of material is electrically insulating and is suitable for use in areas where electrical shock hazards exist.



**Loading data in this catalogue is for design guideline purposes only. Structural designs should be checked and approved by a professional structural engineer before selection and installation of any product.**



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## MATERIALS & FINISHES

UBS channels are accurately and carefully cold formed to size from low-carbon strip steel.

### STEEL: PLAIN (PL)

12 Ga., 14 Ga. and 16 Ga.  
 ASTM A1011 SS GR 33.

### STEEL: PRE-GALVANIZED (PG)

12 Ga. , 14 Ga. and 16 Ga.  
 ASTM A653 GR 33 or ASTM A653 SS GR 50

### STEEL: HOT-DIPPED GALVANIZED (HG)

Conforming to ASTM A123.

### STAINLESS STEEL (SS)

Conforming to ASTM A240 (Type 304).

### ALUMINUM (AL)

Conforming to ASTM B221 (Type 6063 T5/T6).  
 (Extruded)

### FIBREGLASS (FG)

Polyester and vinyl ester channels are manufactured from the pultrusion process and are color coded gray and beige respectively.

Type 316 Stainless also available for most products.  
 For other materials, contact your UBS representative.

## LOAD DATA

All beam and column load data pertains to carbon steel and stainless steel channels. Load tables and charts are constructed to be in accordance with the SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2007 EDITION published by the AMERICAN IRON AND STEEL INSTITUTE USING ASD METHOD. Loads are based on 33 ksi steel.

## DIMENSIONS

Imperial dimensions are illustrated in inches. Metric dimensions are shown in millimeters and rounded to one decimal place.

## LENGTHS

Lengths are 10 feet (3.05m) and 20 feet (6.10m).  
 Tolerances are  $\pm 1/8"$  to  $\pm 1/2"$  (3 to 13 mm).




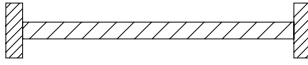

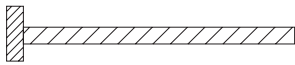
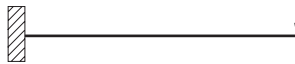
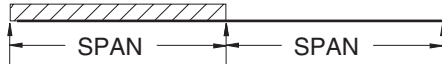
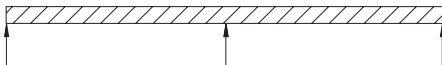


**We also have the ability to cut channel to the specific lengths required for any project.**

Type of Load	Safety Factor to Yield Strength	Safety Factor to Ultimate Strength
Beam Loads	1.67	2.0
Column Load	1.80	2.2

UBS INDUSTRIES RESERVES THE RIGHT TO MAKE SPECIFICATION CHANGES WITHOUT NOTICE

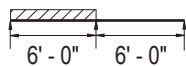
## Conversion Factors For Beams With Various Static Loading Conditions

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

Load and Support Condition	Load Factor	Deflection Factor
<b>1. Simple Beam, Uniform Load</b> 	1.00	1.00
<b>2. Simple Beam, Concentrated Load at Center</b> 	.50	.80
<b>3. Simple Beam, Two Equal Concentrated Loads at 1/4 pts</b> 	1.00	1.10
<b>4. Beam Fixed at Both Ends, Uniform Load</b> 	1.50	.30
<b>5. Beam Fixed at Both Ends, Concentrated Load at Center</b> 	1.00	.40
<b>6. Cantilever Beam, Uniform Load</b> 	.25	2.40
<b>7. Cantilever Beam, Concentrated Load at End</b> 	.12	3.20
<b>8. Continuous Beam, Two Equal Spans, Uniform Load on One Span</b> 	1.30	.92
<b>9. Continuous Beam, Two Equal Spans, Uniform Load on Both Ends</b> 	1.00	.42
<b>10. Continuous Beam, Two Equal Spans, Concentrated Load at Center of One Span</b> 	.62	.71
<b>11. Continuous Beam, Two Equal Spans, Concentrated Load at Center of Each Span</b> 	.67	.48

### EXAMPLE I:

Determine load and deflection of a CH1000 beam continuous over one support and loaded uniformly on one span.

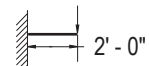


### SOLUTION:

- From load table for CH1000 on page 18 load for a 6'-0" span is 680# and deflection is .35".
- Multiply by factors from Table above.  
 Load = 680# x 1.30 = 884#  
 Deflection = .35" x .92 = .32"

### EXAMPLE II

Determine load and deflection of a CH5500 cantilever beam with a concentrated load on the end.



### SOLUTION:

- From load table CH5500 on page 33 load for a 2'-0" span is 2180# and deflection is .09".
- Multiply by factors from Table above.  
 Load = 2180# x .12 = 262#  
 Deflection = .09" x 3.20 = .29"



## Channel Selection Chart

Channel	Channel Dimensions		Material & Thickness			Hole Pattern Styles	
			Steel	Stainless Steel	Alum.		
	Width In (mm)	Height In (mm)	Gauge	Gauge	In (mm)	T	DS
CH1000	1 $\frac{5}{8}$ (41.3)	1 $\frac{5}{8}$ (41.3)	12 ga	12 ga	0.109 (2.8)	■	■
CH1100	1 $\frac{5}{8}$ (41.3)	1 $\frac{5}{8}$ (41.3)	14 ga	—	—	-	-
CH2000	1 $\frac{5}{8}$ (41.3)	1 $\frac{5}{8}$ (41.3)	16 ga	—	—	-	-
CH3000	1 $\frac{5}{8}$ (41.3)	1 $\frac{3}{4}$ (34.9)	12 ga	—	—	-	-
CH3300	1 $\frac{5}{8}$ (41.3)	$\frac{7}{8}$ (22.2)	12 ga	12 ga	—	■	-
CH4000	1 $\frac{5}{8}$ (41.3)	1 $\frac{3}{16}$ (20.6)	16 ga	16 ga	0.078 (2.0)	-	-
CH4100	1 $\frac{5}{8}$ (41.3)	1 $\frac{3}{16}$ (20.6)	14 ga	14 ga	—	■	-
CH5000	1 $\frac{5}{8}$ (41.3)	3 $\frac{1}{4}$ (82.6)	12 ga	—	—	■	-
CH5500	1 $\frac{5}{8}$ (41.3)	2 $\frac{7}{16}$ (61.9)	12 ga	—	—	■	-

Back-to-Back Channel	Channel Dimensions		Material & Thickness			Hole Pattern Styles
			Steel	Stainless Steel	Alum.	
	Width In (mm)	Height In (mm)	Gauge	Gauge	In (mm)	T
CH1001	1 $\frac{5}{8}$ (41.3)	3 $\frac{1}{4}$ (82.6)	12 ga	—	—	■
CH3301	1 $\frac{5}{8}$ (41.3)	1 $\frac{3}{4}$ (44.5)	12 ga	—	—	■
CH5001	1 $\frac{5}{8}$ (41.3)	6 $\frac{1}{2}$ (165.1)	12 ga	—	—	■
CH5501	1 $\frac{5}{8}$ (41.3)	4 $\frac{7}{8}$ (123.8)	12 ga	—	—	■

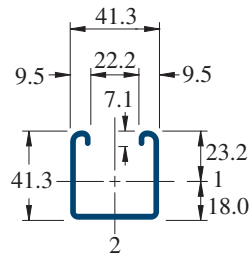
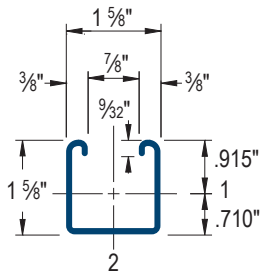


## Lateral Bracing Load Reduction Charts

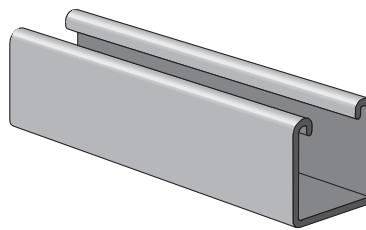
Span	Single Channel										Back to Back Channel				
	Ft. (m)	In. (cm)	CH1000	CH1100	CH2000	CH3000	CH3300	CH4000	CH4100	CH5000	CH5500	CH1001	CH3301	CH5001	CH5501
2 (0.61)	24 (61)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.98	0.99	1.00	1.00	1.00	1.00
3 (0.91)	36 (91)	0.94	0.89	0.88	0.96	1.00	0.94	0.98	0.85	0.89	1.00	1.00	1.00	1.00	1.00
4 (1.22)	48 (122)	0.88	0.78	0.75	0.91	1.00	0.88	0.94	0.70	0.77	1.00	1.00	0.97	0.98	0.98
5 (1.52)	60 (152)	0.82	0.68	0.61	0.88	0.98	0.83	0.91	0.55	0.67	0.97	1.00	0.90	0.93	0.93
6 (1.83)	72 (183)	0.78	0.59	0.48	0.84	0.97	0.79	0.89	0.44	0.58	0.93	0.97	0.83	0.87	0.87
7 (2.13)	84 (213)	0.75	0.52	0.41	0.82	0.96	0.75	0.86	0.38	0.51	0.89	0.95	0.76	0.81	0.81
8 (2.44)	96 (244)	0.71	0.47	0.35	0.79	0.94	0.72	0.84	0.33	0.46	0.85	0.92	0.68	0.76	0.76
9 (2.74)	108 (274)	0.69	0.43	0.32	0.77	0.93	0.69	0.82	0.30	0.42	0.81	0.90	0.61	0.70	0.70
10 (3.05)	120 (305)	0.66	0.40	0.29	0.75	0.92	0.66	0.80	0.28	0.40	0.78	0.87	0.54	0.64	0.64
12 (3.66)	144 (366)	0.61	0.36	0.25	0.70	0.89	0.60	0.76	0.24	0.36	0.70	0.82	0.43	0.53	0.53
14 (4.27)	168 (427)	0.55	0.32	0.23	0.66	0.86	0.55	0.73	0.22	0.32	0.63	0.78	0.35	0.45	0.45
16 (4.88)	192 (488)	0.51	0.30	0.21	0.62	0.84	0.50	0.69	0.21	0.30	0.56	0.73	0.30	0.39	0.39
18 (5.49)	216 (549)	0.47	0.28	0.19	0.58	0.81	0.47	0.65	0.19	0.28	0.49	0.68	0.27	0.34	0.34
20 (6.10)	240 (610)	0.44	0.26	0.18	0.54	0.78	0.43	0.61	0.18	0.26	0.44	0.63	0.24	0.30	0.30

## Channels & Combinations in Descending Order of Strength

Channel	Area In <sup>2</sup> (cm <sup>2</sup> )	Weight lbs/ft (kg/m)	I In <sup>4</sup> (cm <sup>4</sup> )	s In <sup>3</sup> (cm <sup>3</sup> )	Allow. Moment In-lbs (N·m)
CH5001	1.793 11.57	6.10 9.1	6.227 259.2	1.916 31.4	48,180 5,440
CH5501	1.452 9.37	4.94 7.3	2.805 116.8	1.151 18.9	28,940 3,270
CH5000	0.897 5.78	3.05 4.5	1.098 45.7	0.627 10.3	15,770 1,780
CH1001	1.111 7.16	3.78 5.6	0.928 38.6	0.571 9.4	14,360 1,620
CH3001	1.000 6.45	3.40 5.1	0.591 24.6	0.430 7.0	10,810 1,220
CH5500	0.726 4.68	2.47 3.7	0.522 21.7	0.390 6.4	9,820 1,110
CH9200	0.489 3.16	2.23 3.3	0.279 11.6	0.297 4.9	7,480 850
CH9000	0.387 2.50	1.88 2.8	0.166 6.9	0.205 3.4	5,150 580
CH1000	0.555 3.58	1.89 2.8	0.185 7.7	0.202 3.3	5,070 570
CH3301	0.790 5.10	2.69 4.0	0.176 7.3	0.201 3.3	5,060 570
CH1100	0.418 2.69	1.42 2.1	0.145 6.0	0.162 2.6	4,060 460
CH3000	0.500 3.23	1.70 2.5	0.120 5.0	0.153 2.5	3,850 430
CH2000	0.342 2.21	1.16 1.7	0.125 5.2	0.140 2.3	3,520 400
CH3300	0.395 2.55	1.34 2.0	0.037 1.5	0.072 1.2	1,800 200
CH4100	0.290 1.87	0.98 1.5	0.026 1.1	0.054 0.9	1,360 150
CH4000	0.244 1.57	0.83 1.2	0.023 0.9	0.049 0.8	1,230 140

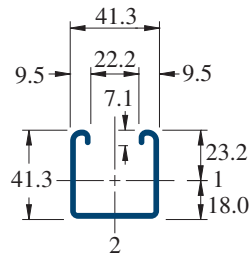
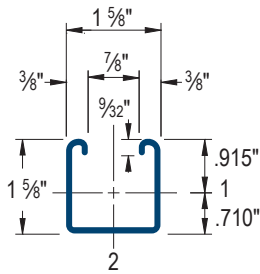


**CH1000**  
 1-5/8" x 1-5/8"  
 12 Gauge Channel  
 Wt/100 Ft: 189 Lbs

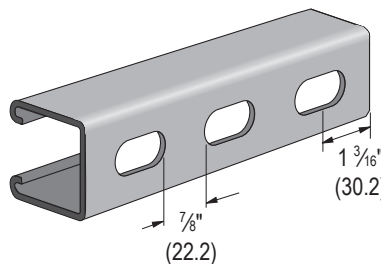


Materials & Finishes: PG, HG, PL, AL, SS, FG

Lengths: 10' & 20'



**CH1000T**  
 1-5/8" x 1-5/8"  
 12 Gauge Channel  
 Wt/100 Ft: 185 Lbs



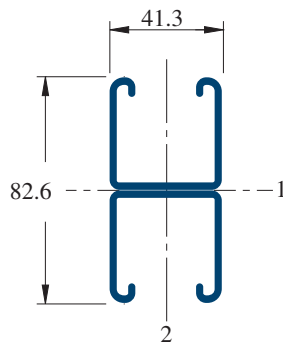
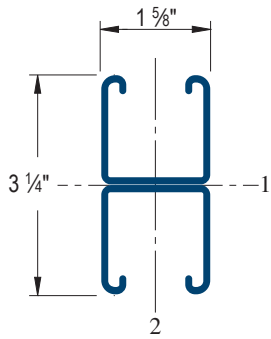
Slots are  
 1 1/8" (28.6) x 9/16" (14.3)  
 2" (50.8) on Centre

Materials & Finishes: PG, HG, PL, SS, FG

Lengths: 10' & 20'

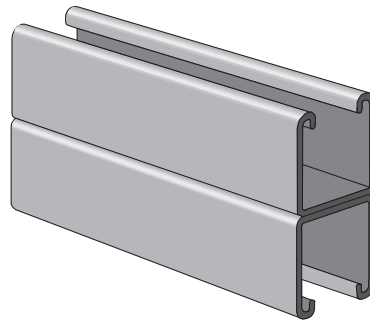
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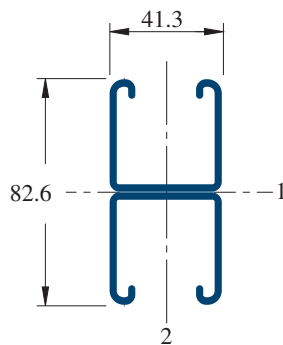
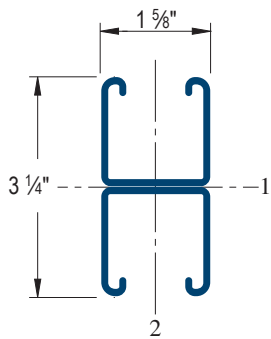
**CH1001**

3-1/4" x 1-5/8"  
 12 Gauge Channel  
 Wt/100 Ft:378 Lbs



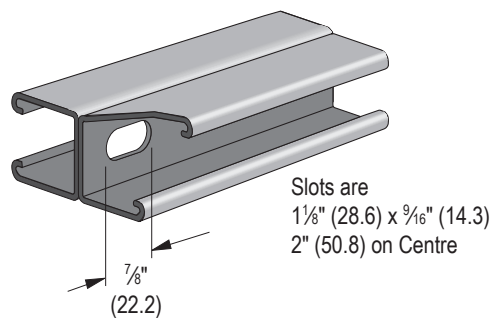
Materials & Finishes: PG, HG, PL, SS

Lengths: 10' & 20'



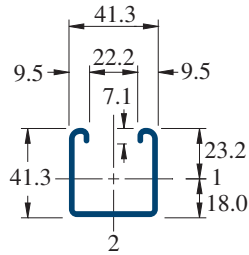
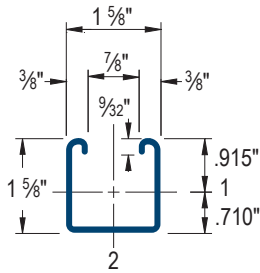
**CH1001T**

3-1/4" x 1-5/8"  
 12 Gauge Channel  
 Wt/100 Ft:321 Lbs



Materials & Finishes: PG, HG, SS

Lengths: 10' & 20'

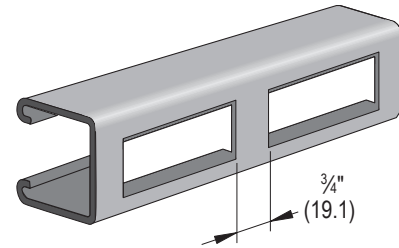
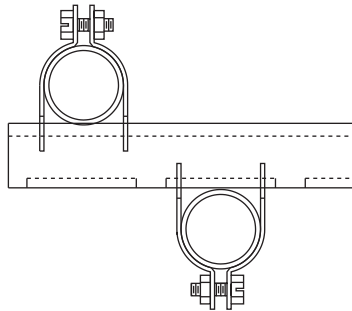


## CH1000DS

1-5/8" x 1-5/8"

12 Gauge Channel

Wt/100 Ft: 173 Lbs



Slots are 2 3/4" (69.9) x 7/8" (22.2)  
3 1/2" (88.9) on Center

The unique oversized slots in the CH1000DS allow pipe clamps to be mounted on either side of the channel

Materials & Finishes: PG

Lengths: 10' & 20'



## Beam Loading

## Column Loading

Channel No.	Span In	Max. Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
				Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
CH1000	24	1,690	0.06	1,690	1,690	1,690
CH1001		3,500*	0.02	3,500*	3,500*	3,500*
CH1000	36	1,130	0.13	1,130	1,130	900
CH1001		3,190	0.07	3,190	3,190	3,190
CH1000	48	850	0.22	850	760	500
CH1001		2,390	0.13	2,390	2,390	2,390
CH1000	60	680	0.35	650	480	320
CH1001		1,910	0.20	1,910	1,910	1,620
CH1000	72	560	0.50	450	340	220
CH1001		1,600	0.28	1,600	1,600	1,130
CH1000	84	480	0.68	330	250	160
CH1001		1,370	0.39	1,370	1,240	830
CH1000	96	420	0.89	250	190	130
CH1001		1,200	0.51	1,200	950	630
CH1000	108	380	1.14	200	150	100
CH1001		1,060	0.64	1,000	750	500
CH1000	120	340	1.40	160	120	80
CH1001		960	0.79	810	610	410
CH1000	144	280	2.00	110	80	60
CH1001		800	1.14	560	420	280
CH1000	168	240	2.72	80	60	40
CH1001		680	1.53	410	310	210
CH1000	192	210	3.55	60	50	NR
CH1001		600	2.02	320	240	160
CH1000	216	190	4.58	50	40	NR
CH1001		530	2.54	250	190	130
CH1000	240	170	5.62	40	NR	NR
CH1001		480	3.16	200	150	100

Channel No.	Unbraced Height In	Max. Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
			K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
CH1000	24	3,550	10,740	9,890	8,770	7,740
CH1001		6,430	24,280	23,610	22,700	21,820
CH1000	36	3,190	8,910	7,740	6,390	5,310
CH1001		6,290	22,810	21,820	20,650	19,670
CH1000	48	2,770	7,260	6,010	4,690	3,800
CH1001		6,160	21,410	20,300	18,670	16,160
CH1000	60	2,380	5,910	4,690	3,630	2,960
CH1001		6,000	20,210	18,670	15,520	12,390
CH1000	72	2,080	4,840	3,800	2,960	2,400
CH1001		5,620	18,970	16,160	12,390	8,950
CH1000	84	1,860	4,040	3,200	2,480	1,980
CH1001		5,170	16,950	13,630	9,470	6,580
CH1000	96	1,670	3,480	2,750	2,110	1,660
CH1001		4,690	14,890	11,190	7,250	5,040
CH1000	108	1,510	3,050	2,400	1,810	**
CH1001		4,170	12,850	8,950	5,730	3,980
CH1000	120	1,380	2,700	2,110	**	**
CH1001		3,690	10,900	7,250	4,640	**
CH1000	144	1,150	2,180	1,660	**	**
CH1001		2,930	7,630	5,040	**	**

Notes:

\* Load limited by spot weld shear.

\*\*  $KL/r > 200$

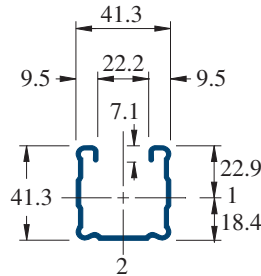
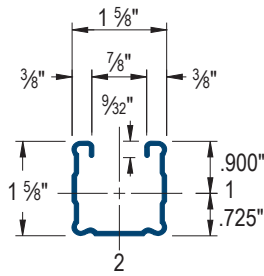
NR = Not Recommended.

1. Beam loads are given in total uniform load (W lbs) not uniform load (*w lbs/ft or w lbs/in*).
2. Beam loads are based on a simple span and must be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity.
3. For pierced channel, multiply beam loads by the following factor:  
**"T" Series - 85%**      **"DS" Series - 70%**
4. Deduct channel weight from the beam loads.
5. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%.
6. All beam loads are for bending about Axis 1-1.



### Elements of Section

Channel No.	Area of Section in <sup>2</sup>	Axis 1-1			Axis 2-2		
		I in <sup>4</sup>	s in <sup>3</sup>	r in	I in <sup>4</sup>	s in <sup>3</sup>	r in
CH1000	0.555	0.185	0.202	0.577	0.236	0.290	0.651
CH1001	1.111	0.928	0.571	0.914	0.471	0.580	0.651

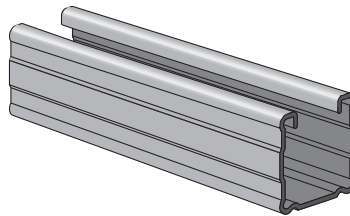


## CH1100

1-5/8" x 1-5/8"

14 Gauge Channel

Wt/100 Ft: 142 Lbs



Materials & Finishes: PG

Lengths: 10' & 20'

### CH1100 - Beam Loading

Span In	Max Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
			Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	1,350	0.06	1,350	1,350	1,350
36	900	0.13	900	900	700
48	680	0.23	680	590	400
60	540	0.36	510	380	250
72	450	0.51	350	260	180
84	390	0.70	260	190	130
96	340	0.92	200	150	100
108	300	1.15	160	120	80
120	270	1.42	130	90	60
144	230	2.09	90	70	40
168	190	2.75	60	50	30
192	170	3.67	50	40	NR
216	150	4.61	40	30	NR
240	140	5.90	30	NR	NR

### CH1100 - Column Loading

Unbraced Height In	Maximum Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
		K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	2,800	8,040	7,330	6,360	5,430
36	2,410	6,480	5,430	4,190	3,210
48	1,940	4,990	3,830	2,760	2,160
60	1,550	3,740	2,760	2,050	1,640
72	1,290	2,860	2,160	1,640	1,320
84	1,100	2,310	1,780	1,370	1,110
96	950	1,950	1,520	1,180	950
108	840	1,690	1,320	1,030	**
120	760	1,490	1,180	**	**
144	630	1,210	950	**	**

Notes:

\*\*  $KL/r > 200$

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and must be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity.
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%.
- All beam loads are for bending about Axis 1-1.



### Elements of Section

Area of Section in <sup>2</sup>	Axis 1-1			Axis 2-2		
	I in <sup>4</sup>	s in <sup>3</sup>	r in	I in <sup>4</sup>	s in <sup>3</sup>	r in
0.418	0.145	0.162	0.589	0.176	0.217	0.650

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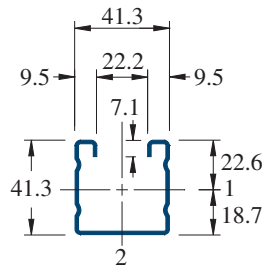
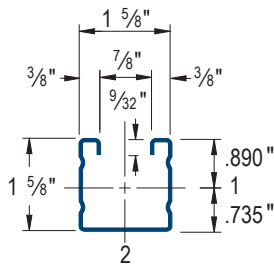
Roofing Supports

Erectastep

Sign Posts

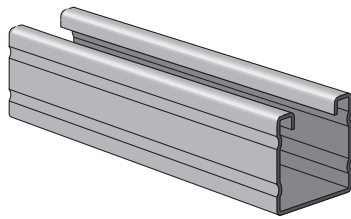
Mechanical Tube

Index



## CH2000

1-5/8" x 1-5/8"  
16 Gauge Channel  
Wt/100 Ft: 116 Lbs



Materials & Finishes: PG

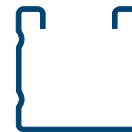
Lengths: 10' & 20'

### Beam Loading

Span In	Max Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
			Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	1,170	0.06	1,170	1,170	1,170
36	780	0.13	780	780	610
48	590	0.23	590	510	340
60	470	0.36	440	330	220
72	390	0.52	300	230	150
84	340	0.71	220	170	110
96	290	0.91	170	130	90
108	260	1.16	130	100	70
120	230	1.41	110	80	50
144	200	2.12	80	60	40
168	170	2.86	60	40	30
192	150	3.76	40	30	20
216	130	4.64	30	30	NR
240	120	5.88	30	NR	NR

### Column Loading

Unbraced Height In	Maximum Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
		K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	2,400	6,650	6,080	5,280	4,470
36	2,050	5,380	4,470	3,370	2,500
48	1,600	4,090	3,040	2,100	1,590
60	1,230	2,960	2,100	1,500	1,160
72	970	2,190	1,590	1,160	910
84	790	1,720	1,270	950	760
96	660	1,410	1,060	800	650
108	570	1,200	910	700	**
120	510	1,040	800	620	**
144	420	830	650	**	**



### Elements of Section

Area of Section in <sup>2</sup>	Axis 1-1			Axis 2-2		
	I in <sup>4</sup>	S in <sup>3</sup>	r in	I in <sup>4</sup>	S in <sup>3</sup>	r in
0.342	0.125	0.140	0.604	0.151	0.186	0.665

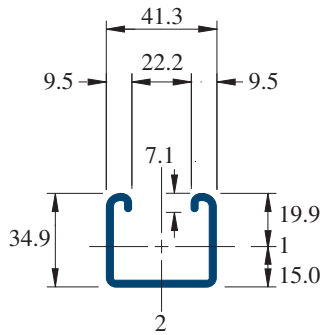
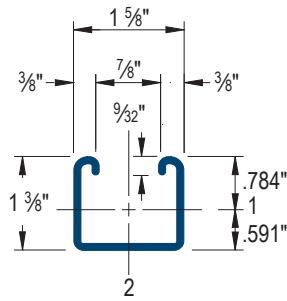
Notes:

\*\* Kl/r > 200

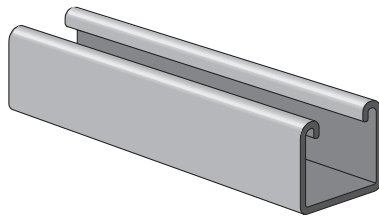
NR = Not Recommended.

1. Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
2. Beam loads are based on a simple span and must be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity.
3. Deduct channel weight from the beam loads.
4. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%.
5. All beam loads are for bending about Axis 1-1.





**CH3000**  
 1-3/8" x 1-5/8"  
 12 Gauge Channel  
 Wt/100 Ft: 170Lbs



Materials & Finishes: PG

Lengths: 10' & 20'

### Beam Loading

Span In	Max Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
			Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	1,280	0.07	1,280	1,280	1,280
36	850	0.15	850	850	580
48	640	0.26	640	490	330
60	510	0.41	420	310	210
72	430	0.59	290	220	150
84	370	0.81	210	160	110
96	320	1.05	160	120	80
108	280	1.30	130	100	60
120	260	1.66	100	80	50
144	210	2.32	70	50	40
168	180	3.15	50	40	30
192	160	4.18	40	30	NR
216	140	5.21	NR	NR	NR
240	130	6.64	NR	NR	NR

### Column Loading

Unbraced Height In	Maximum Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
		K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	3,180	9,690	8,980	8,050	7,210
36	2,920	8,160	7,210	6,130	5,240
48	2,590	6,820	5,810	4,730	3,860
60	2,300	5,740	4,730	3,690	2,990
72	2,040	4,850	3,860	2,990	2,270
84	1,830	4,100	3,240	2,400	**
96	1,650	3,530	2,770	1,840	**
108	1,450	3,080	2,270	**	**
120	1,250	2,710	1,840	**	**

Notes:

\*\*  $KL/r > 200$

NR = Not Recommended.

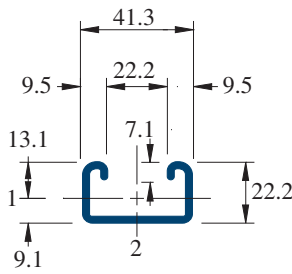
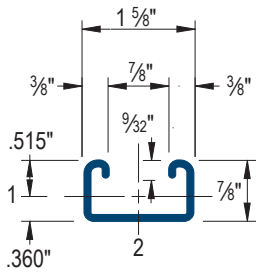
- Beam loads are given in total uniform load (W Lbs) not uniform load (*w lbs/ft or w lbs/in*).
- Beam loads are based on a simple span and must be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity.
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%.
- All beam loads are for bending about Axis 1-1.



### Elements of Section

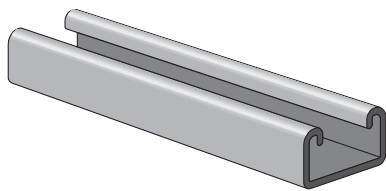
Area of Section in <sup>2</sup>	Axis 1-1			Axis 2-2		
	I in <sup>4</sup>	S in <sup>3</sup>	r in	I in <sup>4</sup>	S in <sup>3</sup>	r in
0.500	0.120	0.153	0.489	0.203	0.250	0.638

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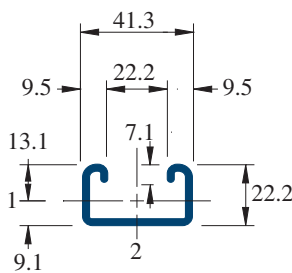
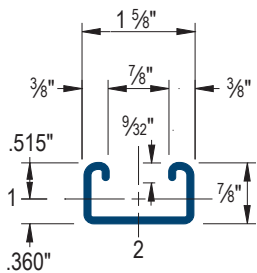
**CH3300**

7/8" x 1-5/8"  
 12 Gauge Channel  
 Wt/100 Ft: 134 Lbs



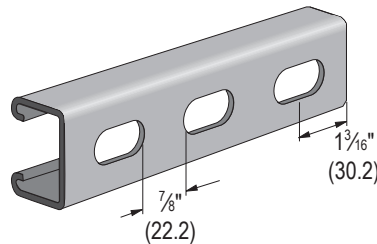
Materials & Finishes: PG, HG

Lengths: 10' & 20'



**CH3300T**

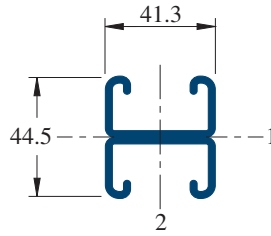
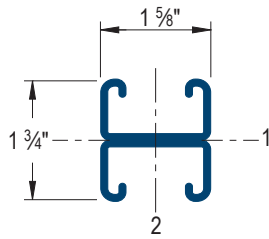
7/8" x 1-5/8"  
 12 Gauge Channel  
 Wt/100 Ft: 130 Lbs



Slots are  
 1 1/8" (28.6) x 7/16" (14.3)  
 2" (50.8) on Center

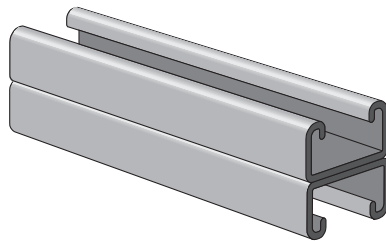
Materials & Finishes: PG, HG

Lengths: 10' & 20'



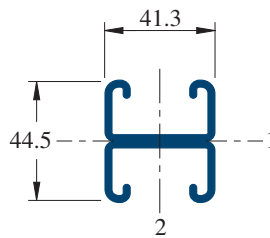
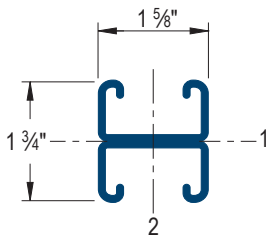
## CH3301

1-3/4" x 1-5/8"  
12 Gauge Channel  
Wt/100 Ft: 269 Lbs



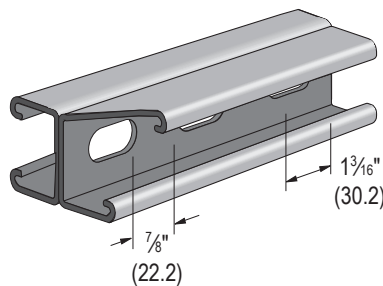
Materials & Finishes: PG, HG

Lengths: 10' & 20'



## CH3301T

1-3/4" x 1-5/8"  
12 Gauge Channel  
Wt/100 Ft: 260 Lbs



Slots are  
1 1/8" (28.6) x 7/8" (14.3)  
2" (50.8) on Center

Materials & Finishes: PG

Lengths: 10' & 20'

## Beam Loading

Channel No.	Span In	Max. Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
				Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
CH3300	24	600	0.10	600	600	400
CH3301		1,690	0.06	1,690	1,690	1,690
CH3300	36	400	0.22	360	270	180
CH3301		1,130	0.13	1,130	1,130	860
CH3300	48	300	0.40	200	150	100
CH3301		840	0.23	840	720	480
CH3300	60	240	0.62	130	100	60
CH3301		680	0.37	620	460	310
CH3300	72	200	0.89	90	70	40
CH3301		560	0.52	430	320	210
CH3300	84	170	1.20	70	50	30
CH3301		480	0.71	310	240	160
CH3300	96	150	1.59	50	40	30
CH3301		420	0.93	240	180	120
CH3300	108	130	1.96	40	30	20
CH3301		380	1.20	190	140	100
CH3300	120	120	2.48	30	20	20
CH3301		340	1.47	150	120	80
CH3300	144	-	-	-	-	-
CH3301		280	2.09	110	80	50

## Column Loading

Channel No.	Unbraced Height In	Max. Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
			K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
CH3300	24	2,360	7,740	7,260	6,350	5,390
CH3301		4,290	16,990	16,580	15,770	14,720
CH3300	36	2,120	6,470	5,390	3,990	2,810
CH3301		4,150	15,890	14,720	12,980	11,120
CH3300	48	1,760	4,910	3,550	2,270	1,580
CH3301		3,940	14,160	12,360	9,880	7,510
CH3300	60	1,380	3,440	2,270	1,460	**
CH3301		3,650	12,210	9,880	6,940	4,820
CH3300	72	1,080	2,390	1,580	**	**
CH3301		3,270	10,190	7,510	4,820	3,350
CH3300	84	-	-	-	-	-
CH3301		2,800	8,220	5,530	3,540	**
CH3300	96	-	-	-	-	-
CH3301		2,410	6,420	4,240	**	**
CH3300	108	-	-	-	-	-
CH3301		2,080	5,070	3,350	**	**

**Notes:**

\* Load limited by spot weld shear.

\*\*  $Kl/r > 200$

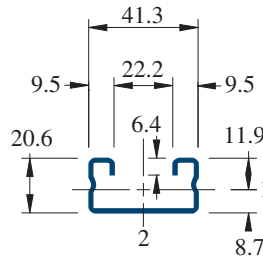
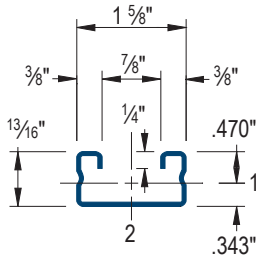
NR = Not Recommended.

1. Beam loads are given in total uniform load (W Lbs) not uniform load (*w lbs/ft or w lbs/in*).
2. Beam loads are based on a simple span and must be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity.
3. For pierced channel, multiply beam loads by the following factor:  
**"T" Series - 85%**
4. Deduct channel weight from the beam loads.
5. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%.
6. All beam loads are for bending about Axis 1-1.

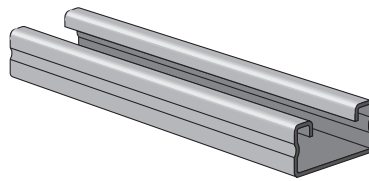


## Elements of Section

Channel No.	Area of Section in <sup>2</sup>	Axis 1-1			Axis 2-2		
		I in <sup>4</sup>	S in <sup>3</sup>	r in	I in <sup>4</sup>	S in <sup>3</sup>	r in
CH3300	0.395	0.037	0.072	0.306	0.143	0.176	0.601
CH3301	0.790	0.176	0.201	0.472	0.285	0.351	0.601



**CH4000**  
 $1\frac{3}{16}'' \times 1\frac{5}{8}''$   
 16 Gauge Channel  
 Wt/100 Ft: 83 Lbs



Materials & Finishes: PG, AL, SS

Lengths: 10' & 20'

### Beam Loading

Span In	Max Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
			Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	410	0.11	410	370	250
36	270	0.24	220	170	110
48	200	0.43	120	90	60
60	160	0.67	80	60	40
72	140	1.01	60	40	30
84	120	1.38	40	30	20
96	100	1.72	30	20	20
108	90	2.20	20	20	10
120	80	2.68	20	10	10

### Column Loading

Unbraced Height In	Maximum Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
		K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	1,630	4,670	4,290	3,780	3,310
36	1,450	3,840	3,310	2,460	1,730
48	1,160	3,030	2,190	1,400	970
60	870	2,120	1,400	900	**
72	670	1,470	970	**	**

Notes:

\*\*  $KL/r > 200$

NR = Not Recommended.

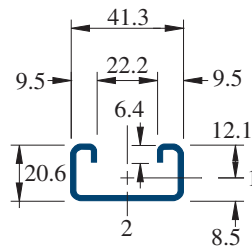
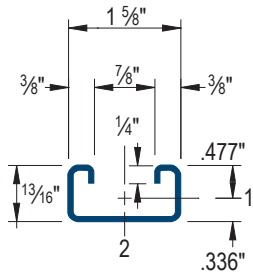
- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and must be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity.
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%.
- All beam loads are for bending about Axis 1-1.



### Elements of Section

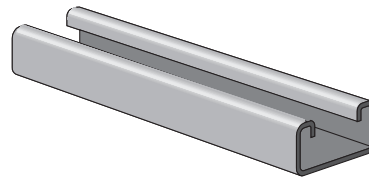
Area of Section in <sup>2</sup>	Axis 1-1			Axis 2-2		
	I in <sup>4</sup>	s in <sup>3</sup>	r in	I in <sup>4</sup>	s in <sup>3</sup>	r in
0.244	0.023	0.049	0.306	0.092	0.113	0.613

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- Channel**
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- Erectastep
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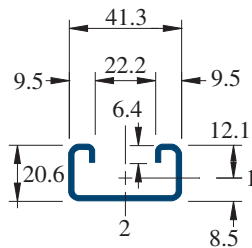
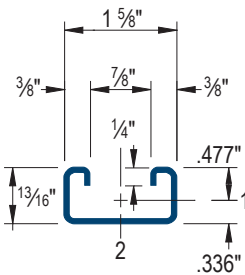
**CH4100**

<sup>13</sup>/<sub>16</sub>" x <sup>1</sup>/<sub>8</sub>"  
14 Gauge Channel  
Wt/100 Ft: 98 Lbs



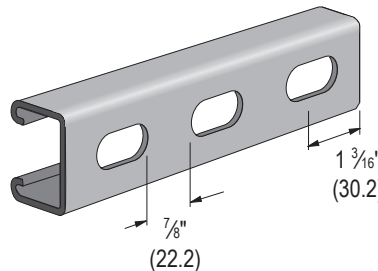
Materials & Finishes: PG, SS, PL

Lengths: 10' & 20'



**CH4100T**

<sup>13</sup>/<sub>16</sub>" x <sup>1</sup>/<sub>8</sub>"  
14 Gauge Channel  
Wt/100 Ft: 87 Lbs



Slots are  
<sup>1</sup>/<sub>8</sub>" (28.6) x <sup>9</sup>/<sub>16</sub>" (14.3)  
2" (50.8) on Center

Materials & Finishes: PG, SS

Lengths: 10' & 20'

## Beam Loading

Span In	Max Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
			Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	450	0.11	450	420	280
36	300	0.24	250	190	130
48	230	0.44	140	110	70
60	180	0.67	90	70	50
72	150	0.96	60	50	30
84	130	1.32	50	30	20
96	110	1.67	40	30	20
108	100	2.16	30	20	10
120	90	2.67	20	20	10
144	80	4.09	20	NR	NR
168	60	4.88	NR	NR	NR
192	60	7.28	NR	NR	NR
216	50	8.64	NR	NR	NR
240	50	11.85	NR	NR	NR

Notes:

\*\*  $KL/r > 200$

NR = Not Recommended.

1. Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
2. Beam loads are based on a simple span and must be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity.
3. For pierced channel, multiply beam loads by the following factor:  
**"T" Series - 85%**
4. Deduct channel weight from the beam loads.
5. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%.
6. All beam loads are for bending about Axis 1-1.

## Column Loading

Unbraced Height In	Maximum Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
		K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	1,840	5,610	5,210	4,570	3,850
36	1,640	4,660	3,850	2,800	1,960
48	1,310	3,490	2,480	1,590	1,100
60	1,000	2,400	1,590	**	**
72	770	1,670	1,100	**	**

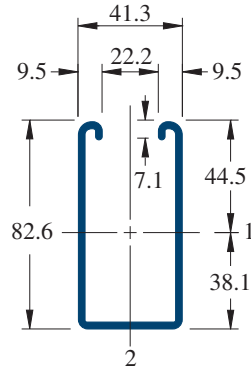
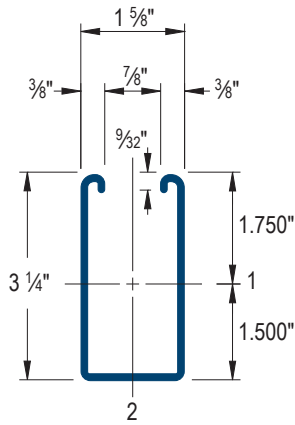


## Elements of Section

Area of Section in <sup>2</sup>	Axis 1-1			Axis 2-2		
	I in <sup>4</sup>	S in <sup>3</sup>	r in	I in <sup>4</sup>	S in <sup>3</sup>	r in
0.290	0.026	0.054	0.298	0.107	0.132	0.609

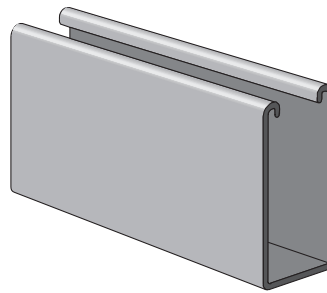


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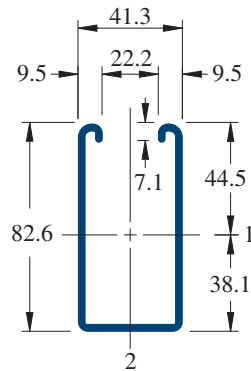
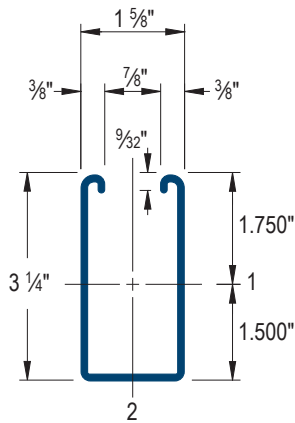
**CH5000**

3-1/4" x 1-5/8"  
 12 Gauge Channel  
 Wt/100 Ft: 305 Lbs



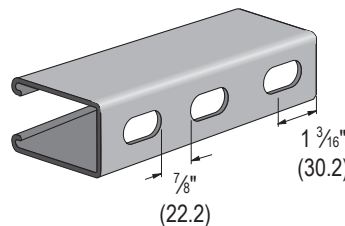
Materials & Finishes: PG

Lengths: 10' & 20'



**CH5000T**

3-1/4" x 1-5/8"  
 12 Gauge Channel  
 Wt/100 Ft: 300 Lbs

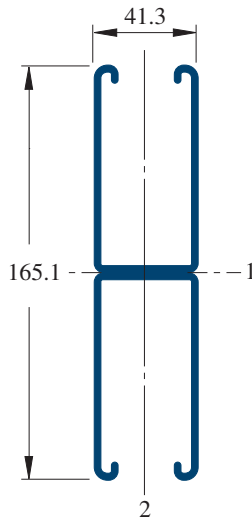
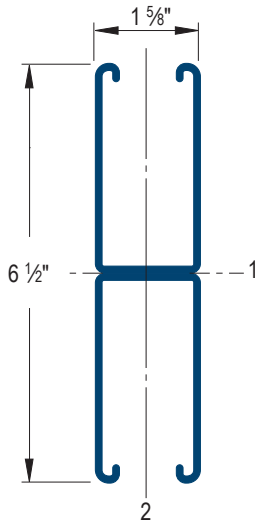


Slots are  
 1 1/8" (28.6) x 9/16" (14.3)  
 2" (50.8) on Center

Materials & Finishes: PG

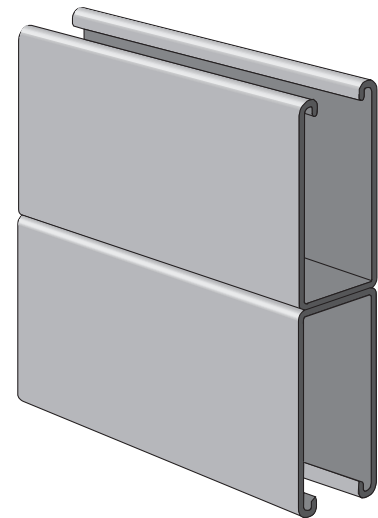
Lengths: 10' & 20'





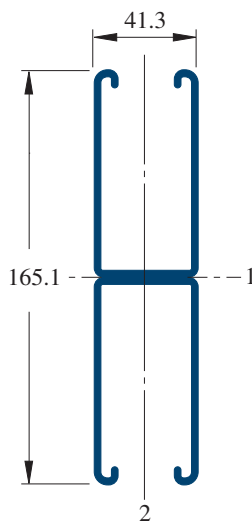
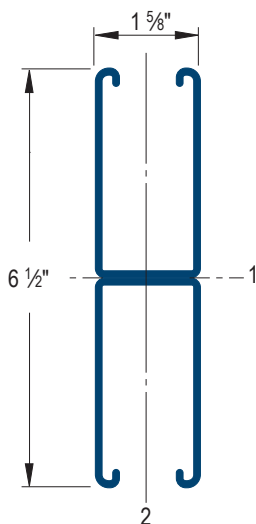
## CH5001

6-1/2" x 1-5/8"  
12 Gauge Channel  
Wt/100 Ft: 610 Lbs



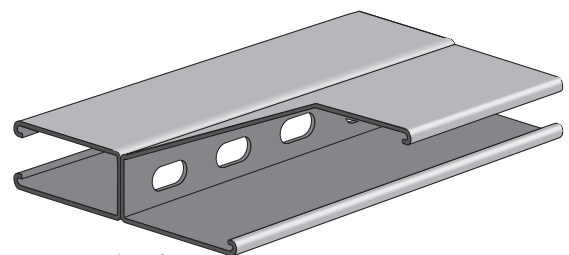
Materials & Finishes: PG

Lengths: 10' & 20'



## CH5001T

6-1/2" x 1-5/8"  
12 Gauge Channel  
Wt/100 Ft: 600 Lbs



Slots are 1 1/8" x 9/16"  
2" on Center

Materials & Finishes: PG

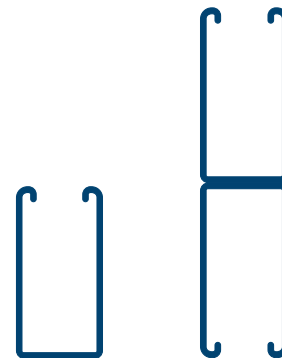
Lengths: 10' & 20'

## Beam Loading

## Column Loading

Channel No.	Span In	Max. Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
				Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
CH5000	24	5,260	0.03	5,260	5,260	5,260
CH5001		6,890*	0.01	6,890*	6,890*	6,890*
CH5000	36	3,500	0.07	3,500	3,500	3,500
CH5001		6,890*	0.02	6,890*	6,890*	6,890*
CH5000	48	2,630	0.12	2,630	2,630	2,630
CH5001		6,890*	0.05	6,890*	6,890*	6,890*
CH5000	60	2,100	0.18	2,100	2,100	1,920
CH5001		6,420	0.10	6,420	6,420	6,420
CH5000	72	1,750	0.26	1,750	1,750	1,330
CH5001		5,350	0.14	5,350	5,350	5,350
CH5000	84	1,500	0.36	1,500	1,470	980
CH5001		4,590	0.19	4,590	4,590	4,590
CH5000	96	1,310	0.47	1,310	1,120	750
CH5001		4,020	0.25	4,020	4,020	4,020
CH5000	108	1,170	0.59	1,170	890	590
CH5001		3,570	0.32	3,570	3,570	3,360
CH5000	120	1,050	0.73	960	720	480
CH5001		3,210	0.39	3,210	3,210	2,720
CH5000	144	880	1.06	670	500	330
CH5001		2,680	0.57	2,680	2,680	1,890
CH5000	168	750	1.43	490	370	240
CH5001		2,290	0.77	2,290	2,080	1,390
CH5000	192	660	1.88	370	280	190
CH5001		2,010	1.01	2,010	1,590	1,060
CH5000	216	580	2.35	300	220	150
CH5001		1,780	1.27	1,680	1,260	840
CH5000	240	530	2.95	240	180	120
CH5001		1,610	1.58	1,360	1,020	680

Channel No.	Unbraced Height In	Max. Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
			K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
CH5000	24	5,650	16,870	15,180	12,850	10,600
CH5001		10,670	39,230	38,030	36,210	34,240
CH5000	36	4,690	13,140	10,600	7,650	5,660
CH5001		10,350	36,450	34,240	31,200	28,260
CH5000	48	3,560	9,550	6,860	4,790	3,660
CH5001		9,940	33,220	30,200	26,430	23,190
CH5000	60	2,730	6,680	4,790	3,450	2,710
CH5001		9,290	29,950	26,430	22,470	19,380
CH5000	72	2,160	4,980	3,660	2,710	2,170
CH5001		8,560	26,880	23,190	19,380	16,450
CH5000	84	1,760	3,950	2,960	2,240	1,820
CH5001		7,860	24,140	20,520	17,040	12,090
CH5000	96	1,500	3,270	2,500	1,930	1,580
CH5001		7,220	21,790	18,370	13,330	9,250
CH5000	108	1,310	2,800	2,170	1,690	1,390
CH5001		6,600	19,790	16,450	10,530	7,310
CH5000	120	1,170	2,450	1,930	1,510	**
CH5001		5,760	18,130	13,330	8,530	**
CH5000	144	980	1,980	1,580	**	**
CH5001		4,390	14,020	9,250	**	**
CH5000	168	850	1,670	1,340	**	**
CH5001		3,420	10,300	6,800	**	**



## Elements of Section

Channel No.	Area of Section in <sup>2</sup>	Axis 1-1			Axis 2-2		
		I in <sup>4</sup>	s in <sup>3</sup>	r in	I in <sup>4</sup>	s in <sup>3</sup>	r in
CH5000	0.897	1.098	0.627	1.107	0.433	0.533	0.695
CH5001	1.793	6.227	1.916	1.864	0.866	1.066	0.695

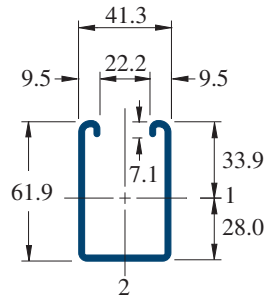
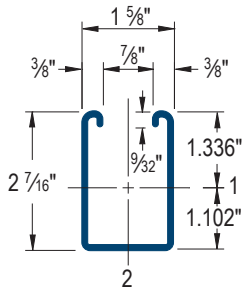
### Notes:

\* Load limited by spot weld shear.

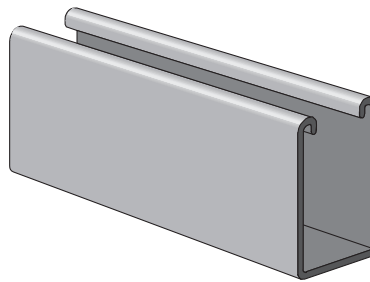
\*\*  $KL/r > 200$

NR = Not Recommended.

1. Beam loads are given in total uniform load (W lbs) not uniform load (*w lbs/ft* or *w lbs/in*).
2. Beam loads are based on a simple span and must be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity.
3. For pierced channel, multiply beam loads by the following factor:  
**"T" Series - 85%**
4. Deduct channel weight from the beam loads.
5. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%.
6. All beam loads are for bending about Axis 1-1.

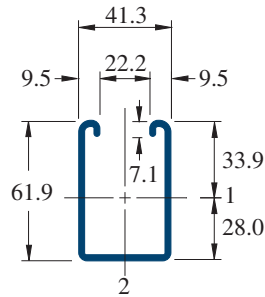
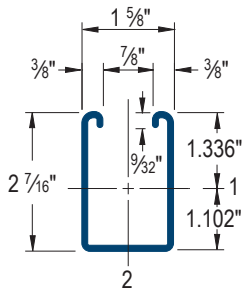


**CH5500**  
 2-7/16" x 1-5/8"  
 12 Gauge Channel  
 Wt/100 Ft: 247 Lbs

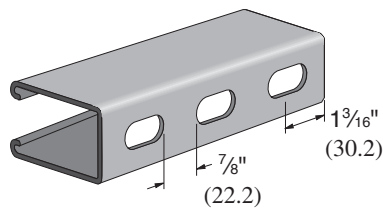


Materials & Finishes: PG

Lengths: 10' & 20'



**CH5500T**  
 2-7/16" x 1-5/8"  
 12 Gauge Channel  
 Wt/100 Ft: 242 Lbs

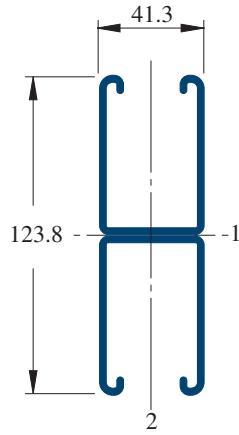
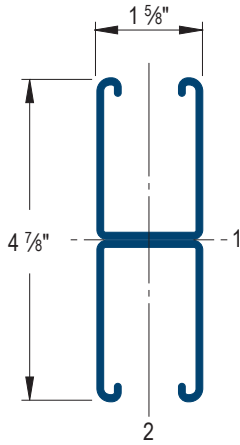


Slots are  
 1 1/8" (28.6) x 9/16" (14.3)  
 2" (50.8) on Center

Materials & Finishes: PG

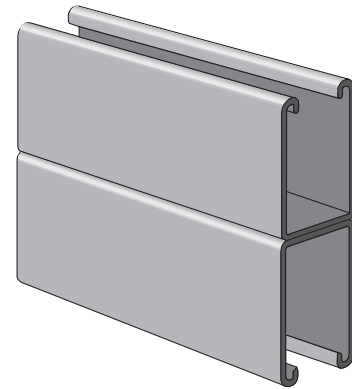
Lengths: 10' & 20'

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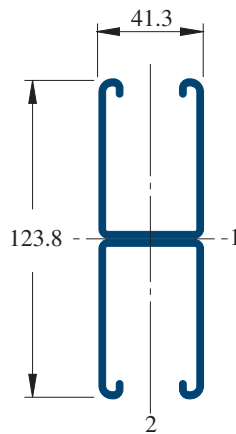
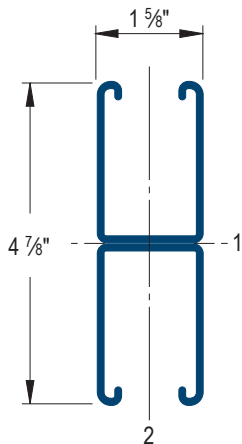
**CH5501**

4-7/8" x 1-5/8"  
 12 Gauge Channel  
 Wt/100 Ft: 494 Lbs



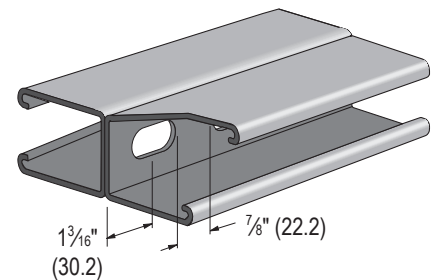
Materials & Finishes: PG

Lengths: 10' & 20'



**CH5501T**

4-7/8" x 1-5/8"  
 12 Gauge Channel  
 Wt/100 Ft: 494 Lbs



Slots are  
 1 1/8" (28.6) x 9/16" (14.3)  
 2" (50.8) on Center

Materials & Finishes: PG

Lengths: 10' & 20'

## Beam Loading

Channel No.	Span In	Max. Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
				Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
CH5500	24	3,270	0.04	3,270	3,270	3,270
CH5501		5,220*	0.01	5,220*	5,220*	5,220*
CH5500	36	2,180	0.09	2,180	2,180	2,180
CH5501		5,220*	0.04	5,220*	5,220*	5,220*
CH5500	48	1,640	0.15	1,640	1,640	1,420
CH5501		4,820	0.08	4,820	4,820	4,820
CH5500	60	1,310	0.24	1,310	1,310	910
CH5501		3,860	0.13	3,860	3,860	3,860
CH5500	72	1,090	0.34	1,090	950	630
CH5501		3,220	0.19	3,220	3,220	3,220
CH5500	84	940	0.47	930	700	470
CH5501		2,760	0.26	2,760	2,760	2,500
CH5500	96	820	0.61	710	530	360
CH5501		2,410	0.34	2,410	2,410	1,920
CH5500	108	730	0.78	560	420	280
CH5501		2,140	0.42	2,140	2,140	1,510
CH5500	120	650	0.95	460	340	230
CH5501		1,930	0.52	1,930	1,840	1,230
CH5500	144	550	1.39	320	240	160
CH5501		1,610	0.76	1,610	1,280	850
CH5500	168	470	1.89	230	170	120
CH5501		1,380	1.03	1,250	940	630
CH5500	192	410	2.46	180	130	90
CH5501		1,210	1.35	960	720	480
CH5500	216	360	3.07	140	110	70
CH5501		1,070	1.70	760	570	380
CH5500	240	330	3.86	110	90	60
CH5501		960	2.09	610	460	310

Notes:

\* Load limited by spot weld shear.

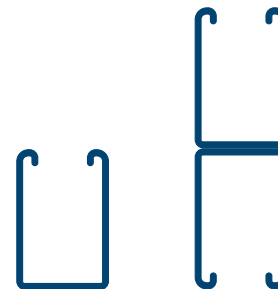
\*\*  $KL/r > 200$

NR = Not Recommended.

- Beam loads are given in *total* uniform load (W Lbs) not uniform load (*w lbs/ft or w lbs/in*).
- Beam loads are based on a simple span and must be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity.
- For pierced channel, multiply beam loads by the following factor:  
**"T" Series - 85%**
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%.
- All beam loads are for bending about Axis 1-1.

## Column Loading

Channel No.	Unbraced Height In	Max. Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
			K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
CH5500	24	4,640	13,840	12,570	10,840	9,190
CH5501		8,580	31,810	30,880	29,520	28,100
CH5500	36	3,970	11,050	9,190	7,030	5,370
CH5501		8,350	29,700	28,100	26,000	24,070
CH5500	48	3,180	8,420	6,390	4,620	3,630
CH5501		8,080	27,390	25,330	22,910	20,940
CH5500	60	2,550	6,250	4,620	3,450	2,780
CH5501		7,720	25,170	22,910	20,510	17,170
CH5500	72	2,120	4,790	3,630	2,780	2,260
CH5501		7,270	23,190	20,940	17,170	12,700
CH5500	84	1,810	3,890	3,010	2,330	1,910
CH5501		6,780	21,510	18,740	13,430	9,330
CH5500	96	1,580	3,290	2,580	2,020	1,650
CH5501		6,130	20,110	15,630	10,290	7,150
CH5500	108	1,400	2,860	2,260	1,770	1,440
CH5501		5,450	17,750	12,700	8,130	5,650
CH5500	120	1,270	2,530	2,020	1,580	**
CH5501		4,800	15,260	10,290	6,590	**
CH5500	144	1,060	2,070	1,650	**	**
CH5501		3,760	10,830	7,150	**	**
CH5500	168	920	1,750	1,380	**	**
CH5501		2,970	7,950	5,250	**	**



## Elements of Section

Channel No.	Area of Section in <sup>2</sup>	Axis 1-1			Axis 2-2		
		I in <sup>4</sup>	s in <sup>3</sup>	r in	I in <sup>4</sup>	s in <sup>3</sup>	r in
CH5500	0.726	0.522	0.390	0.848	0.334	0.411	0.679
CH5501	1.452	2.805	1.151	1.390	0.669	0.823	0.679

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**CH3184**

Wt/100 Ft: 47 Lbs

Materials & Finishes: PG Lengths: 10'

**CH3712P**

Colour: Black.

Wt/100 Ft: 5.4 Lbs

Materials & Finishes: Plastic Lengths: 10'

**GF1280**

Use with CH1000

Materials & Finishes: EG

**GF1280W**

Use with CH1000

Materials & Finishes: EG

**GF2407**

Use with CH1000

Materials & Finishes: EG

**GF3280**

Use with CH3000 or CI3270

Materials & Finishes: EG

**GF3380**

Use with CH3300 or CI3370

Materials & Finishes: EG

**GF5580**

Use with CH5500

Materials & Finishes: EG

Other sizes available by special order only. Minimum quantities may apply.

**GF2860-10**

Use with:  
CH1000  
CH1100  
CH2000  
CH9000

Materials & Finishes: VY

**GF2860-33**

Use with:  
CH3300

Materials & Finishes: VY

**GF2860-50**

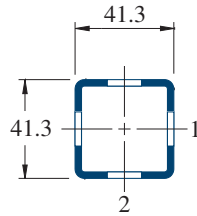
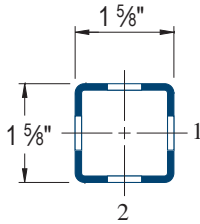
Use with:  
CH5000  
CH1001

Materials & Finishes: VY

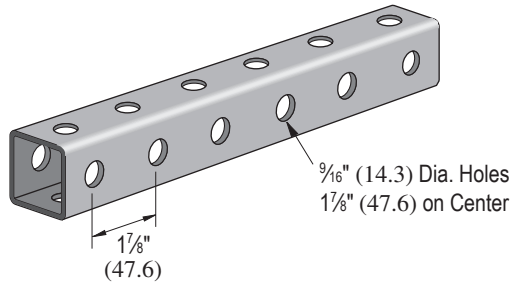
**GF2860-55**

Use with:  
CH5500

Materials & Finishes: VY

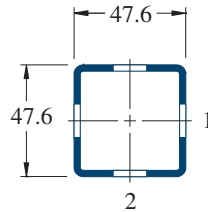
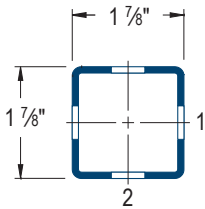


**CH9000**  
 1-<sup>5</sup>/<sub>8</sub>" x 1-<sup>5</sup>/<sub>8</sub>"  
 12 Gauge  
 Wt/100 Ft: 188 Lbs

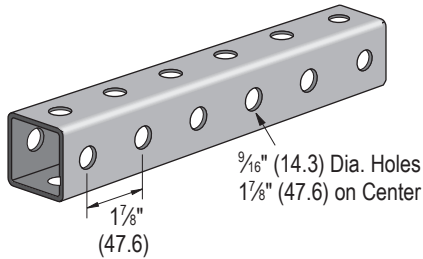


Materials & Finishes: PG

Lengths: 10' & 20'



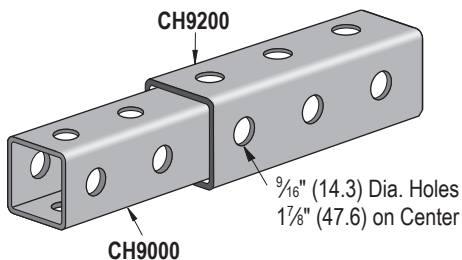
**CH9200**  
 1-<sup>7</sup>/<sub>8</sub>" x 1-<sup>7</sup>/<sub>8</sub>"  
 12 Gauge  
 Wt/100 Ft: 223 Lbs



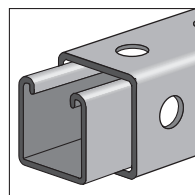
Materials & Finishes: PG

Lengths: 10' & 20'

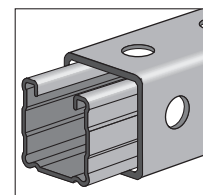
## Telescoping Strut's Power



Telescoping strut can be combined with metal framing channel



CH1000 Series



CH1100 Series

## Beam Loading

Channel No.	Span In	Max. Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
				Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
CH9000	24	1,710	0.06	1,710	1,710	1,710
CH9200		2,490	0.05	2,490	2,490	2,490
CH9000	36	1,140	0.14	1,140	1,140	810
CH9200		1,660	0.12	1,660	1,660	1,350
CH9000	48	860	0.25	860	680	450
CH9200		1,250	0.22	1,250	1,140	760
CH9000	60	690	0.40	580	440	290
CH9200		1,000	0.34	980	730	490
CH9000	72	570	0.57	400	300	200
CH9200		830	0.49	680	510	340
CH9000	84	490	0.77	300	220	150
CH9200		710	0.67	500	370	250
CH9000	96	430	1.01	230	170	110
CH9200		620	0.87	380	290	190
CH9000	108	380	1.27	180	130	90
CH9200		550	1.10	300	230	150
CH9000	120	340	1.56	150	110	70
CH9200		500	1.37	240	180	120
CH9000	144	290	2.30	100	80	50
CH9200		420	1.98	170	130	80
CH9000	168	240	3.02	70	60	40
CH9200		360	2.70	120	90	60
CH9000	192	210	3.95	60	40	NR
CH9200		310	3.47	100	70	50
CH9000	216	190	5.09	40	NR	NR
CH9200		280	4.47	80	60	NR
CH9000	240	170	6.24	40	NR	NR
CH9200		250	5.47	60	50	NR

## Column Loading

Channel No.	Unbraced Height In	Max. Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
			K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
CH9000	24	3,640	8,730	8,570	8,330	8,040
CH9200		4,620	11,120	10,980	10,740	10,460
CH9000	36	3,540	8,360	8,040	7,530	6,950
CH9200		4,530	10,770	10,460	9,950	9,370
CH9000	48	3,400	7,880	7,340	6,530	5,660
CH9200		4,390	10,300	9,760	8,940	8,030
CH9000	60	3,210	7,290	6,530	5,440	4,360
CH9200		4,220	9,720	8,940	7,800	6,590
CH9000	72	2,990	6,640	5,660	4,360	3,160
CH9200		4,000	9,050	8,030	6,590	5,180
CH9000	84	2,730	5,940	4,790	3,340	2,320
CH9200		3,750	8,320	7,080	5,410	3,890
CH9000	96	2,430	5,220	3,940	2,560	1,780
CH9200		3,460	7,560	6,110	4,290	2,980
CH9000	108	2,110	4,520	3,160	2,020	1,400
CH9200		3,140	6,770	5,180	3,390	2,360
CH9000	120	1,820	3,840	2,560	1,640	**
CH9200		2,790	5,990	4,290	2,750	1,910
CH9000	144	1,390	2,690	1,780	**	**
CH9200		2,170	4,510	2,980	1,910	**
CH9000	168	-	-	-	-	-
CH9200		1,720	3,320	2,190	**	**

Notes:

\*\*  $KL/r > 200$

NR = Not Recommended.

1. Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
2. Deduct Telescoping strut weight from the beam loads.
3. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%.

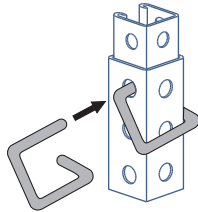


## Elements of Section

Channel No.	Area of Section in <sup>2</sup>	Axis 1-1			Axis 2-2		
		I in <sup>4</sup>	s in <sup>3</sup>	r in	I in <sup>4</sup>	s in <sup>3</sup>	r in
CH9000	0.387	0.166	0.205	0.655	0.166	0.205	0.655
CH9200	0.489	0.279	0.297	0.755	0.279	0.297	0.755



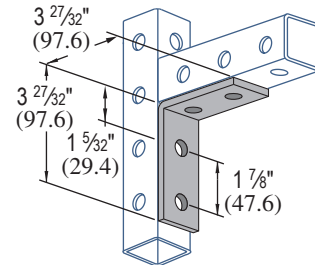
## GF9209 - GRAVITY PIN



Materials & Finishes: EG

Wt/100 pcs: 47 Lbs

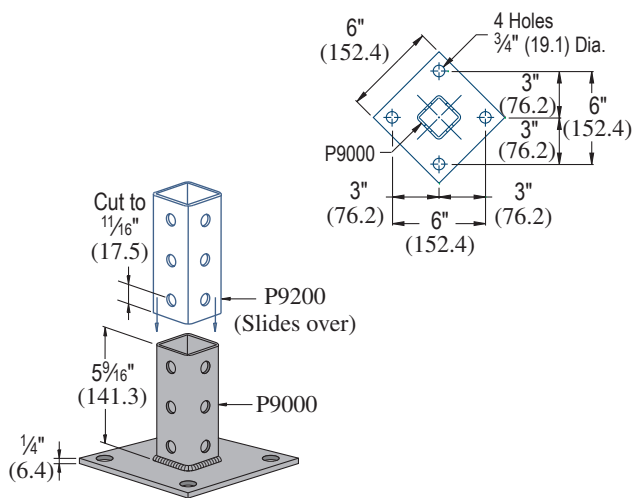
## GF9324



Materials & Finishes: EG

Wt/100 pcs: 78 Lbs

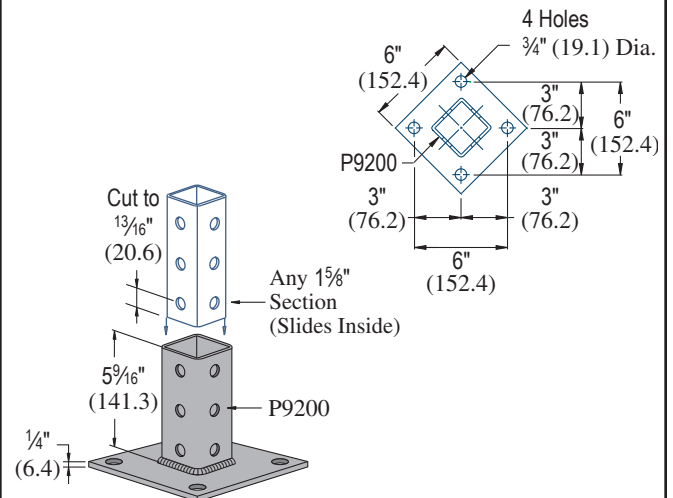
## GF9011



Materials & Finishes: GR

Wt/100 pcs: 332 Lbs

## GF9012



Materials & Finishes: GR

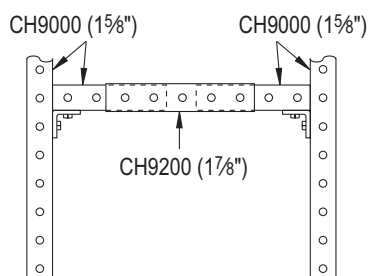
Wt/100 pcs: 340 Lbs

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

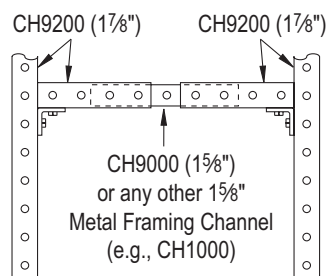
Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1 7/8" (48mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6mm)

## Telescoping Strut's Assembly

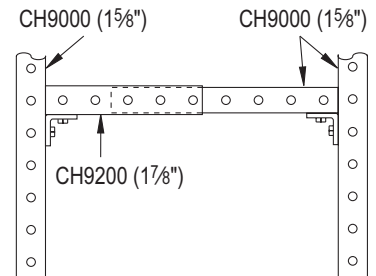
### Preferred Three-Piece Assembly

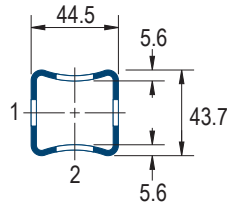
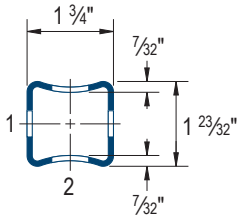


### Alternate Three-Piece Assembly



### Two-Piece Assembly



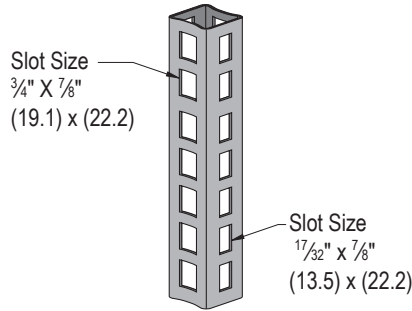


## CH16F

1-<sup>3</sup>/<sub>4</sub>" x 1-<sup>23</sup>/<sub>32</sub>"

12 Gauge

Wt/100 Ft: 178 Lbs



Materials & Finishes: HG

Length: 20'

### Beam Loading

Span In	Max Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
			Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	1,600	0.06	1,600	1,600	1,600
36	1,070	0.13	1,070	1,070	820
48	800	0.23	800	690	460
60	640	0.36	590	440	290
72	530	0.52	410	310	200
84	460	0.71	300	220	150
96	400	0.93	230	170	110
108	360	1.18	180	140	90
120	320	1.45	150	110	70
144	270	2.09	100	80	50
168	230	2.85	70	60	40

### Column Loading

Unbraced Height In	Max. Allowable Load Column Loaded at C.G. Lbs	Max. Allowable Load Column Loaded at Slot Face Lbs
24	9,600	3,300
36	9,000	3,100
48	8,300	2,900
60	7,500	2,700
72	6,600	2,400
84	5,600	2,200
96	4,500	1,900
108	3,600	1,600
120	2,900	1,400
144	2,000	1,100

Notes:

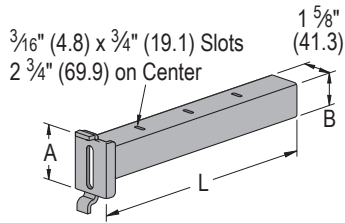
- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams must be supported in such a manner as to prevent rotation and twist.
- Allowable uniformly distributed loads are listed for various simple spans, that is, a beam on two supports. If load is concentrated at the center of the span, multiply load from the table by 0.5 and corresponding deflection by 0.8.



### Elements of Section

Area of Section in <sup>2</sup>	Axis 1-1			Axis 2-2		
	I in <sup>4</sup>	S in <sup>3</sup>	r in	I in <sup>4</sup>	S in <sup>3</sup>	r in
0.416	0.168	0.192	0.650	0.210	0.240	0.725

## CB2920 THRU CB2924 – CABLE BRACKETS



Use with CH16F

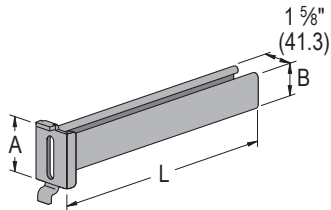
Material: 12 gauge steel.

Part Number	"L" In (mm)	"A" In (mm)	"B" In (mm)	Wt/100 pcs Lbs	Uniform Design Load Lbs
CB2920	5½ 139.7	3½ 88.9	7⁄8 22.2	90	500
CB2921	8¼ 209.6	3½ 88.9	7⁄8 22.2	120	325
CB2922	11 279.4	3½ 88.9	1½ 41.3	300	275
CB2923	13¾ 349.3	3½ 88.9	1½ 41.3	340	220
CB2924	19¼ 489.0	3½ 88.9	1½ 41.3	430	160

Safety factor of 3.

Materials & Finishes: HG

## CB2929 & CB2930 – CABLE BRACKETS



Use with CH16F

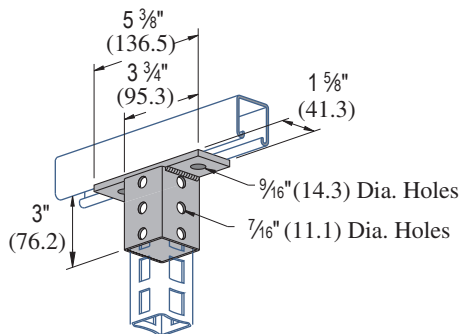
Material: 12 gauge steel.

Part Number	"L" In (mm)	"A" In (mm)	"B" In (mm)	Wt/100 pcs Lbs	Uniform Design Load Lbs
CB2929	12 304.8	3½ 88.9	1½ 41.3	320	250
CB2930	18 457.2	3½ 88.9	1½ 41.3	420	170

Safety factor of 3.

Materials & Finishes: HG

## GF2820 – CHANNEL/TUBE CONNECTORS

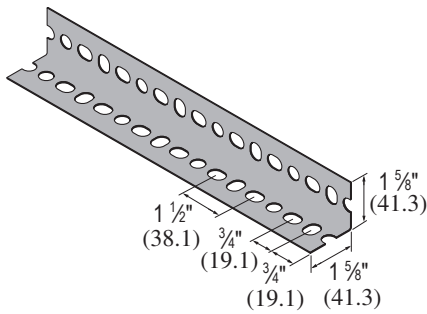


Use with CH16F

Materials & Finishes: HG

Wt/100 pcs: 116 Lbs

## CSA158 - (1 5/8" X 1 5/8" X 14 GA.) LIGHT DUTY



For those jobs where extra strength is not necessary. Ideal for light-duty shelving or racking.

Length: 10'

Materials & Finishes: PG

Wt/100 pcs: 66 Lbs

UBS Industries can cut, drill and punch holes for your custom trapezing applications. Contact us for more information.





Heavy-Duty Inserts.....46  
 Light-Duty Inserts.....46

### MATERIALS & FINISHES

Cold-formed inserts are manufactured from standard 12 gauge UBS channel sections.

To inhibit concrete seepage, all inserts (except spot inserts) are provided with closure strips and end caps or foam filler, unless otherwise requested.

Most concrete inserts are available in stainless steel on special order. Consult UBS for ordering information.

Cold-formed, standard-duty, light-duty and spot concrete inserts are available in:

**FINISH: HOT-DIPPED GALVANIZED (HG)**

For other materials, contact your UBS representative.

### APPLICATION

A wide range of heavy-duty to light-duty "continuous" and "spot" concrete inserts are available for use in pre-cast, pre-stressed or poured-in-place concrete floors, walls or ceilings.

### DESIGN LOAD

Design loads, where shown, are based on 3,000 PSI concrete, unless noted.

### LENGTHS

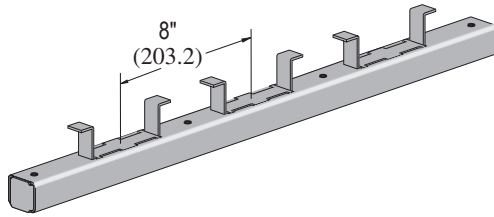
20 feet (6.10m) with a tolerance of  $\pm 1/4$ -inch (6.4mm), or we can cut to size as needed.

### DIMENSIONS

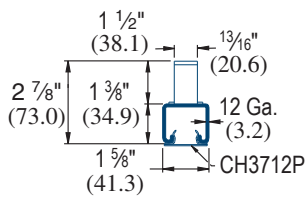
Imperial dimensions are illustrated in inches. Metric dimensions are shown in parentheses or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.

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## CI3270 - HEAVY DUTY CONCRETE INSERT



- Includes closure and end caps unless otherwise requested.
- Nail or anchor inserts to forms every 16" (406.4 mm) to 24" (609.6 mm).
- Anchors are 8" (203.2 mm) on center.
- Finish: Hot-dipped galvanized (HG) conforming to ASTM A123 or A153.



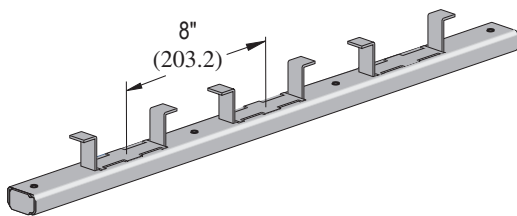
Part Number	Insert Length In/Ft. (mm)	Wt/100 pcs Lbs	Max. Allowable Point Load Lbs	Min. Spacing of Pt. Loads In (mm)	Max. Allowable Uniform Load Lbs
CI3270	20' 6,096.0	3,882	2,000	12 304.8	2,000 Lbs./Ft.

Safety factor 3.

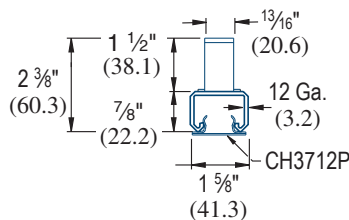
Materials & Finishes: HG

Lengths: 20'

## CI3370 - LIGHT DUTY CONCRETE INSERT



- Includes closure and end caps unless otherwise requested.
- Nail or anchor inserts to forms every 16" (406.4 mm) to 24" (609.6 mm).
- Anchors are 8" (203.2 mm) on center.
- Finish: Hot-dipped galvanized (HG) conforming to ASTM A123 or A153.

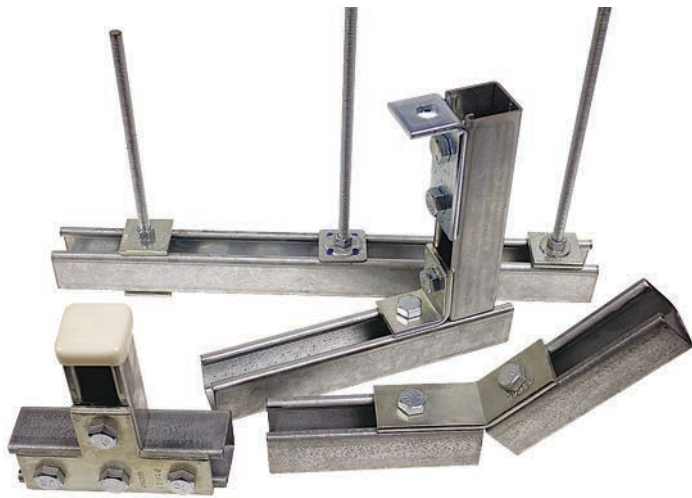


Part Number	Insert Length In/Ft. (mm)	Wt/100 pcs Lbs	Max. Allowable Point Load Lbs	Min. Spacing of Pt. Loads In (mm)	Max. Allowable Uniform Load Lbs
CI3370	20' 6,096.0	2,775	1,500	12 304.8	1,500 Lbs./Ft.

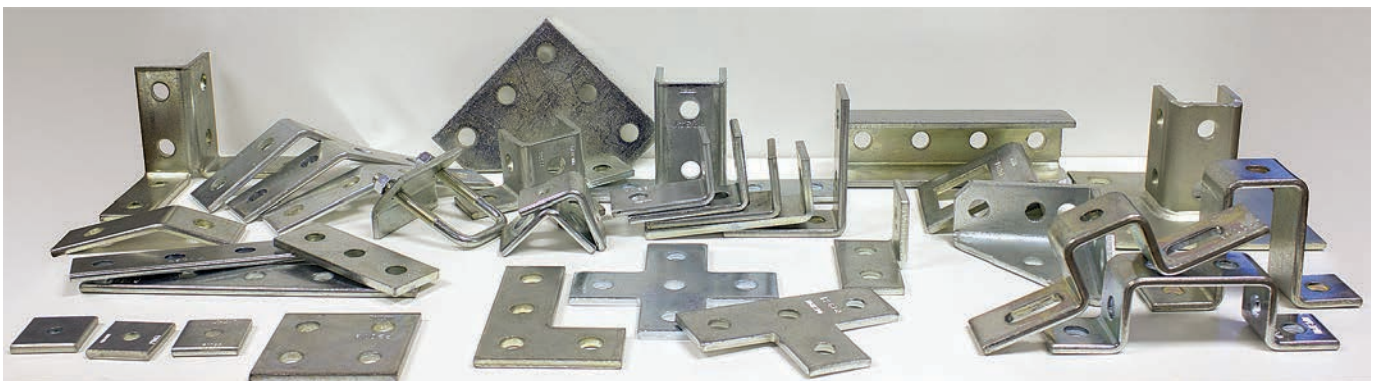
Safety factor 3.

Materials & Finishes: HG

Lengths: 20'



Flat Plate Fittings.....	49 - 50
Angular Fittings.....	51 - 53
"Z" Shape Fittings.....	53
"U" Shape Fittings.....	54
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Post Bases.....	57
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Beam Clamps.....	61 - 64
Other General Fittings.....	65
Brackets.....	66 - 68
Brace Fittings.....	68



## MATERIALS & FINISHES

Fittings are available in:

**STEEL: ELECTRO-GALVANIZED (EG)**

**STEEL: HOT-DIPPED GALVANIZED (HG)**

**STAINLESS STEEL (SS)**

For other materials and finishes, contact your UBS representative.

## DESIGN LOAD

Design load data, where shown, is based on the ultimate strength of the connection with a safety factor of 2.5, unless otherwise noted.

## DESIGN BOLT TORQUE

BOLT SIZE	1/4"-20	5/16"-18	3/8"-16	1/2"-13	5/8"-11	3/4"-10
Rec. Torque Ft/Lbs (N•m)	6 (8)	11 (15)	19 (26)	50 (68)	100 (136)	125 (170)
Max Torque Ft/Lbs (N•m)	7 (9)	15 (20)	25 (34)	70 (95)	125 (170)	135 (183)

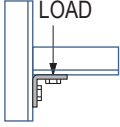
## SET SCREW TORQUE

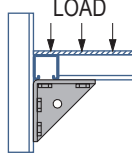
BOLT SIZE	1/4"-20	3/8"-16	1/2"-13	5/8"-11	3/4"-10	7/8"-9
Set Screw Torque In/Lbs (N•m)	40 (4)	60 (7)	125 (14)	250 (28)	400 (44.5)	665 (75)

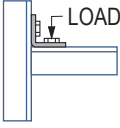
Note: Caution should be taken not to overtighten the set screw

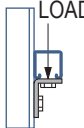
## DESIGN LOAD DATA FOR TYPICAL UBS CHANNEL CONNECTIONS

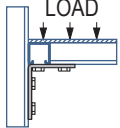
90° Fittings (When used in position shown)

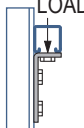
Load – GF1026	Channel Thickness			
	12 ga.	14 ga.	16 ga.	
	<b>Lbs</b> kN	<b>1,500</b> 6.67	<b>1,000</b> 4.45	<b>750</b> 3.34

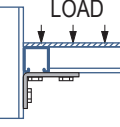
Load – GF2484	Channel Thickness			
	12 ga.	14 ga.	16 ga.	
	<b>Lbs</b> kN	<b>3,000</b> 13.34	<b>2,000</b> 8.90	<b>1,500</b> 6.67

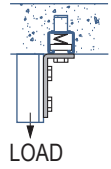
Load – GF1026	Channel Thickness			
	12 ga.	14 ga.	16 ga.	
	<b>Lbs</b> kN	<b>1,000</b> 4.45	<b>650</b> 2.89	<b>500</b> 2.22

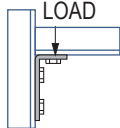
Load – GF1068	Channel Thickness			
	12 ga.	14 ga.	16 ga.	
	<b>Lbs</b> kN	<b>500</b> 2.22	<b>500</b> 2.22	<b>500</b> 2.22


Load – GF1325	Channel Thickness			
	12 ga.	14 ga.	16 ga.	
	<b>Lbs</b> kN	<b>2,000</b> 8.90	<b>2,000</b> 8.90	<b>1,500</b> 6.67

Load – GF1326	Channel Thickness			
	12 ga.	14 ga.	16 ga.	
	<b>Lbs</b> kN	<b>500</b> 2.22	<b>500</b> 2.22	<b>500</b> 2.22

Load – GF1458	Channel Thickness			
	12 ga.	14 ga.	16 ga.	
	<b>Lbs</b> kN	<b>1,500</b> 6.67	<b>1,000</b> 4.45	<b>1,000</b> 4.45

Load – GF1346	Channel Thickness			
	12 ga.	14 ga.	16 ga.	
	<b>Lbs</b> kN	<b>1,200</b> 5.34	<b>1,200</b> 5.34	<b>1,000</b> 4.45

Load – GF1346	Channel Thickness			
	12 ga.	14 ga.	16 ga.	
	<b>Lbs</b> kN	<b>2,000</b> 8.90	<b>1,500</b> 6.67	<b>900</b> 4.00

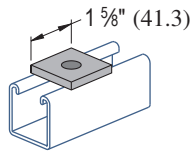
Load – GF1065	Channel Thickness			
	12 ga.	14 ga.	16 ga.	
	<b>Lbs</b> kN	<b>1,000</b> 4.45	<b>800</b> 3.56	<b>600</b> 2.67

Note:

- (1) Both ends of beams supported.
- (2) Load data is based on SN1010 nut and 1/2" bolt.
- (3) Safety factor = 2 1/2 based on ultimate strength of connection.



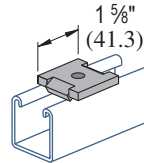
## GF1062, GF1063, GF1064, GF1964



Part Number	Bolt Size
GF1062	5/16"
GF1063	3/8"
GF1064	1/2"
GF1964	5/8"

Materials & Finishes: EG, HG, SS

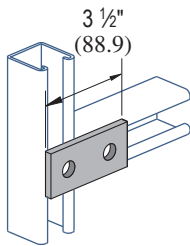
## GF2863, GF2864



Part Number	Bolt Size
GF2863	3/8"
GF2864	1/2"

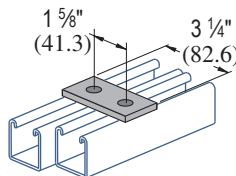
Materials & Finishes: EG

## GF1065



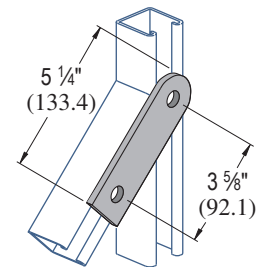
Materials & Finishes: EG Wt/100 pcs: 38 Lbs

## GF1924



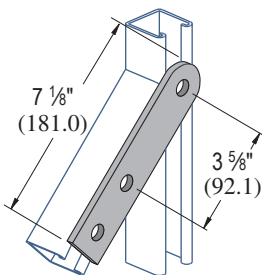
Materials & Finishes: EG Wt/100 pcs: 35 Lbs

## GF2325



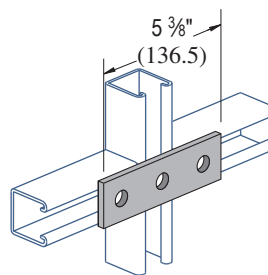
Materials & Finishes: EG Wt/100 pcs: 55 Lbs

## GF2324



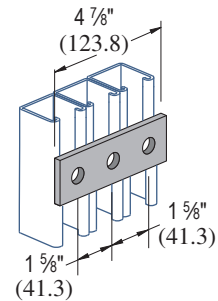
Materials & Finishes: EG Wt/100 pcs: 75 Lbs

## GF1066



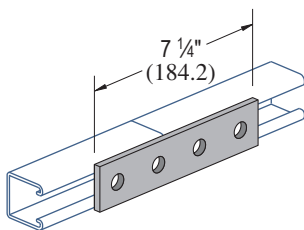
Materials & Finishes: EG Wt/100 pcs: 56 Lbs

## GF1925



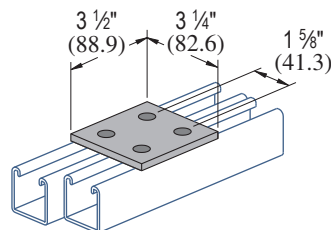
Materials & Finishes: EG Wt/100 pcs: 50 Lbs

## GF1067



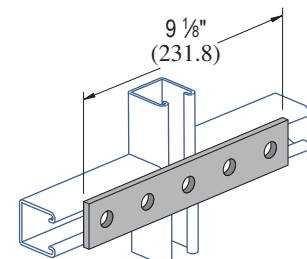
Mat/Fin: EG, HG Wt/100 pcs: 78 Lbs

## GF2079



Materials & Finishes: HG Wt/100 pcs: 73 Lbs

## GF1941



Materials & Finishes: EG Wt/100 pcs: 94 Lbs

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 3/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

- Introduction
- Channel
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- Clamps & Pipe Supports
- Seismic
- Galvanizing Compound
- Rooftop Supports
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**GF1036**

Mat/Fin: EG, HG      Wt/100 pcs: 58 Lbs

**GF1380**

Materials & Finishes: EG      Wt/100 pcs: 105 Lbs

**GF1380A**

Mat/Fin: EG, HG      Wt/100 pcs: 80 Lbs

**GF1873**

Materials & Finishes: EG      Wt/100 pcs: 150 Lbs

**GF1031**

Mat/Fin: EG, HG      Wt/100 pcs: 80 Lbs

**GF1028**

Mat/Fin: EG, HG      Wt/100 pcs: 105 Lbs

**GF1356**

Materials & Finishes: EG      Wt/100 pcs: 70 Lbs

**GF1358**

Materials & Finishes: EG      Wt/100 pcs: 105 Lbs

**GF1726**

Materials & Finishes: EG      Wt/100 pcs: 148 Lbs

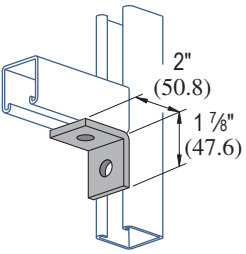
**GF1950**

Materials & Finishes: EG      Wt/100 pcs: 240 Lbs



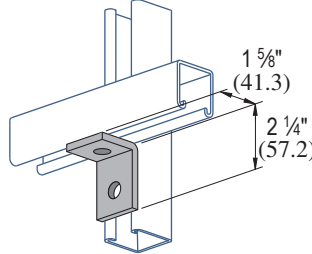
**Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)**  
 Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

**GF1026**



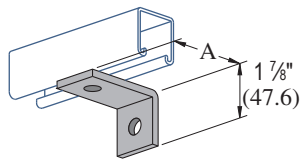
Matl/Fin: EG, HG, SS      Wt/100 pcs: 38 Lbs

**GF1068**



Matl/Fin: EG, SS      Wt/100 pcs: 38 Lbs

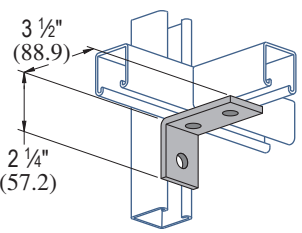
**GF1281 & GF1283**



Part Number	"A" In (mm)	Wt/100 pcs Lbs
GF1281	3 (76.2)	49
GF1283	4 (101.6)	61

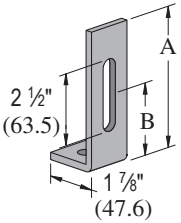
Materials & Finishes: EG, HG

**GF1458**



Matl/Fin: EG, HG      Wt/100 pcs: 58 Lbs

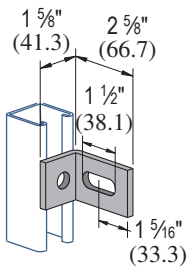
**GF1498 & GF1499**



Part Number	"A" In (mm)	"B" In (mm)	Wt/100 pcs Lbs
GF1498	4 7/8 123.8	2 1/2 63.5	65
GF1499	6 1/8 174.6	4 1/2 114.3	85

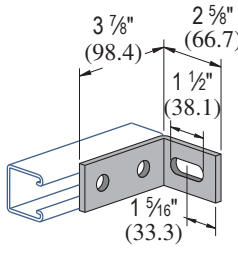
Materials & Finishes: EG

**GF1750**



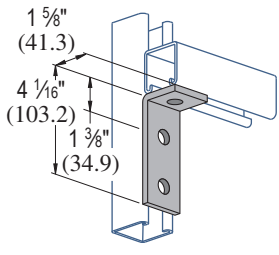
Materials & Finishes: EG      Wt/100 pcs: 38 Lbs

**GF1747**



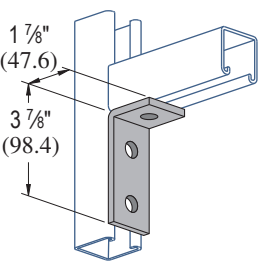
Materials & Finishes: EG      Wt/100 pcs: 66 Lbs

**GF1326**



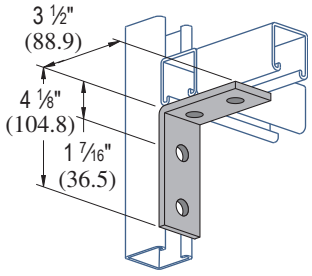
Materials & Finishes: EG      Wt/100 pcs: 58 Lbs

**GF1346**



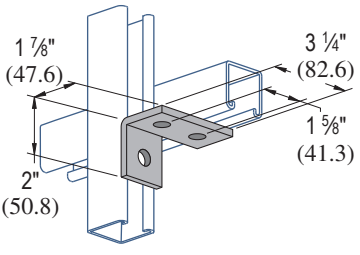
Matl/Fin: EG, HG      Wt/100 pcs: 58 Lbs

**GF1325**



Matl/Fin: EG, HG, SS      Wt/100 pcs: 78 Lbs

**GF1822**



Materials & Finishes: EG      Wt/100 pcs: 55 Lbs

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)  
 Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 3/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

Introduction  
Channel  
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**GF1823**

Materials & Finishes: EG Wt/100 pcs: 55 Lbs

**GF1033**

Materials & Finishes: EG Wt/100 pcs: 80 Lbs

**GF1038**

Materials & Finishes: EG Wt/100 pcs: 58 Lbs

**GF1357**

Materials & Finishes: EG Wt/100 pcs: 70 Lbs

**GF1359**

Materials & Finishes: EG Wt/100 pcs: 105 Lbs

**GF1934**

Materials & Finishes: EG Wt/100 pcs: 75 Lbs

**GF1727**

Materials & Finishes: EG Wt/100 pcs: 154 Lbs

**GF1728**

Materials & Finishes: EG Wt/100 pcs: 154 Lbs

**GF2626**

Materials & Finishes: EG Wt/100 pcs: 40 Lbs

**GF2484**

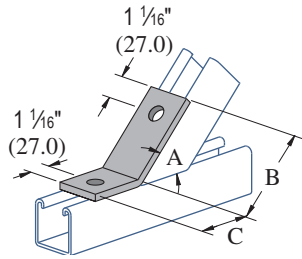
Materials & Finishes: EG Wt/100 pcs: 134 Lbs

**GF2484W**

Materials & Finishes: EG Wt/100 pcs: 134 Lbs

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)  
 Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

## GF1546 & GF2097

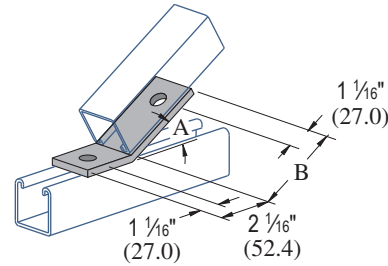


Part No.	"A" Degree (rad)	"B" In (mm)	"C" In (mm)
GF1546	45° 0.79	3 76.2	2 <sup>5</sup> / <sub>16</sub> 58.7
GF2097	60° 1.05	3 <sup>3</sup> / <sub>8</sub> 85.7	1 <sup>7</sup> / <sub>8</sub> 47.6

Materials & Finishes: EG, HG, & SS

Wt/100 pcs: 58 Lbs

## GF2101 & GF2103

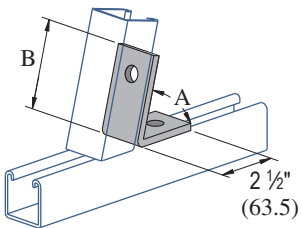


Part No.	"A" Degree (rad)	"B" In (mm)
GF2101	30° 0.52	3/4 82.6
GF2103	15° 0.26	3 <sup>3</sup> / <sub>16</sub> 84.1

Materials & Finishes: EG

Wt/100 pcs: 58 Lbs

## GF2108 & GF1186



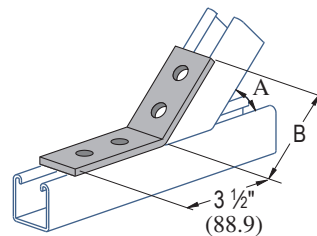
Part Number	"A" Degree (rad)	"B" In (mm)
GF1186	45° 0.79	3 <sup>1</sup> / <sub>8</sub> 79.4
GF2108	60° 1.05	3 <sup>3</sup> / <sub>16</sub> 81.0

\* Other angles available  
- Special order - Minimum quantity may apply

Materials & Finishes: EG

Wt/100 pcs: 58 Lbs

## GF2263, GF2265, GF2267

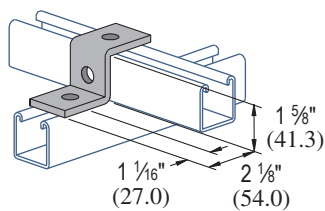


Part Number	"A" Degree (rad)	"B" In (mm)
GF2263	30° 0.52	3 <sup>1</sup> / <sub>16</sub> 93.7
GF2265	45° 0.79	3 <sup>1</sup> / <sub>16</sub> 93.7
GF2267	60° 1.05	3 <sup>1</sup> / <sub>16</sub> 93.7

Materials & Finishes: EG

Wt/100 pcs: 78 Lbs

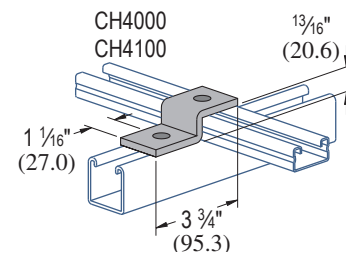
## GF1045



Materials & Finishes: EG

Wt/100 pcs: 55 Lbs

## GF4045



Materials & Finishes: EG

Wt/100 pcs: 47 Lbs

- Introduction
- Channel
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**GF1377**

Matl/Fin: EG, HG      Wt/100 pcs: 265 Lbs

**GF1044**

Materials & Finishes: EG      Wt/100 pcs: 70 Lbs

**GF4047**

Materials & Finishes: EG      Wt/100 pcs: 71 Lbs

CH3300  
CH4000  
CH4100

**GF1047**

Matl/Fin: EG, HG      Wt/100 pcs: 88 Lbs

**GF1043A**

Materials & Finishes: EG      Wt/100 pcs: 105 Lbs

CH1001A

**GF1737**

Materials & Finishes: EG      Wt/100 pcs: 128 Lbs

CH1001 (shown)  
or CH5000

**GF2473**

Materials & Finishes: EG      Wt/100 pcs: 197 Lbs

CH1001A3 (shown)  
or CH5501

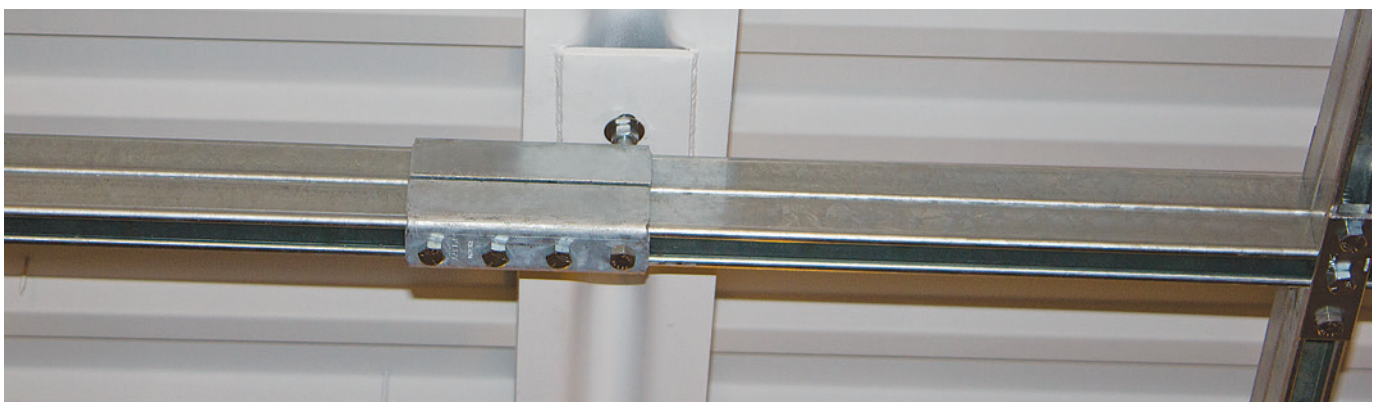
**GF2326**

Materials & Finishes: EG      Wt/100 pcs: 171 Lbs

CH1000 (shown) or CH1100

**GF1046A**

Materials & Finishes: EG      Wt/100 pcs: 76 Lbs



**Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)**

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

**GF2341R-L**

R - As shown  
L - Opposite hand

Materials & Finishes: EG    Wt/100 pcs: 60 Lbs

**GF2223**

Materials & Finishes: EG    Wt/100 pcs: 76 Lbs

**GF2225**

Materials & Finishes: EG    Wt/100 pcs: 155 Lbs

**GF2227**

Materials & Finishes: EG    Wt/100 pcs: 113 Lbs

**GF2228**

Materials & Finishes: EG    Wt/100 pcs: 177 Lbs

**GF2229**

Materials & Finishes: EG    Wt/100 pcs: 230 Lbs

**GF2345**

Materials & Finishes: EG    Wt/100 pcs: 93 Lbs

**GF2346**

Materials & Finishes: EG    Wt/100 pcs: 150 Lbs

**GF2347**

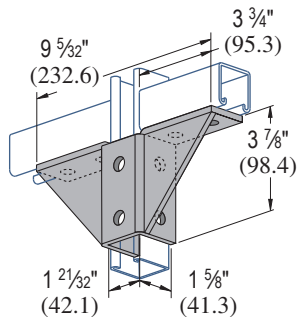
Materials & Finishes: EG    Wt/100 pcs: 193 Lbs

**Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)**

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 3/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

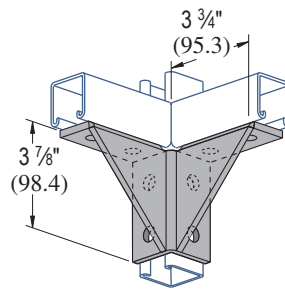
- Introduction
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- Seismic
- Galvanizing Compound
- Rooftop Supports
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**GF2348**



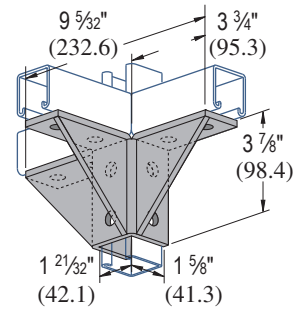
Materials & Finishes: EG Wt/100 pcs: 274 Lbs

**GF2226**



Materials & Finishes: EG Wt/100 pcs: 217 Lbs

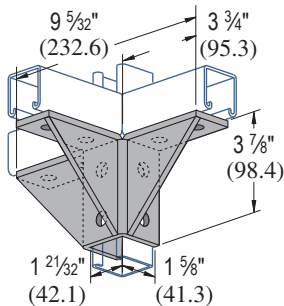
**GF2230**



Materials & Finishes: EG Wt/100 pcs: 310 Lbs

**GF2245**

Fitting notched for continuous vertical.



Materials & Finishes: EG Wt/100 pcs: 315 Lbs



Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)



**GF2072A**

Materials & Finishes: EG Wt/100 pcs: 373 Lbs

**GF2072ASQ**

Materials & Finishes: EG, HG Wt/100 pcs: 373 Lbs

**GF2073A**

CH1001

Materials & Finishes: HG Wt/100 pcs: 408 Lbs

**GF2073ASQ**

CH1001

Materials & Finishes: EG, HG Wt/100 pcs: 408 Lbs

**GF2453**

Materials & Finishes: EG Wt/100 pcs: 116 Lbs

**GF2941 & GF2942**

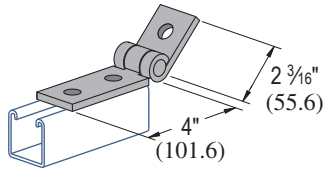
Materials & Finishes: EG Wt/100 pcs: 358 Lbs

Standard Dimensions for 1/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

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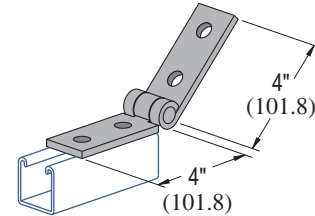
## GF1354A - ADJ. HINGE CONNECTION



Materials & Finishes: EG

Wt/100 pcs: 89 Lbs

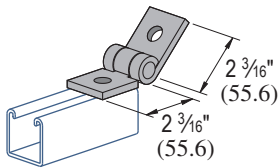
## GF1354 - ADJ. HINGE CONNECTION



Materials & Finishes: EG

Wt/100 pcs: 109 Lbs

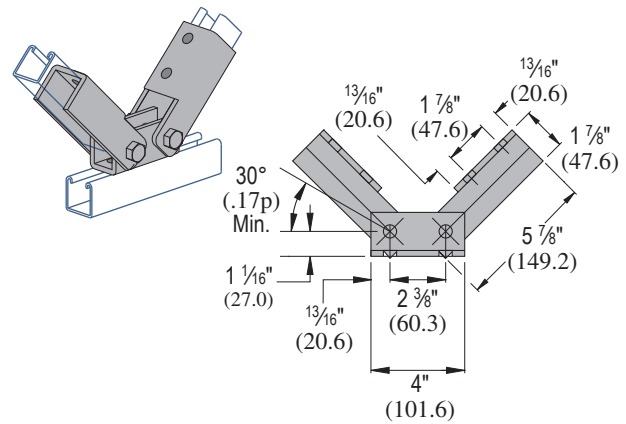
## GF1843 - ADJ. HINGE CONNECTION



Materials & Finishes: EG

Wt/100 pcs: 68 Lbs

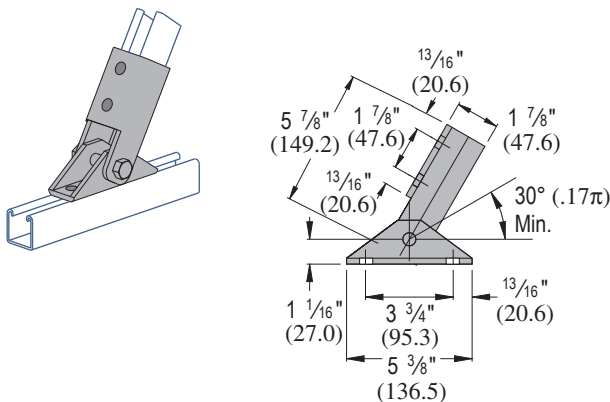
## GF2815D - ADJ. BRACE FITTING



Materials & Finishes: HG

Wt/100 pcs: 497 Lbs

## GF2815 - ADJ. BRACE FITTING



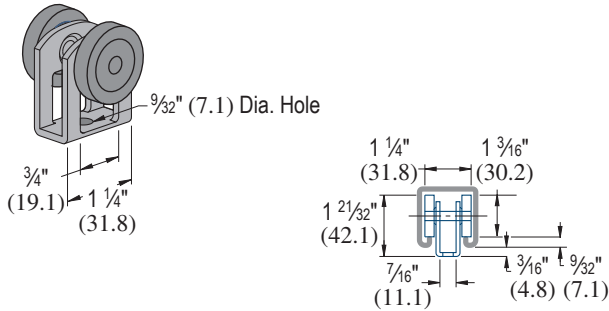
Materials & Finishes: HG

Wt/100 pcs: 307 Lbs

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

## GF2749 & GF2749N†

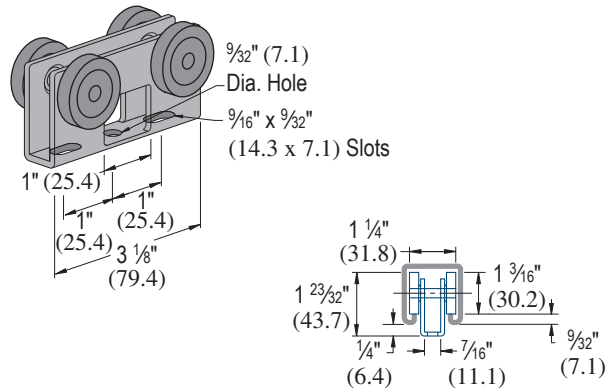


Part Number	Design Load Lbs	Wt/100 pcs Lbs
GF2749	50	21
GF2749 N	10	13

Clevis Material: 12 gauge.  
† "N" indicates acetal wheels.

Materials & Finishes: EG

## GF2750 & GF2750N†

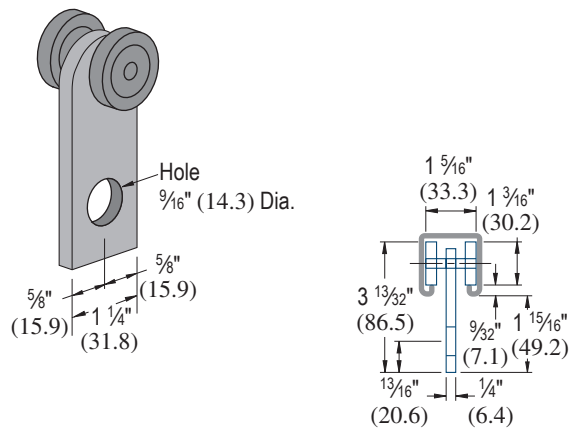


Part Number	Design Load Lbs	Wt/100 pcs Lbs
GF2750	100	55
GF2750 N	20	32

Clevis Material: 12 gauge.  
† "N" indicates acetal wheels.

Materials & Finishes: EG

## GF2949

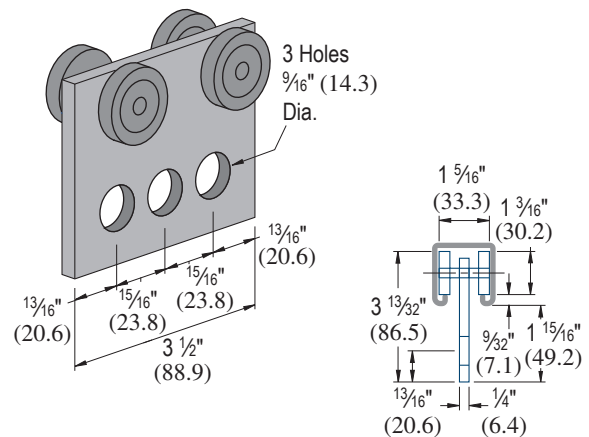


FPM	RPM	Design Load In P1000 Lbs
180	600	150
90	300	225
30	100	437

Materials & Finishes: EG

Wt/100 pcs: 46 Lbs

## GF2950



FPM	RPM	Design Load In P1000 Lbs
180	600	300
90	300	450
30	100	600

Materials & Finishes: EG

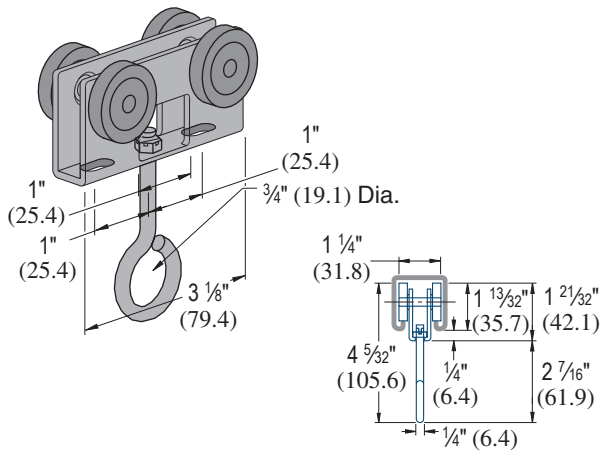
Wt/100 pcs: 110 Lbs

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)  
Note : When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.

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## GF2751 & GF2751N†

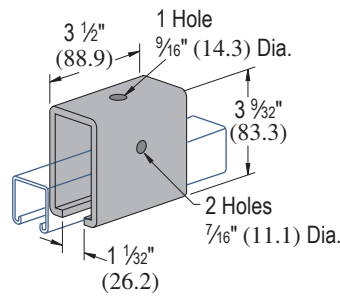


Part Number	Design Load Lbs	Wt/100 pcs Lbs
GF2751	100	63
GF2751 N	20	40

Clevis Material: 12 gauge.  
† "N" indicates acetal wheels.

Materials & Finishes: EG

## GF1834A - CHANNEL SUPPORT TROLLEY



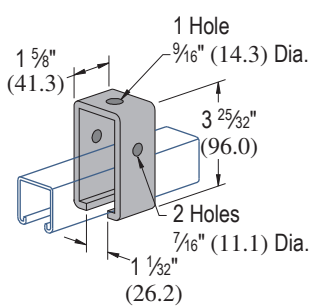
Requires 3/8" x 2 1/2" Bolt and 3/8" Nut  
(not included)

Design Load  
2,500 Lbs  
(11.12 Kn)

Materials & Finishes: EG

Wt/100 pcs: 497 Lbs

## GF1834 - CHANNEL SUPPORT TROLLEY



Requires 3/8" x 2 1/2" Bolt and 3/8" Nut  
(not included)

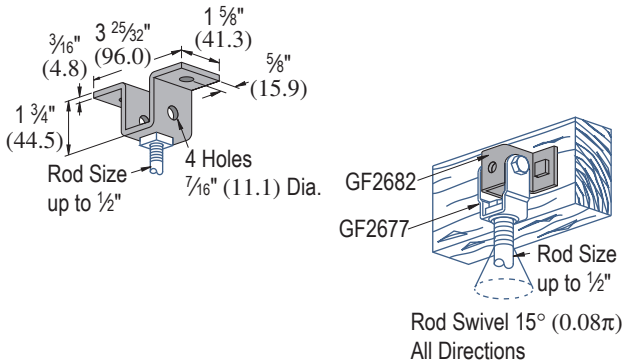
Design Load  
1,200 Lbs  
(5.34 Kn)

Materials & Finishes: EG

Wt/100 pcs: 497 Lbs

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)  
Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)  
Note : When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.

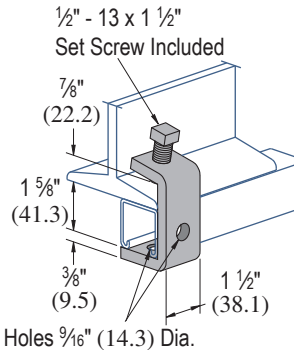
## GF2682



Hanger clevis for up to 1/2" (12.7) rod suspension from wood ceilings. May also be used with GF2677 as illustrated in application drawings.

Materials & Finishes: EG Wt/100 pcs: 55 Lbs

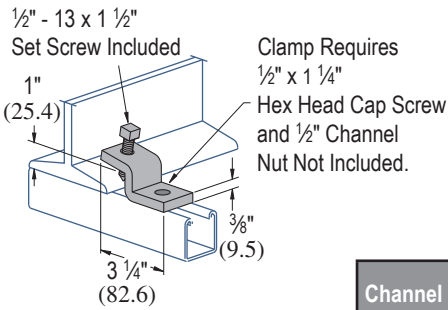
## GF1271S



Note: Requires SN1010 Channel Nut and bolt.

Materials & Finishes: EG Wt/100 pcs: 307 Lbs

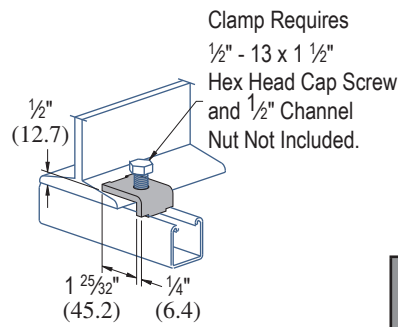
## GF1379S



Channel Style	Design Load Each Lbs (Use in Pairs Only)
CH1000	600
CH1100	500

Materials & Finishes: EG Wt/100 pcs: 75 Lbs

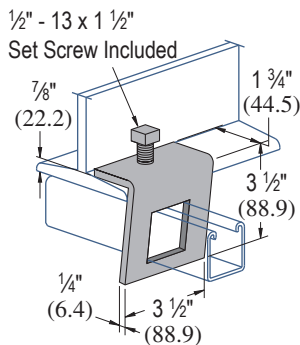
## GF1386



Channel Style	Design Load Each Lbs (Use in Pairs Only)
CH1000	600
CH1100	500

Materials & Finishes: EG Wt/100 pcs: 27 Lbs

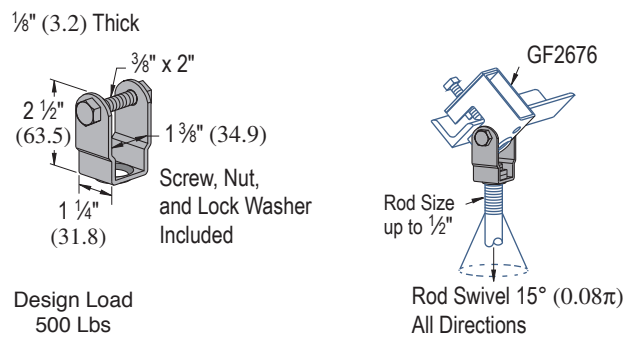
## GF1796S



Channel Style	Design Load Each Lbs (Use in Pairs Only)
CH1000	500

Materials & Finishes: EG Wt/100 pcs: 91 Lbs

## GF2677



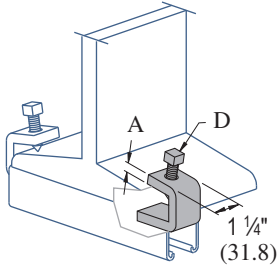
Design Load 500 Lbs

Clevis hanger to be used with GF2676 or GF2682 to provide angle adjustment and 15° (0.08 π) free swing for up to 1/2" (12.7) rod suspension. Order swivel nuts GF2679-4, -6, or -8 as required.

Materials & Finishes: EG Wt/100 pcs: 91 Lbs

Note: When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping. Clamps are designed to be used with W, M, S & HP Shape beams, Standard C & Misc. MC Channels, Angles & Structural Tees. Clamps must be used in pairs where indicated. For beam clamps with HG finish, standard hardware is EG finish. For optional stainless steel hardware, please contact the UBS for availability.

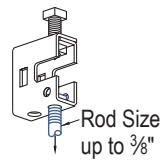
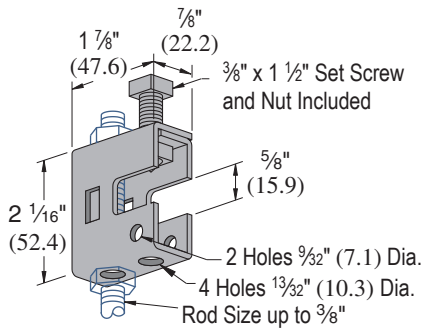
## GF1272S & GF1986S



Part Number	"A" In (mm)	Flange Thickness In (mm)	"D" Set Screw Included	Wt/100 pcs Lbs	Design Load Per Pair Lbs (Use in Pairs Only)
GF1272S	1/4	Up to 3/4	3/8-16 x 1 1/2	39	450
	6.4	Up to 19.1			
GF1986S	3/8	7/8 to 2	1/2-13 x 1 1/2	74	900
	9.5	22.2 - 50.8			

Materials & Finishes: EG

## GF2675



Design Load  
250 Lbs



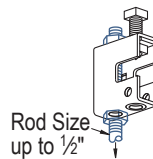
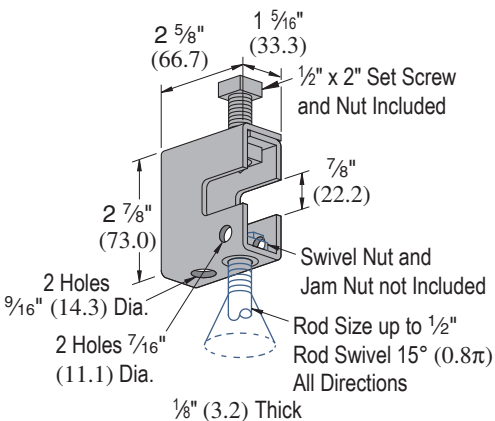
Design Load  
150 Lbs

Clamp Materials: .105" (2.7) thick steel.  
Clamp GF2675 is designed for light duty rod suspension.

Materials & Finishes: EG

Wt/100 pcs: 91 Lbs

## GF2676



Design Load  
300 Lbs

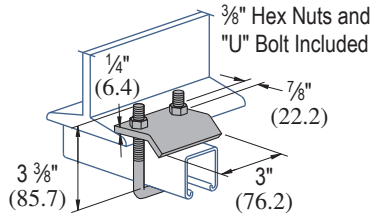


Design Load  
500 Lbs

Materials & Finishes: EG

Wt/100 pcs: 72 Lbs

## GF2785



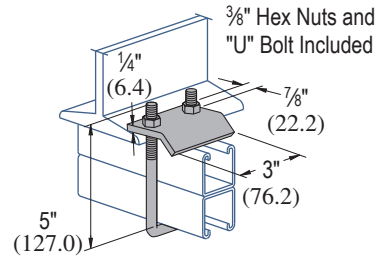
- For use with beams up to 3/4" flange thickness and Channels, CH1000, CH1100, CH2000, CH3000, CH3300, CH3301, CH4000, CH4100.

Design Load Each  
1000 Lbs  
Use in Pairs Only

Materials & Finishes: EG, SS

Wt/100 pcs: 83 Lbs

## GF2786



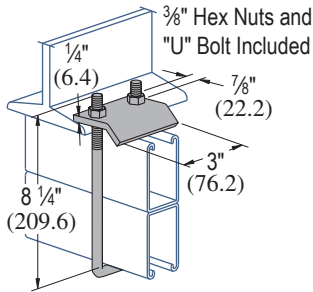
- For use with beams up to 3/4" flange thickness and Channels, CH1001, CH5000, CH5500..

Design Load Each  
1000 Lbs  
Use in Pairs Only

Materials & Finishes: EG

Wt/100 pcs: 92 Lbs

## GF2787



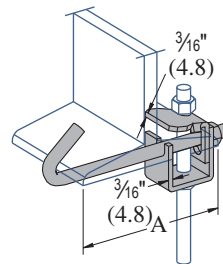
- For use with beams up to 3/4" flange thickness and Channels, CH5001, CH5501.

Design Load Each  
1000 Lbs  
Use in Pairs Only

Materials & Finishes: EG

Wt/100 pcs: 112 Lbs

## GF2824-6



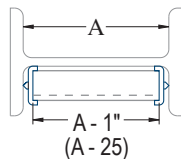
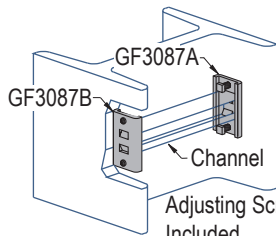
- For use with Beams up to 3/4" flange thickness

Clamp Requires  
1/2" Diameter Rod and  
2 Hex Nuts (Sold Separately)

"A" In (mm)	Wt/100 pcs Lbs	Design Load Lbs
2 1/2 - 6 63.5 - 152.4	125	500

Materials & Finishes: EG

## GF3087 - COLUMN INSERT



- Adjusting Screws Included.
- UBS channel not included.
- Part number GF3087 consists of:  
(1) piece GF3087A,  
(1) piece GF3087B and  
(2) set screws, 3/8" Dia.

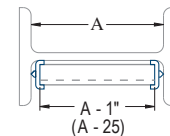
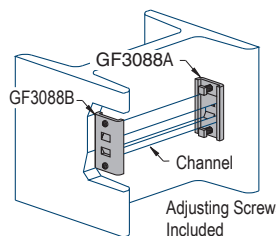
Channel Part Number	Design Pull Out Load Lbs	Design Slip Load Lbs
CH1000	1,000	800
CH1100	700	500

Safety factor of 3.

Materials & Finishes: EG

Wt/100 pcs: 136 Lbs

## GF3088 - COLUMN INSERT



- Adjusting Screws Included.
- UBS channel not included.
- Part number GF3088 consists of:  
(1) piece GF3088A,  
(1) piece GF3088B and  
(2) set screws, 3/8" Dia.

Channel Part Number	Design Pull Out Load Lbs	Design Slip Load Lbs
CH3000	1,000	800
CH4100	700	500
CH4000	500	300

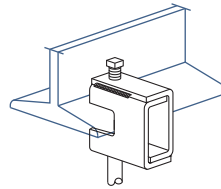
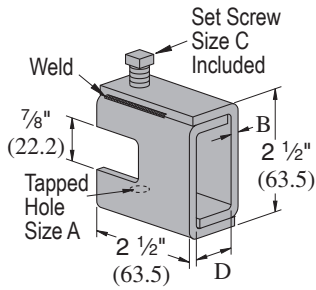
Safety factor of 3.

Materials & Finishes: EG

Wt/100 pcs: 120 Lbs

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## GF1649AS & GF1650AS



For beams under 7/8" (22.2) thick flange.

Weld is not continuous it is either 1 1/4" (31.8) - 1 3/4" (44.5) long or 2 spot welds. All welds are on the top and bottom.

Part Number	"A" In	"B" In (mm)	"C" In	"D" In (mm)	Wt/100 pcs Lbs	Design Load Lbs
GF1649AS	5/16 - 18	1/8 3.2	3/8 x 1 1/2	7/8 22.2	67	650
GF1650AS	3/8 - 16	3/16 4.8	1/2 x 1 1/2	1 5/16 23.8	100	1,100

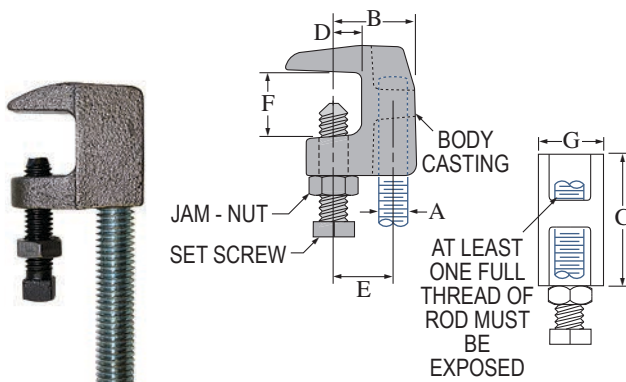
Materials & Finishes: EG

## GF416-12 - RETAINING STRAP



Materials & Finishes: EG

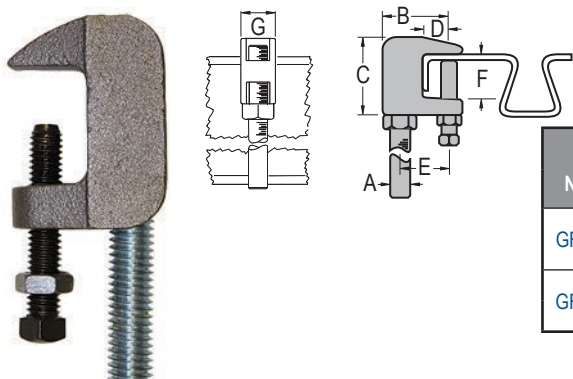
## GF406 - TOP BEAM CLAMP



Part Number	Rod Size	Specification Data					Max Pipe Dia. G	Recommended Max. Load (lbs)	Appx. Wt. per 100 (lbs)
		B	C	D	E	F			
GF406 - 3/8"	9.5	1 1/4	1 1/2	1/2	7/8	3/4	7/8	350	32
	31.8	38.1	12.7	22.2	19.1	22.2			
GF406 - 1/2"	12.7	1 9/16	1 1/2	1/2	1	3/4	7/8	470	32
	33.3	38.1	12.7	25.4	19.1	22.2			

Materials & Finishes: EG, PL, SS

## GF407 - WIDE MOUTH TOP BEAM CLAMP

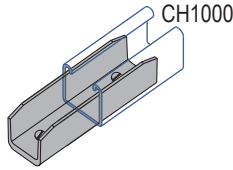


Part Number	Rod Size	Specification Data					Max Pipe Dia. G	Recommended Max. Load (lbs)	Appx. Wt. per 100 (lbs)
		B	C	D	E	F			
GF407 - 3/8"	9.5	1 3/8	2	1/2	1	1 1/4	7/8	400	55
	34.9	50.8	12.7	25.4	31.8	22.2			
GF407 - 1/2"	12.7	1 3/8	2	1/2	1	1 1/4	7/8	500	56
	34.9	50.8	12.7	25.4	31.8	22.2			

Materials & Finishes: EG, PL



## GF2900 & GF2900T IN CHANNEL JOINERS

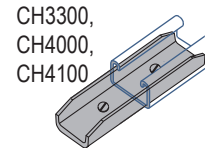


\* "T" for use with Slotted Channel  
Set Screws Included

Materials & Finishes: PG

Wt/100 pcs: 20 Lbs

## GF2904T - IN CHANNEL JOINERS

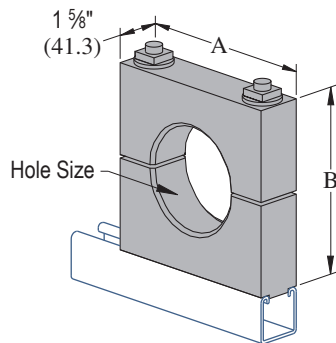


\* "T" for use with Slotted Channel  
Set Screws Included

Materials & Finishes: PG

Wt/100 pcs: 12 Lbs

## CB2645A THRU CB2645H - MAPLE BLOCK CLAMPS



- Specify hole size and spacing when ordering
- Available with or without hardware
- For hi-voltage cable use
- All parts are custom order, contact UBS Ind. for details

Part Number	Hole Size In (mm)	"A" & "B" Dimensions In (mm)	Wt/100 pcs Lbs
CB2645A	0 - 1 0 - 25.4	3½ 88.9	84
CB2645B	1 - 1½ 25.4 x 38.1	4 101.6	102
CB2645C	1½ - 2 38.1 - 50.8	4½ 114.3	121
CB2645D	2 - 2½ 50.8 x 63.5	5½ 139.7	165
CB2645E	2½ - 3 63.5 - 76.2	6 152.4	189
CB2645F	3 - 3½ 76.2 x 88.9	6½ 165.1	215
CB2645G	3½ - 4 88.9 - 101.6	7 177.8	243
CB2645H	over 4 over 101.6	-	-

Materials & Finishes: Maple

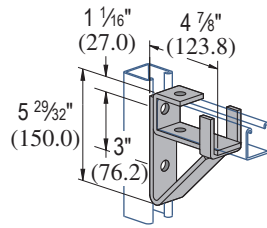
Standard Dimensions for 1½" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6mm); Hole Spacing - On Center: 1½" (47.6mm); Width: 1½" (41.3mm); Thickness: ¼" (6.4mm)

Note : When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.

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## CB1075 - BRACKET

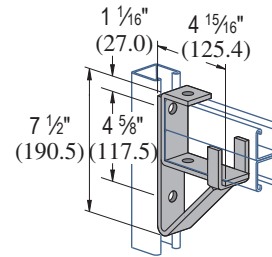


For use with CH1000 or CH1100 Channel  
Material: 1/4" (6.4) thick steel.

Materials & Finishes: EG

Wt/100 pcs: 229 Lbs

## CB1593 - BACK-TO-BACK BRACKET

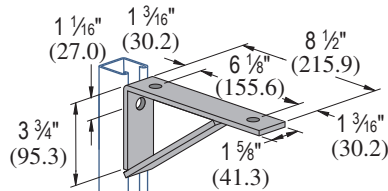


For use with CH1001 or CH5000 Channel  
Material: 1/4" (6.4) thick steel.

Materials & Finishes: EG

Wt/100 pcs: 272 Lbs

## CB1769 - FITTING BRACKET



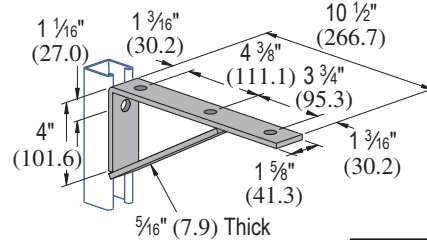
Vertical Channel		Uniform Design Load Lbs
Part No.	Gauge	
CH1000	12	800
CH1100	14	600
CH2000	16	400

Material: 1/4" (6.4) thick steel.

Materials & Finishes: EG

Wt/100 pcs: 174 Lbs

## CB1771 - FITTING BRACKET



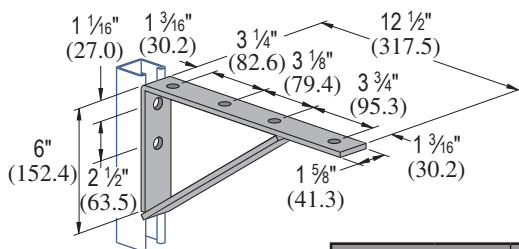
Vertical Channel		Uniform Design Load Lbs
Part No.	Gauge	
CH1000	12	800
CH1100	14	600
CH2000	16	400

Material: 1/4" (6.4) thick steel.

Materials & Finishes: EG

Wt/100 pcs: 206 Lbs

## CB1773 - FITTING BRACKET



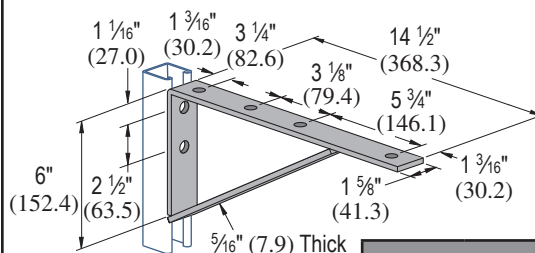
Vertical Channel		Uniform Design Load Lbs
Part No.	Gauge	
CH1000	12	900
CH1100	14	800
CH2000	16	450

Material: 1/4" (6.4) thick steel.

Materials & Finishes: EG

Wt/100 pcs: 264 Lbs

## CB1775 - FITTING BRACKET



Vertical Channel		Uniform Design Load Lbs
Part No.	Gauge	
CH1000	12	900
CH1100	14	800
CH2000	16	450

Material: 1/4" (6.4) thick steel.

Materials & Finishes: EG

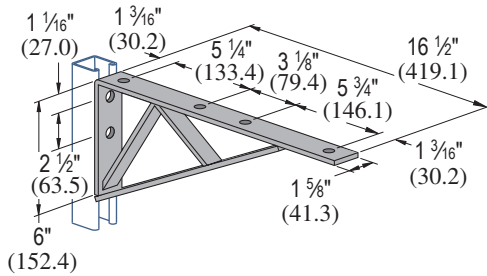
Wt/100 pcs: 295 Lbs

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 5/16" (14.3mm); Hole Spacing - From End: 1 3/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

Note : When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.

## CB1777 - FITTING BRACKET



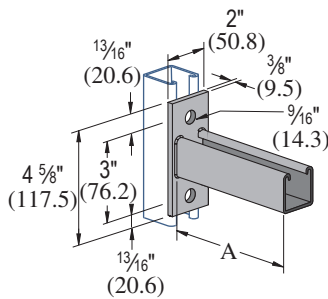
Material: 1/4" (6.4) thick steel.

Vertical Channel		Uniform Design Load Lbs
Part No.	Gauge	
CH1000	12	1,200
CH1100	14	900
CH2000	16	600

Materials & Finishes: EG

Wt/100 pcs: 264 Lbs

## CB2944 THRU CB2947 - CANTILEVER BRACKET

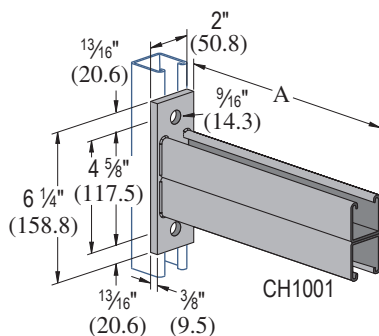


Part Number	"A" In (mm)	Wt/100 pcs Lbs	Uniform Load* Lbs
CB2944	6 152.4	185	1200
CB2945	12 304.8	293	600
CB2946	18 457.2	401	400
CB2947	24 609.6	509	300

Materials & Finishes: HG

Wt/100 pcs: 264 Lbs

## CB2542 THRU CB2546 - BACK-TO-BACK CANTILEVER BRACKET



Part Number	"A" In (mm)	Wt/100 pcs Lbs	Vertical Channel		Uniform Design Load Lbs
			Part No.	Gauge	
CB2542	12 304.8	502	CH1000	12	2,000
			CH1100	14	1,400
			CH2000	16	1,000
CB2543	18 457.2	692	CH1000	12	1,300
			CH1100	14	900
			CH2000	16	650
CB2544	24 609.6	882	CH1000	12	1,000
			CH1100	14	700
			CH2000	16	500
CB2545	30 762.0	1,072	CH1000	12	800
			CH1100	14	560
			CH2000	16	400
CB2546	36 914.4	1,262	CH1000	12	650
			CH1100	14	450
			CH2000	16	320

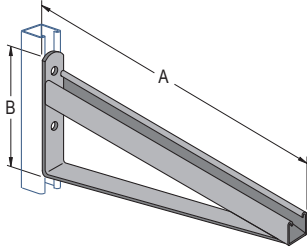
Materials & Finishes: HG

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

Note : When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.

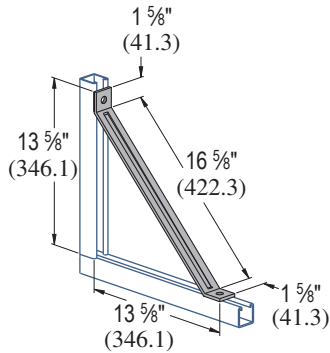
## CB2547 THRU CB2551 – CABLE TRAY BRACKET



Part Number	"A" In (mm)	"B" In (mm)	Wt/100 pcs Lbs	Uniform Load* Lbs
CB2547	15 381.0	8 <sup>3</sup> / <sub>4</sub> 222	420	1,000
CB2548	21 533.4	8 <sup>3</sup> / <sub>4</sub> 222	628	1,000
CB2549	27 685.8	11 <sup>1</sup> / <sub>4</sub> 286	860	900
CB2550	33 838.2	11 <sup>1</sup> / <sub>4</sub> 286	1010	900
CB2551	39 990.6	16 406.4	1257	800

Materials & Finishes: HG

## GF2452 – KNEE BRACE

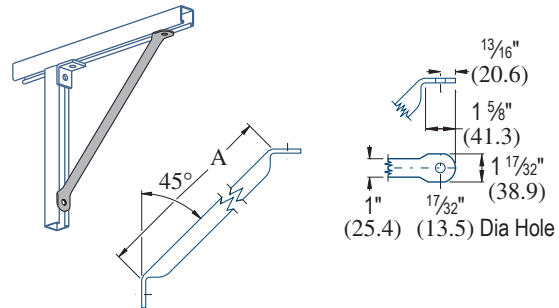


Material: 1/4" (6.4) thick steel.  
Design Axial Load 1200 Lbs

Materials & Finishes: EG

Wt/100 pcs: 55 Lbs

## GF2458-18 – TUBULAR KNEE BRACE



Design Loads  
Compression = 1500 Lbs  
Tension = 300 Lbs

Part Number	"A" In (mm)	Wt/100 pcs Lbs
GF2458-18	18 457.2	146

Materials & Finishes: GR

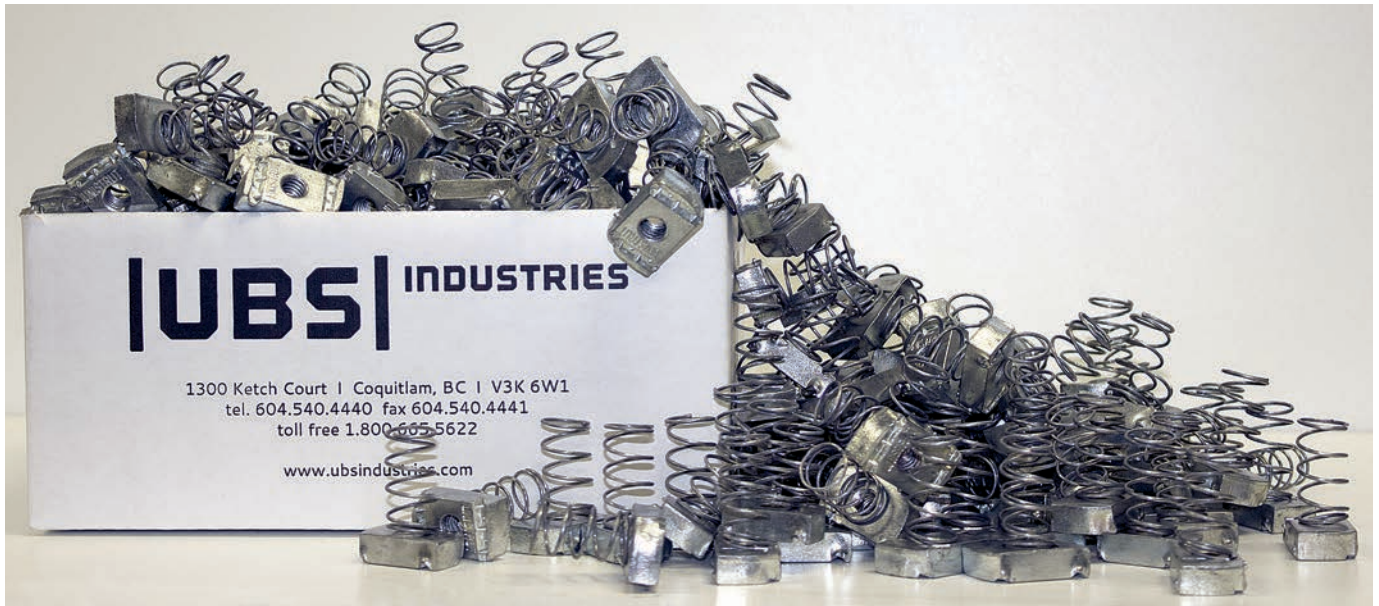
**Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings** (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

**Note :** When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.



Channel Nuts .....	70
Threaded Rods .....	71
Hardware .....	71 - 74



**UBS INDUSTRIES**

1300 Ketch Court | Coquitlam, BC | V3K 6W1  
 tel. 604.540.4440 fax 604.540.4441  
 toll free 1.800.665.5622  
 www.ubsindustries.com

### MATERIALS & FINISHES

UBS channel nuts are case hardened, assuring positive biting action into the inturned edge of the UBS channel.

Nuts, bolts and washers are available in:

- STEEL: ELECTRO-GALVANIZED (EG)**
- STAINLESS STEEL (SS)**

### DESIGN BOLT TORQUE

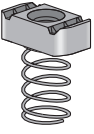
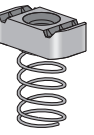
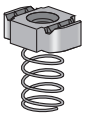



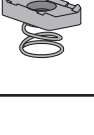
BOLT SIZE	1/4"-20	5/16"-18	3/8"-16	1/2"-13	5/8"-11	3/4"-10
Rec.Torque Ft/Lbs (N·m)	6 (8)	11 (15)	19 (26)	50 (68)	100 (136)	125 (170)
Max Torque Ft/Lbs (N·m)	7 (9)	15 (20)	25 (34)	70 (95)	125 (170)	135 (183)




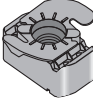
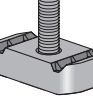
### THREADS

All threads on the nuts and bolts are Unified and American coarse screw threads.

## CHANNEL NUT WITH SPRING

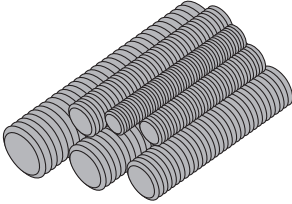
## CHANNEL NUT WITHOUT SPRING

Introduction	Channel	Concrete Inserts	General Fittings	Spring Nuts & Hardware	Clamps & Pipe Supports	Seismic	Galvanizing Compound	Roofing Supports	Erectastep	Sign Posts	Mechanical Tube	Index	Part Number	Nut Size Thread	Wt/100 pcs Lbs	Use With
														SN1006-1420 EG SN1006-1420 SS	1/4" -20	7
SN1007 EG	5/16" -18	6														
SN1008 EG	3/8" -16	10														
SN1008 SS																
SN1010 EG	1/2" -13	12														
SN1010 SS																
	Part Number	Nut Size Thread	Wt/100 pcs Lbs	Use With												
SN M10 EG	M10	10	CH1000, CH1100, CH3000													
SN M8 EG	M8	10	CH1000, CH1100, CH3000													
	Part Number	Nut Size Thread	Wt/100 pcs Lbs	Use With												
SN1012S EG	5/8" -11	21	CH1000, CH1100, CH3000													
SN1023S EG	3/4" -10	21	CH1000, CH1100, CH3000													
	Part Number	Nut Size Thread	Wt/100 pcs Lbs	Use With												
SN4006-1420 EG SN4006-1420 SS	1/4" -20	7	CH3300, CH4000, CH4100													
SN4007 EG	5/16" -18	6														
SN4008 EG	3/8" -16	9														
SN4010 EG	1/2" -13	8														
	Part Number	Nut Size Thread	Wt/100 pcs Lbs	Use With												
SN4012S EG	5/8" -11	10	CH3300, CH4000, CH4100													
	Part Number	Nut Size Thread	Wt/100 pcs Lbs	Use With												
SN5508 EG	3/8" -16	10	CH5500													
SN5510 EG	1/2" -13	12														
	Part Number	Nut Size Thread	Wt/100 pcs Lbs	Use With												
SN7006-1420	1/4" -20	1	CH4000, CH4100													

Introduction	Channel	Concrete Inserts	General Fittings	Spring Nuts & Hardware	Clamps & Pipe Supports	Seismic	Galvanizing Compound	Roofing Supports	Erectastep	Sign Posts	Mechanical Tube	Index	Part Number	Nut Size Thread	Wt/100 pcs Lbs	Use With
														SN1023 EG	3/4" -10	20
	Part Number	Nut Size Thread	Wt/100 pcs Lbs	Use With												
SN3006-1420 EG	1/4" -20	6	Any Channel													
SN3008 EG	3/8" -16	9	Any Channel													
SN3010 EG	1/2" -13	11	Any Channel Except CH3300, CH4000, CH4100													
SN3013 EG	1/2" -13	8	CH3300, CH4000, CH4100													
	Part Number	Nut Size Thread	Wt/100 pcs Lbs	Use With												
SN1016 EG	3/8" -16	17.5	Any Slotted Channel													
	Part Number	Nut Size Thread	Wt/100 pcs Lbs	Use With												
SN1008 T EG	3/8" -16	10	Any Channel													
SN1010 T EG	1/2" -13	12	Any Channel Except CH3300, CH4000, CH4100													
SN4008 T SS	3/8" -16	12	CH1000, CH2000, CH3000, CH5500													
SN4010 T EG	1/2" -13	8	CH3300, CH4000, CH4100													
	Part Number	Nut Size Thread	Wt/100 pcs Lbs	Use With												
SN14 EG	1/4" -20	11	Any Channel													




### PLATED THREADED ROD



Size	Wt/100 Ft. Lbs (kg)
1/4"	13
3/8"	30
1/2"	53
5/8"	84
3/4"	124
7/8"	170

Materials & Finishes: EG Lengths: 10'

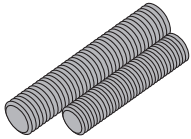
### HEX NUT



Size	Wt/100 Ft. Lbs
1/4"	0.6
5/16"	1.2
3/8"	1.6
1/2"	4.8
5/8"	7.3

Materials & Finishes: EG, SS


### STAINLESS STEEL THREADED ROD



Size	Wt/100 Ft. Lbs (kg)
3/8"	30
1/2"	53

Materials & Finishes: SS (304 & 316) Lengths: 12'

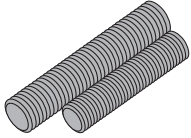
### LOCK WASHER



Size	Wt/100 Ft. Lbs
1/4"	0.25
5/16"	0.41
3/8"	0.63
1/2"	1.32
5/8"	2.20

Materials & Finishes: EG, SS

### B7 THREADED ROD




Made from ASTM A193 GR B7

Size	Wt/100 Ft. Lbs (kg)
3/8"	30
5/8"	84

Materials & Finishes: ZD Lengths: 6'

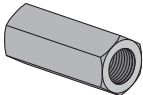
### FLAT WASHER



Size	Wt/100 Ft. Lbs
1/4"	0.8
5/16"	1.0
3/8"	1.5
1/2"	3.5
5/8"	7.7

Materials & Finishes: EG, SS

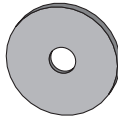
### ROD COUPLER



Size	Wt/100 Ft. Lbs (kg)
1/4"	13
3/8"	30
1/2"	53
5/8"	84

Materials & Finishes: EG

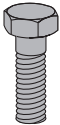
### FENDER WASHER



Size	Wt/100 Ft. Lbs
1/4"	1.0
3/8"	3.0
1/2"	6.0
5/8"	9.0

Materials & Finishes: EG, SS

### HEX BOLT



Size	Lengths Available
1/4"	3/4" - 1 1/4"
5/16"	1 1/2" - 5"
3/8"	3/4" - 7"
1/2"	1" - 4"

Materials & Finishes: EG, SS

Introduction

Channel

Concrete Inserts

General Fittings

Spring Nuts &amp; Hardware

Clamps &amp; Pipe Supports

Seismic

Galvanizing Compound

Rooftop Supports

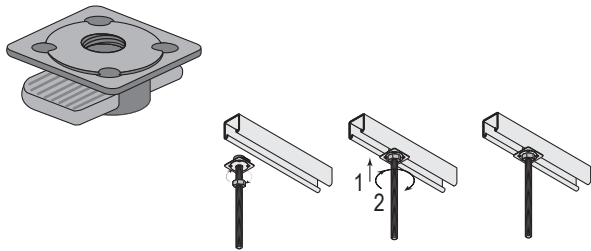
Erectastep

Sign Posts

Mechanical Tube

Index

## KWIK WASHER™

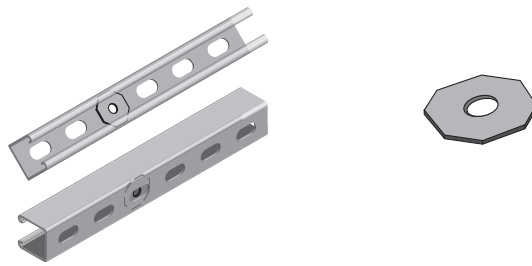


Overhead installation with one hand.

Part No.	Size In (mm)	Load Lbs	Wt/100 pcs Lbs
GFK1062 EG	¼" (6.4)	250	1.2
GFK1063 EG	⅜" (9.5)	610	2.6
GFK1064 EG	½" (12.7)	1,130	9.3

Materials & Finishes: EG

## SLOT ADAPTER™



Part No.	Bolt Size	Wt/100 pcs Lbs
GFAA025	¼" (6.4)	1
GFAA037	⅜" (9.5)	1.5

Materials & Finishes: EG



Introduction  
Channel  
Concrete Inserts  
General Fittings  
Spring Nuts & Hardware  
Clamps & Pipe Supports  
Seismic  
Galvanizing Compound  
Roofing Supports  
Erectastep  
Sign Posts  
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Index



## MDS38 & MDS12 - DROP-IN INSERT



Part No.	Size	Drill Bit Diameter	Allowable Tension Load 3000 psi Concrete	Pull-Out 3000 psi Concrete
MDS38	3/8" - 16	1/2"	795 Lbs	4,400 Lbs
MDS12	1/2" - 13	5/8"	1,178 Lbs	7,040 Lbs

\* zinc plated steel

Materials & Finishes: EG, SS

## WEDGE ANCHOR



Part No.	Size
1/4 Wedge	1/4"
3/8 Wedge	3/8"
1/2 Wedge	1/2"
5/8 Wedge	5/8"
3/4 Wedge	3/4"
7/8 Wedge	7/8"
1 Wedge	1"
1 1/4 Wedge	1 1/4"

\* zinc plated steel  
Available in Various lengths

Materials & Finishes: EG, SS

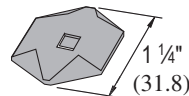
## CSM12 - CHANNEL SOCKET



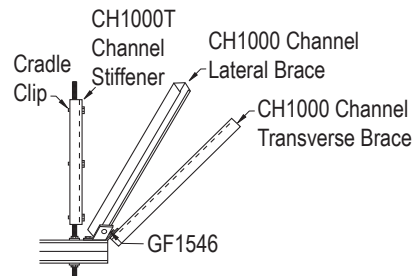
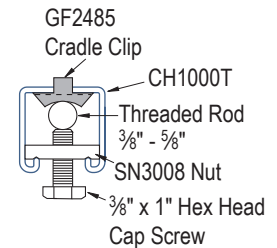
Part Number	Size
CSM12	1/2"

Materials & Finishes: EG

## GF2485 - CRADLE CLIP



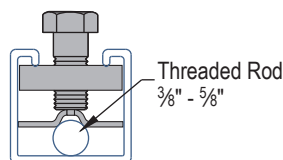
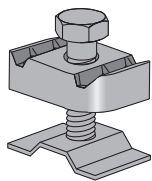
Cradle clip only, order other items separately.



Materials & Finishes: EG

Wt/100 pcs: 3 Lbs

## GF3500 - SEISMIC ROD STIFFENER



Materials & Finishes: EG

Wt/100 pcs: 16 Lbs

Notes:

1. Minimum Tensile Stress is 50,000 psi (345MPa)
2. Working Stress is 10,700 psi (73.9 MPa) – Same as for Tension
3. Compression Will Only Occur During a Seismic Event
4. Compression Requires the Use of Rod Stiffeners
5. KL/r = 200 When Rod Stress is at 35%

Refer to a seismic bracing systems catalog for more information.

Rod Size In (mm)	Root Area In <sup>2</sup> (mm <sup>2</sup> )	Radius of Gyration In (mm)	Design Load Lbs (kN)	Rod Stiffener Clip Spacing (L)			
				Rod Stress @100% 10,700 PSI In (mm)	Rod Stress @75% 8,025 PSI In (mm)	Rod Stress @50% 5,350 PSI In (mm)	Rod Stress @35% 3,745 PSI In (mm)
3/8	0.068	0.074	730	9	11	13	15
9.5	49.5	1.99	3.25	228.6	279.4	330.2	381.0
1/2	0.126	0.100	1,350	12	14	17	21
12.7	72.4	2.40	6.01	304.8	355.6	431.8	533.4
5/8	0.202	0.127	2,160	15	18	22	26
15.9	138.3	3.32	9.61	381.0	457.2	558.8	660.4

## QD14 THRU QD12 – Q-DECK HANGER

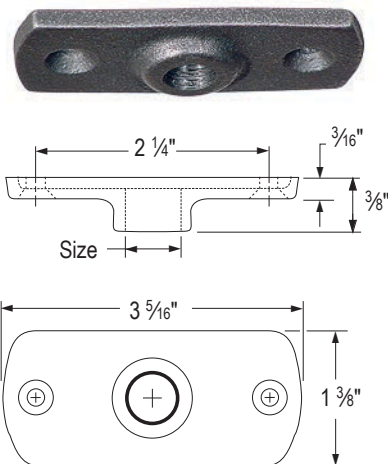
The fastest, most economical way to hang plumbing pipe, light fixtures, sheet metal duct, display fixtures, and more from a Q-Deck. The Q-Deck Hanger eliminates unsightly holes chiseled or punched in the side of the Q-Deck, weakening the deck. With the Q-Deck Hanger, you can keep damage to roof insulation to a minimum.



Part Number	Hole Size	Width	Number of Bottom Side Holes	Lab Pull-Test Top	Lab Pull-Test Bottom	Recommended Load Lbs 5-1 Safety	
						Top	Bottom
QD14	1/4"	3/4" Wide	2	1,570 lbs	1,130 lbs	314	226
QD38	3/8"	3/4" Wide	2	1,570 lbs	1,130 lbs	314	226
QD12	1/2"	1 1/2" Wide	4	-	-	-	-

Materials & Finishes: AL

## CF14 THRU CF12 – MALLEABLE CEILING FLANGES



Part Number	Size	Anchor Test (lbs)	Recommended Load 5-1 Safety
CF14	1/4"	2,500	500
CF38	3/8"	3,000	600
CF12	1/2"	3,000	600

Materials & Finishes: EG

## UPI14 THRU UPI12 – PRESET INSERT

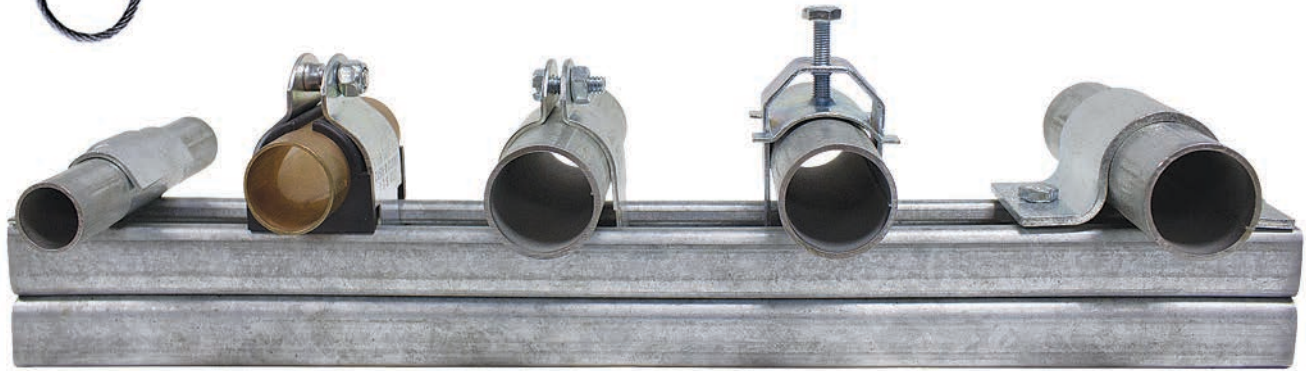


Part No.	Size	Lab Pull-Test	Recommended Load 5-1 Safety
UPI14	1/4"	2,800	560 Lbs
UPI38	3/8"	4,300	860 Lbs
UPI12	1/2"	4,800	960 Lbs

Materials & Finishes: Plastic



Pipe/Conduit Clamps.....	76 - 78
Pipe Straps.....	79
Isolation Material.....	79
Cushioned Clamps.....	80 - 81
Hi-Voltage Clamps.....	82 - 85
Riser Clamps.....	86
Pipe Hangers.....	87 - 89
Grippler Hangers.....	90



## MATERIALS & FINISHES

Consult UBS for ordering information.  
 Pipe supports are available in:  
**ELECTRO-GALVANIZED (EG)**  
**HOT-DIPPED GALVANIZED (HG),**  
**STAINLESS STEEL (SS)**

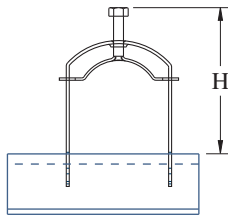
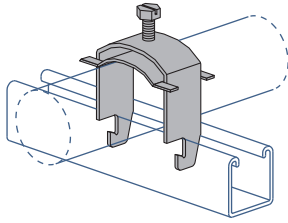
## DIMENSIONS

Imperial dimensions are illustrated in inches. Metric dimensions are shown in parenthesis or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.

## DESIGN LOAD

Design load data, where shown, is based on the ultimate strength of the connection with a safety factor of 5.0, unless otherwise noted.

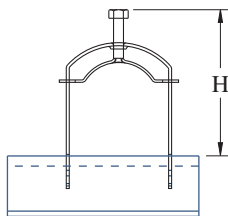
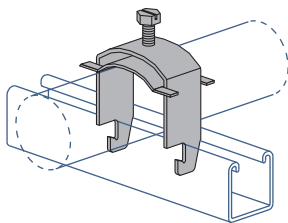
## SC025 THRU SC400 – SADDLE CLAMPS - ONE PIECE



Part No.	Nominal Trade Size In (mm)	Trade Size O.D.		Height Above Channel "H"	
		Min In (mm)	Max In (mm)	Min In (mm)	Max In (mm)
SC025	¼ 6.4	0.375 9.5	0.5 13.7	1¼ 44.5	2 50.8
SC037	⅜ 9.5	0.5 12.7	0.7 17.1	1½ 47.6	2½ 54.0
SC050	½ 12.7	0.63 15.9	0.84 21.3	2 50.8	2¼ 57.2
SC075	¾ 19.1	0.88 22.2	1.05 26.7	2¼ 57.2	2½ 63.5
SC100	1 25.4	1.13 28.6	1.32 33.4	2¾ 60.3	2¾ 69.9
SC125	1¼ 31.8	1.38 34.9	1.66 42.2	2¾ 69.9	3½ 79.4
SC150	1½ 38.1	1.63 41.3	1.90 48.3	3 76.2	3½ 85.7
SC200	2 50.8	2.13 54.0	2.38 60.3	3¾ 85.7	3¾ 98.4
SC250	2½ 63.5	2.63 66.7	2.88 73.0	4¼ 108.0	4¾ 117.5
SC300	3 76.2	3.13 79.4	3.50 88.9	4¾ 123.8	5½ 136.5
SC350	3½ 88.9	3.63 92.1	4.00 101.6	5¼ 133.4	5¾ 149.2
SC400	4 101.6	4.13 104.8	4.50 114.3	5¾ 146.1	6¾ 161.9

Materials & Finishes: EG

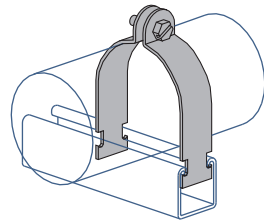
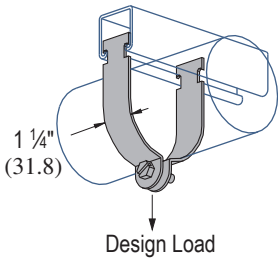
## SC055 SS THRU SC475 SS – SADDLE CLAMPS - ONE PIECE STAINLESS



Part No.	O.D. Range In (mm)	Gauge	Wt/100 pcs Lbs
SC055 SS	0.050 - 0.550 1.3 - 14.0	16 GA.	8
SC081 SS	0.250 - 0.840 6.4 - 21.3	16 GA.	9
SC110 SS	0.810 - 1.100 20.6 - 28.0	16 GA.	12
SC135 SS	0.850 - 1.350 21.6 - 34.3	14 GA.	14
SC175 SS	1.250 - 1.750 31.8 - 44.5	14 GA.	21
SC205 SS	1.550 - 2.050 39.4 - 52.1	12 GA.	30
SC250 SS	2.000 - 2.500 50.8 - 63.5	12 GA.	35
SC300 SS	2.500 - 3.000 63.5 - 76.2	12 GA.	39
SC325 SS	2.750 - 3.250 69.9 - 82.6	12 GA.	41
SC375 SS	3.250 - 3.750 82.6 - 95.3	12 GA.	47
SC425 SS	3.750 - 4.250 95.3 - 108.0	12 GA.	54
SC475 SS	4.250 - 4.750 108.0 - 120.7	12 GA.	58

Materials & Finishes: SS

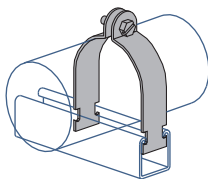
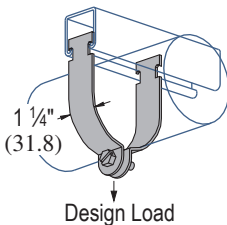
## PC1109 THRU PC1126 – 2 PIECE PIPE CLAMPS FOR RIGID STEEL CONDUIT



Part No.	Conduit Size In	O.D. Size In (mm)	Thickness Gauge (mm)	Wt/100 pcs Lbs	Design Load Lbs
PC1109	3/8	0.675 17.1	16 1.5	10	400
PC1111	1/2	0.840 21.3	16 1.5	11	400
PC1112	3/4	1.050 26.7	14 1.9	15	600
PC1113	1	1.315 33.4	14 1.9	17	600
PC1114	1 1/4	1.660 42.2	14 1.9	19	600
PC1115	1 1/2	1.900 48.3	12 2.7	29	800
PC1117	2	2.375 60.3	12 2.7	34	800
PC1118	2 1/2	2.875 73.0	12 2.7	40	800
PC1119	3	3.500 88.9	12 2.7	47	800
PC1120	3 1/2	4.000 101.6	11 3.0	62	1,000
PC1121	4	4.500 114.3	11 3.0	67	1,000
PC1123	5	5.563 141.3	11 3.0	80	1,000
PC1124	6	6.625 168.3	10 3.4	102	1,000
PC1126	8	8.625 219.1	10 3.4	130	1,000

Materials & Finishes: AL, EG, SS

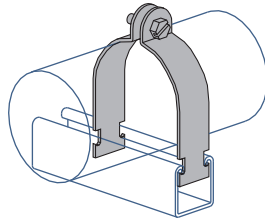
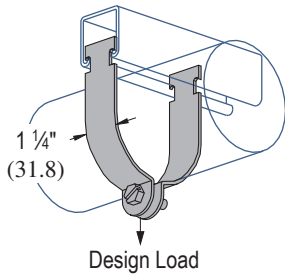
## PC1425 THRU PC1431 – 2 PIECE PIPE CLAMPS FOR THIN WALL CONDUIT (EMT)



Part No.	Conduit Size In (mm)	O.D. Size In (mm)	Thickness Gauge (mm)	Wt/100 pcs Lbs	Design Load Lbs
PC1425	3/8 9.5	0.577 14.7	16 1.5	9	400
PC1426	1/2 12.7	0.706 17.9	16 1.5	11	400
PC1427	3/4 19.1	0.922 23.4	16 1.5	12	400
PC1428	1 25.4	1.163 29.5	14 1.9	15	600
PC1429	1 1/4 31.8	1.510 38.4	14 1.9	18	600
PC1430	1 1/2 38.1	1.740 44.2	12 2.7	29	800
PC1431	2 50.8	2.197 55.8	12 2.7	33	800

Materials & Finishes: EG

## PC2024 THRU PC2070-84 - 2 PIECE PIPE CLAMPS FOR OD TUBING



PC2024 - PC2029 16 ga.  
 PC2030 - PC2035 14 ga.  
 PC2037 - PC2052 12 ga.  
 PC2053 - PC2066 11 ga.  
 PC2067 - PC2070-84 10 ga.

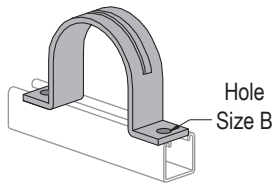
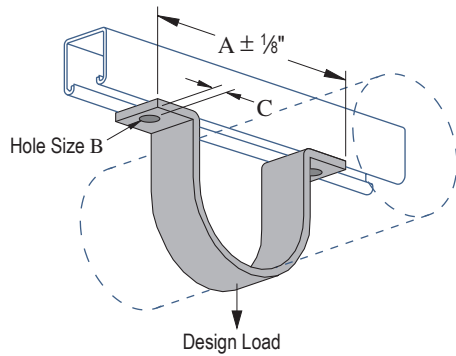
Part Number	O.D. Size In (mm)	Wt/100 pcs Lbs	Design Load Lbs
PC2024	1/4 6.4	8	400
PC2025	3/8 9.5	8	
PC2026	1/2 12.7	9	
PC2027	5/8 15.9	10	
PC2028	3/4 19.1	11	
PC2029	7/8 22.2	12	
PC2030	1 25.4	14	600
PC2031	1 1/8 28.6	15	
PC2032	1 1/4 31.8	16	
PC2033	1 3/8 34.9	17	
PC2034	1 1/2 38.1	18	
PC2035	1 5/8 41.3	19	800
PC2037	1 7/8 47.6	28	
PC2038	2 50.8	31	
PC2039	2 1/8 54.0	32	
PC2040	2 1/4 57.2	33	
PC2042	2 1/2 63.5	35	
PC2043	2 5/8 66.7	37	
PC2044	2 3/4 69.9	38	
PC2046	3 76.2	41	

Part Number	O.D. Size In (mm)	Wt/100 pcs Lbs	Design Load Lbs
PC2047	3 1/8 79.4	43	800 (cont.)
PC2048	3 1/4 82.6	45	
PC2049	3 3/8 85.7	46	
PC2051	3 5/8 92.1	56	1000
PC2052	3 3/4 95.3	58	
PC2053	3 7/8 98.4	60	
PC2055	4 1/8 104.8	62	
PC2056	4 1/4 108.0	64	
PC2057	4 3/8 111.1	66	
PC2059	4 5/8 117.5	70	
PC2060	4 3/4 120.7	72	
PC2061	4 7/8 123.8	73	
PC2062	5 127.0	74	
PC2063	5 1/8 130.2	76	
PC2064	5 1/4 133.4	77	
PC2065	5 3/8 136.5	78	
PC2066	5 1/2 140.0	79	
PC2067	5 5/8 142.9	88	
PC2068	5 3/4 146.1	90	
PC2069	5 7/8 149.2	92	

Part Number	O.D. Size In (mm)	Wt/100 pcs Lbs	Design Load Lbs
PC2070	6 152.4	94	1000 (cont.)
PC2070-61	6 1/8 155.6	96	
PC2070-62	6 1/4 158.8	98	
PC2070-63	6 3/8 161.9	99	
PC2070-64	6 1/2 165.1	100	
PC2070-66	6 3/4 171.5	104	
PC2070-67	6 7/8 174.6	106	
PC2070-70	7 177.8	108	
PC2070-71	7 1/8 181.0	110	
PC2070-72	7 1/4 184.2	112	
PC2070-73	7 3/8 187.3	114	
PC2070-74	7 1/2 190.5	116	
PC2070-75	7 5/8 193.7	117	
PC2070-76	7 3/4 196.9	119	
PC2070-77	7 7/8 200.0	121	
PC2070-80	8 203.2	123	
PC2070-81	8 1/8 206.4	125	
PC2070-82	8 1/4 209.6	126	
PC2070-83	8 3/8 212.7	128	
PC2070-84	8 1/2 215.9	129	

Materials & Finishes: EG

## PC2558-05 THRU PC2558-60 – SINGLE PIECE PIPE STRAP

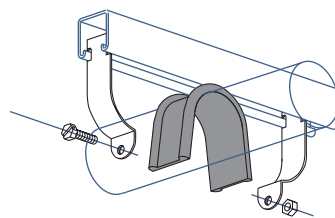
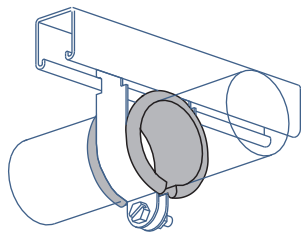


Part Number	Nominal Pipe Size In	A In (mm)	"B" In (mm)	C In (mm)	Thickness In (mm)	Wt/100 pcs Lbs	Design Load Lbs
PC2558-05	1/2	2 7/8 73.0	3/8 7.1	7/16 11.1	1/8 3.2	23	500
PC2558-07	3/4	3 1/8 79.4				26	
PC2558-10	1	3 3/8 85.7				31	
PC2558-12	1 1/4	3 3/4 95.3				35	
PC2558-15	1 1/2	3 7/8 98.4				39	
PC2558-20	2	5 3/4 146.1	7/16 11.1	1 1/16 17.5	1/4 6.4	94	1,000
PC2558-25	2 1/2	6 1/4 158.8				114	
PC2558-30	3	6 7/8 174.6				133	
PC2558-35	3 1/2	7 3/8 187.3				152	
PC2558-40	4	7 7/8 200.0				176	
PC2558-50	5	9 228.6				198	
PC2558-60	6	10 254.0				225	

Hardware sold separately.

Materials & Finishes: EG

## GF2600 – ISOLATION MATERIAL

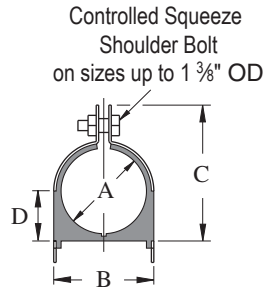
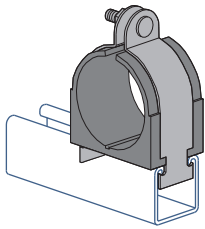


### FEATURES

- 25 feet per carton.
- Shock absorption
- Protection from corrosion and abrasion
- Allowance for expansion & contraction in pipe diameter
- Sound and vibration isolation
- Stability in use from - 50°F to 350°F (-47°C 177°C)
- Flexible elastomer material
- Will not support combustion

## THE ISO CLAMP

## CCT025 THRU CCT412 – TUBE CUSHIONED CLAMPS



Other sizes available by request

- Cushion material is a thermoplastic elastomer rated from -65°F to 248°F (-53°C to 120°C).
- Resist most fuels, oils, gases, greases, solvents, mineral acids and other harsh materials.
- Allow fluid conductors to be added or removed from installations without disturbing adjacent lines.
- Permit various size lines to be mixed to suit installation.
- Available in 304 and 316 stainless steel. Aluminum offered for special orders.

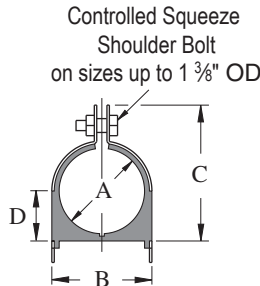
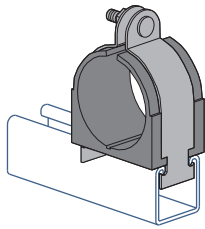
Part Number	Copper & Steel Tube O. D. Size	Copper Water Pipe (Nominal)	Dimensions				Wt/100 pcs Lbs
			"A" In(mm)	"B" In(mm)	"C" In(mm)	"D" In(mm)	
CCT025	¼"	-	0.25 6.4	0.62 15.7	0.98 24.9	0.27 6.9	10
CCT037	⅜"	¼"	0.37 9.4	0.82 20.8	1.13 28.7	0.33 8.4	11
CCT050	½"	⅜"	0.5 12.7	0.94 23.9	1.34 34.0	0.4 10.2	13
CCT062	⅝"	½"	0.62 15.7	1.06 26.9	1.54 39.1	0.46 11.7	14
CCT075	¾"	⅝"	0.75 19.1	1.2 30.5	1.68 42.7	0.52 13.2	14
CCT087	⅞"	¾"	0.87 22.1	1.31 33.3	1.82 46.2	0.58 14.7	15
CCT100	1"	-	1.00 25.4	1.44 36.6	1.95 49.6	0.65 16.6	17
CCT112	1 ⅛"	1"	1.12 28.4	1.57 39.9	2.08 52.8	0.7 17.8	18
CCT125	1 ¼"	-	1.25 31.8	1.70 43.2	2.21 56.1	0.77 19.6	18
CCT137	1 ⅜"	1 ¼"	1.37 34.8	1.82 46.2	2.34 59.4	0.83 21.1	20
CCT150	1 ½"	-	1.50 38.1	1.95 49.6	2.47 62.7	0.90 22.9	33
CCT162	1 ⅝"	1 ½"	1.62 41.1	2.07 52.6	2.6 66.0	0.96 24.4	35
CCT175	1 ¾"	-	1.75 44.5	2.2 55.9	2.73 69.3	1.02 25.9	37
CCT187	1 ⅞"	-	1.9 48.3	2.35 59.7	2.86 72.6	1.09 27.7	39
CCT200	2"	-	2.00 50.8	2.45 62.2	3.04 77.2	1.15 29.2	41
CCT212	2 ⅛"	2"	2.12 53.8	2.57 65.3	3.23 82.0	1.27 32.3	46
CCT237	2 ⅜"	-	2.37 60.2	2.82 71.6	3.67 93.2	1.41 35.8	47
CCT250	2 ½"	-	2.5 63.5	2.94 74.7	3.79 96.3	1.46 37.1	49
CCT262	2 ⅝"	2 ½"	2.62 66.5	3.1 78.0	3.92 99.6	1.53 38.9	51
CCT300	3"	-	3.00 76.2	3.57 90.7	4.42 112.3	1.78 45.2	57
CCT312	3 ⅛"	3"	3.12 79.2	3.6 90.7	4.42 112.3	1.78 45.2	60
CCT362	3 ⅝"	3 ½"	3.62 91.9	4.2 106.7	4.99 126.7	2.03 51.6	70
CCT412	4 ⅛"	4"	4.12 104.6	4.6 116.1	5.54 140.7	2.34 59.4	94

Materials & Finishes: EG, SS



## THE ISO CLAMP

## CCP025 THRU CCP600 – PIPE CUSHIONED CLAMPS



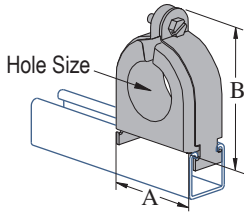
Other sizes available by request

- Cushion material is a thermoplastic elastomer rated from -65°F to 248°F (-53°C to 120°C).
- Resist most fuels, oils, gases, greases, solvents, mineral acids and other harsh materials.
- Allow fluid conductors to be added or removed from installations without disturbing adjacent lines.
- Permit various size lines to be mixed to suit installation.
- Available in 304 and 316 stainless steel. Aluminum offered for special orders.

Part Number	Nominal Pipe Size In	Dimensions				Wt/100 pcs Lbs
		"A" In(mm)	"B" In(mm)	"C" In(mm)	"D" In(mm)	
CCP025	1/4"	0.54 13.7	0.98 24.9	1.34 34.0	0.43 10.9	13
CCP037	3/8"	0.67 17.0	1.13 28.7	1.54 39.1	0.49 12.4	14
CCP050	1/2"	0.84 21.3	1.29 32.8	1.82 46.2	0.58 14.7	15
CCP075	3/4"	1.05 26.7	1.50 38.1	1.95 49.5	0.70 17.8	17
CCP100	1"	1.31 33.3	1.76 44.7	2.34 59.4	0.81 20.6	19
CCP125	1 1/4"	1.66 42.2	2.17 55.1	2.73 69.3	0.99 25.1	35
CCP150	1 1/2"	1.90 48.3	2.35 59.7	2.86 72.6	1.09 27.7	39
CCP200	2"	2.37 60.2	2.82 71.6	3.67 93.2	1.41 35.8	49
CCP250	2 1/2"	2.87 72.9	3.32 84.3	4.17 105.9	1.66 42.2	57
CCP300	3"	3.50 88.9	3.95 100.3	4.79 121.7	1.97 50.0	55
CCP400	4"	4.50 114.3	4.95 125.7	5.92 150.4	2.53 64.3	110
CCP600	6"	6.62 168.1	7.07 179.6	8.23 209.0	3.59 91.2	140

Materials & Finishes: EG, SS

## HV006CC018Z THRU HV072CC080Z – HI-VOLTAGE CLAMP™



Patents Pending

Strap Material: Electro-galvanized Steel (EG) or Stainless Steel (SS)

Use With: All 1 1/2" channel

Replaces Porcelain and Maple Cable Clamp.

- Non-Breakable TPE Material.
- U.V. Resistant.
- U.L. Listed.
- Optional Stainless Steel Clamps.
- Tapered Flange to Protect Cable.
- Dielectric Strength 640 Volts Per Mil.
- One Piece Insulator.
- Replaces Porcelain & Maple Cable Clamp.
- For use in accordance with National Electrical Code ANSI/NFPA 70.
- Includes Pipe Strap.
- Temperature Rating -50°F to +275°F (-45°C to +135°C)

Part Number	Hole Size In (mm)	"A" In (mm)	"R" In (mm)	"B" In (mm)	Wt/100 pcs Lbs
HV006CC018Z	3/8 9.5	1.12 28.5	0.56 14.2	1.82 46.2	25
HV008CC018Z	1/2 12.7				
HV010CC018Z	5/8 15.9				
HV012CC026Z	3/4 19.1	1.62 41.1	0.81 20.6	2.34 59.4	37
HV014CC026Z	7/8 22.2				
HV016CC026Z	1 25.4				
HV018CC026Z	1-1/8 28.6	2.12 53.8	1.06 26.9	2.86 72.6	58
HV020CC034Z	1-1/4 31.8				
HV022CC034Z	1-3/8 34.9				
HV024CC034Z	1-1/2 38.1	2.62 66.5	1.31 33.2	3.50 88.9	76
HV026CC034Z	1-5/8 41.3				
HV028CC042Z	1-3/4 44.5				
HV030CC042Z	1-7/8 47.6	3.12 79.2	1.56 39.6	4.05 102.9	90
HV032CC042Z	2 50.8				
HV034CC042Z	2-1/8 54.0				
HV036CC050Z	2-1/4 57.2	3.12 79.2	1.56 39.6	4.05 102.9	90
HV038CC050Z	2-3/8 60.3				
HV040CC050Z	2-1/2 63.5				
HV042CC050Z	2-5/8 66.7				

Part Number	Hole Size In (mm)	"A" In (mm)	"R" In (mm)	"B" In (mm)	Wt/100 pcs Lbs
HV044CC058Z	2-3/4 69.9	3.62 91.9	1.81 46.0	4.75 120.7	109
HV046CC058Z	2-7/8 73.0				
HV048CC058Z	3 76.2				
HV050CC058Z	3-1/8 79.4	4.12 104.6	2.06 52.3	5.125 130.2	130
HV052CC066Z	3-1/4 82.6				
HV054CC066Z	3-3/8 85.7				
HV056CC066Z	3-1/2 88.9	4.62 117.3	2.31 58.7	5.54 140.7	160
HV058CC066Z	3-5/8 92.1				
HV060CC074Z	3-3/4 95.3				
HV062CC074Z	3-7/8 98.4	5.00 127.0	2.50 63.5	5.92 150.4	160
HV064CC074Z	4 101.6				
HV066CC074Z	4-1/8 104.8				
HV068CC080Z	4-1/4 108.0	5.00 127.0	2.50 63.5	5.92 150.4	160
HV070CC080Z	4-3/8 111.1				
HV072CC080Z	4-1/2 114.3				

Materials & Finishes: EG

## ELLIS - EMPEROR STAINLESS STEEL CABLE CLEATS

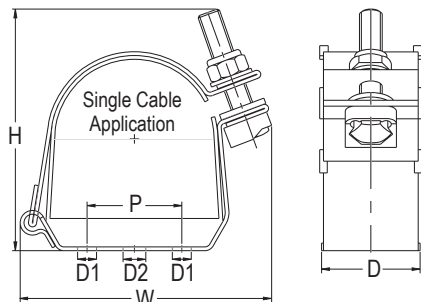
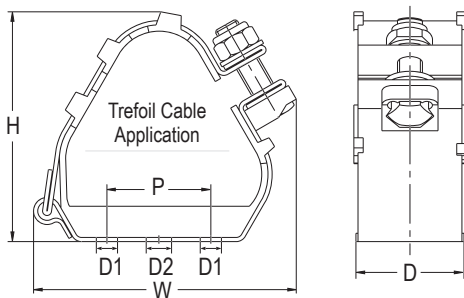


The Emperor range offers the ultimate protection against the harshest conditions, and its unique design means it can be quickly installed. Manufactured in Type 316L stainless steel, Emperor cleats are available in multiple sizes with range-taking capability, to suit trefoil or single cables.

To protect and cushion the cables during short-circuit conditions, the cleat is supplied with an integral Low Smoke and Fume Polymeric liner and base pad.

We recommend that the Emperor is fixed using either two 10mm bolts, or a single 12mm bolt (not supplied but available as extras). Alternative bolt recommendations on request. For a more economical installation, cleats can be spaced more widely, with a retention strap fitted in between.

MAX S/C TEST LEVEL	CLEAT SPACING
156kA	600mm
195kA	300mm
235kA	225mm



Part No.	Cable Range		Dimensions mm					Weight g
	Min Dia. mm	Max Dia. mm	W	H	D	P	Fixing Holes	
<b>SELECTION TABLE FOR TREFOIL CABLE APPLICATION</b>								
ER19-23	19	23	96	83	54	25	2 x M10 + 1 x M12	425
ER23-28	23	28	96	83	54	25	2 x M10 + 1 x M12	425
ER27-32	27	32	97	88	54	25	2 x M10 + 1 x M12	440
ER30-35	30	35	99	91	54	25	2 x M10 + 1 x M12	445
ER33-38	33	38	103	95	54	25	2 x M10 + 1 x M12	460
ER36-42	36	42	124	100	54	50	2 x M10 + 1 x M12	600
ER40-46	40	46	125	106	54	50	2 x M10 + 1 x M12	605
ER44-50	44	50	130	117	54	50	2 x M10 + 1 x M12	630
ER48-55	48	55	132	121	54	50	2 x M10 + 1 x M12	640
ER51-58	51	58	136	128	54	50	2 x M10 + 1 x M12	650
ER55-62	55	62	160	135	54	75	2 x M10 + 1 x M12	810
ER59-66	59	66	163	143	54	75	2 x M10 + 1 x M12	825
ER63-70	63	70	166	151	54	75	2 x M10 + 1 x M12	850
ER67-74	67	74	169	158	54	75	2 x M10 + 1 x M12	850
ER71-78	71	78	172	165	54	75	2 x M10 + 1 x M12	890
ER74-82	74	82	177	171	54	75	2 x M10 + 1 x M12	890
ER77-85	77	85	183	177	54	75	2 x M10 + 1 x M12	905
ER82-88	82	88	191	187	54	75	2 x M10 + 1 x M12	820
ER88-96	88	96	207	203	54	75	2 x M10 + 1 x M12	890
ER96-103	96	103	221	218	54	75	2 x M10 + 1 x M12	940
ER103-111	103	111	237	235	54	75	2 x M10 + 1 x M12	950
ER111-119	111	119	253	250	54	75	2 x M10 + 1 x M12	1010
ER119-128	119	128	265	275	54	75	2 x M10 + 1 x M12	1220
<b>SELECTION TABLE FOR SINGLE CABLE APPLICATION</b>								
ES32-39	32	39	91	89	54	25	2 x M10 + 1 x M12	450
ES37-45	37	45	96	93	54	25	2 x M10 + 1 x M12	470
ES44-52	44	52	99	98	54	25	2 x M10 + 1 x M12	480
ES51-59	51	59	103	102	54	25	2 x M10 + 1 x M12	490
ES58-66	58	66	109	101	54	25	2 x M10 + 1 x M12	500
ES65-73	65	73	111	103	54	25	2 x M10 + 1 x M12	510
ES73-85	73	85	135	112	54	50	2 x M10 + 1 x M12	640
ES84-94	84	94	135	135	54	50	2 x M10 + 1 x M12	660
ES94-118	94	118	160	150	54	50	2 x M10 + 1 x M12	710
ES118-130	118	130	175	160	54	75	2 x M10 + 1 x M12	900
ES127-150	127	150	180	180	54	75	2 x M10 + 1 x M12	940

Materials & Finishes: SS (316L)

## ELLIS - VULCAN STAINLESS STEEL CABLE CLEATS



Our Vulcan+ cleats have a unique compact design so they can be easily installed, even when space is limited. Vulcan+ cleats are available in multiple sizes with range-taking capability, to suit trefoil, single, quad or bundled cables.

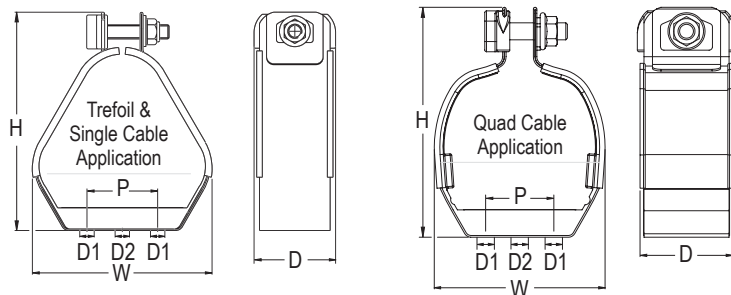
Manufactured in Type 316L stainless steel, Vulcan+ offer excellent protection against the harshest environmental conditions. To protect and cushion the cables during short-circuit conditions, the cleat comes with an integral Low Smoke and Fume Zero Halogen Polymeric liner and base pad.

We recommend fixing VRT+ using one 10mm bolt for sizes 00 to 09, and one or two 10mm bolts for sizes 10 to 20. For VRQ+ use one 10mm bolt for sizes 01 to 06, and one or two 10mm bolts for sizes 07 to 09 (not supplied but available as extras). Alternative bolt recommendations on request. For a more economical installation, cleats can be spaced more widely, with a retention strap fitted in between.

MAX S/C TEST LEVEL	CLEAT SPACING
104kA	600mm
132kA	300mm



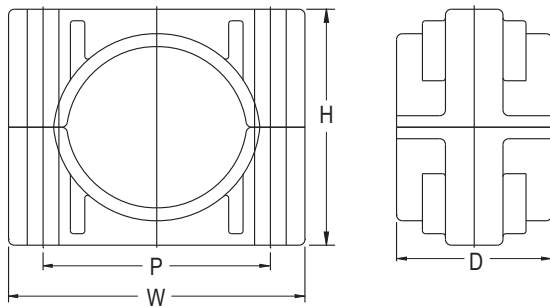
SELECTION TABLE FOR TREFOIL AND SINGLE CABLE APPLICATION										
Part No.	Trefoil Cable Range		Single Cable Range		Dimensions					Weight g
	Min Dia. mm	Max Dia. mm	Min Dia. mm	Max Dia. mm	W	H	D	P	Fixing Holes	
VRT+00	19	24	30	42	60	93	54	n/a	1 x M10	251
VRT+01	23	28	38	50	63	98	54	n/a	1 x M10	258
VRT+02	27	32	43	58	72	106	54	n/a	1 x M10	269
VRT+03	30	35	49	64	79	112	54	n/a	1 x M10	279
VRT+04	33	38	55	70	85	118	54	n/a	1 x M10	284
VRT+05	36	42	58	75	96	125	54	n/a	1 x M10	319
VRT+06	40	46	63	84	105	133	54	n/a	1 x M10	331
VRT+07	44	50	73	90	112	140	54	n/a	1 x M10	391
VRT+08	48	55	83	100	121	149	54	n/a	1 x M10	405
VRT+09	51	58	86	104	126	154	54	n/a	1 x M10	411
VRT+10	55	62	88	110	134	162	54	50	3 x M10	442
VRT+11	59	66	90	115	143	170	54	50	3 x M10	453
VRT+12	63	70	100	125	152	177	54	50	3 x M10	460
VRT+13	67	74	107	132	161	185	54	75	3 x M10	524
VRT+14	71	78	120	145	169	192	54	75	3 x M10	536
VRT+15	74	82	125	150	176	199	54	75	3 x M10	542
VRT+16	77	85	132	153	183	205	54	75	3 x M10	544
VRT+17	81	89	136	156	190	216	54	75	3 x M10	618
VRT+18	85	93	139	159	200	225	54	75	3 x M10	628
VRT+19	89	97	142	162	200	235	54	75	3 x M10	637
VRT+20	93	101	150	170	215	240	54	75	3 x M10	646



SELECTION TABLE FOR QUAD CABLE APPLICATION								
Part No.	Cable Range		Dimensions mm					Weight g
	Min Dia. mm	Max Dia. mm	W	H	D	P	Fixing Holes	
VRQ+01	23	25	68	110	54	n/a	1 x M10	284
VRQ+02	26	27	70	113	54	n/a	1 x M10	286
VRQ+03	28	31	78	128	54	n/a	1 x M10	318
VRQ+3A	31	35	90	138	54	n/a	1 x M10	350
VRQ+04	35	42	103	148	54	n/a	1 x M10	378
VRQ+05	43	47	120	165	54	n/a	1 x M10	452
VRQ+06	48	50	121	170	54	n/a	1 x M10	467
VRQ+07	51	57	140	190	54	50	3 x M10	486
VRQ+08	58	63	150	200	54	50	3 x M10	499
VRQ+09	64	70	170	218	54	75	3 x M10	581

Materials & Finishes: SS (316L)

## ELLIS - 2 HOLE CABLE CLAMP



Manufactured as standard in Black Polypropylene (B) or Black Flame Retardant VO Zero Halogen Phosphorus-Free UV Stabilised Nylon (LSF) or to special order in a London Underground Approved Material (LUL).

Used to fix power cables in indoor and outdoor applications.

Two hole cable clamps can be supplied with a neoprene liner on request ('L' should be added as a suffix to the part number).

Neoprene liners vary in width and thickness according to the clamp they are designed for. All liners have sidewall up-stands for secure location within the clamp.

Manufactured from Neoprene the liners are rated VO and have a carefully selected hardness to enable them to accommodate a cable's diametric thermal expansion.

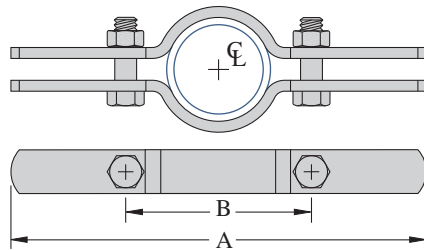
MAX S/C TEST LEVEL (Multi-core Cable) 76kA  
CLEAT SPACING 600mm

TWO HOLE CABLECLAMP													
Part No.	Material Suffix	Cable Range Dia. mm	Liner Thickness	Range Take with Liner	Dimensions mm				Fixing Holes	Pack Qty	Weight g		
					W	H	D	P			B	LSF	LUL
2F+07	B/LSF/LUL	38-46	3	32-40	92	60	54	68	2 x M10	25	73.0	91.0	119.0
2F+08	B/LSF/LUL	46-51	3	40-45	103	71	54	79	2 x M10	25	80.9	109.9	132.0
2F+09	B/LSF/LUL	51-57	3	45-51	103	76	54	79	2 x M10	25	95.0	119.0	155.0
2F+10	B/LSF/LUL	57-64	3	51-58	103	82	54	79	2 x M10	25	89.1	122.5	156.5
2F+11	B/LSF/LUL	64-70	3	58-64	130	89	54	106	2 x M10	10	116.0	157.3	189.0
2F+1200	B/LSF/LUL	70-76	4	62-68	128	95	75	104	2 x M12	10	160.1	190.0	285.0
2F+1201	B/LSF/LUL	76-83	4	68-75	135	100	75	111	2 x M12	10	174.0	206.5	309.8
2F+1202	B/LSF/LUL	83-90	4	75-82	143	108	75	119	2 x M12	10	188.3	228.6	342.9
2F+131	B/LSF/LUL	90-97	5	80-87	165	115	100	138	2 x M12	5	335.5	423.0	634.5
2F+132	B/LSF/LUL	97-105	5	87-95	171	122	100	144	2 x M12	5	355.1	440.6	660.9
2F+141	B/LSF/LUL	105-112	5	95-102	178	130	100	151	2 x M12	5	382.4	509.9	764.9
2F+142	B/LSF/LUL	112-120	5	102-110	187	138	125	160	2 x M12	5	495.6	622.0	933.0
2F+151	B/LSF/LUL	120-128	5	110-118	196	148	125	168	2 x M12	5	536.8	715.7	1073.5
2F+152	B/LSF/LUL	128-135	5	118-125	203	158	125	176	2 x M12	5	578.9	771.9	1157.9
2F+161	B/LSF/LUL	135-144	5	125-134	222	168	150	190	2 x M16	5	831.3	1108.4	1662.7
2F+162	B/LSF/LUL	144-152	5	134-142	232	179	150	200	2 x M16	5	902.3	1203.1	1804.6
2F+171	B/LSF/LUL	152-160	5	142-150	242	190	150	210	2 x M16	5	976.2	1301.6	1952.4
2F+172	B/LSF/LUL	160-168	5	150-158	252	201	150	220	2 x M16	5	1052.1	1402.9	2104.3

If liner ordered add 'L' as suffix to Part No. eg: 2F-07BL, 2F-07LSFL and 2F-07LULL.

Materials & Finishes: Black Polypropylene (B) or Black Flame Retardant VO Zero Halogen Phosphorus-Free UV Stabilised Nylon (LSF) or to special order in a London Underground Approved Material (LUL)

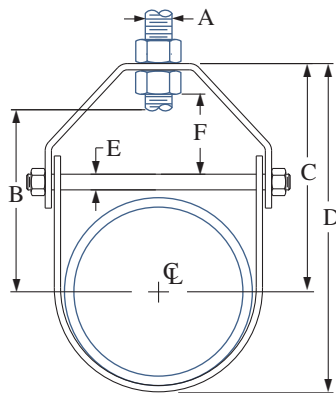
## RC050 THRU RC1200 – RISER CLAMP



Part No.	Iron Pipe Size	Specification Data				Rec. Max. Load (lbs)	App'x Wt. Per 100 (lbs)
		A	B	Bolt Diameter	Material		
RC050	1/2	8 <sup>5</sup> / <sub>8</sub> 219.1	2 <sup>1</sup> / <sub>8</sub> 54.0	3/8 9.5	8 ga x 1	220	88
RC075	3/4	8 <sup>13</sup> / <sub>16</sub> 223.8	2 <sup>5</sup> / <sub>16</sub> 58.7	3/8 9.5	8 ga x 1	220	92
RC100	1	9 <sup>1</sup> / <sub>16</sub> 230.2	2 <sup>5</sup> / <sub>8</sub> 66.7	3/8 9.5	8 ga x 1	220	94
RC125	1 1/4	9 <sup>7</sup> / <sub>16</sub> 239.7	2 <sup>15</sup> / <sub>16</sub> 74.6	3/8 9.5	8 ga x 1	250	100
RC150	1 1/2	10 254.0	3 <sup>7</sup> / <sub>16</sub> 87.3	3/8 9.5	8 ga x 1	250	104
RC200	2	10 <sup>9</sup> / <sub>16</sub> 268.3	4 101.6	3/8 9.5	8 ga x 1	300	114
RC250	2 1/2	11 <sup>1</sup> / <sub>8</sub> 282.6	4 <sup>9</sup> / <sub>16</sub> 115.9	3/8 9.5	3 ga x 1	400	160
RC300	3	11 <sup>13</sup> / <sub>16</sub> 300.0	5 <sup>1</sup> / <sub>4</sub> 133.4	3/8 9.5	3 ga x 1	500	170
RC350	3 1/2	13 330.2	6 152.4	1/2 12.7	3 ga x 1	600	206
RC400	4	13 <sup>5</sup> / <sub>8</sub> 295.3	6 <sup>5</sup> / <sub>8</sub> 168.3	1/2 12.7	3 ga x 1	750	220
RC500	5	14 <sup>1</sup> / <sub>2</sub> 358.8	7 <sup>5</sup> / <sub>8</sub> 163.7	1/2 12.7	3 ga x 1 1/2	1500	340
RC600	6	15 <sup>5</sup> / <sub>8</sub> 390.5	8 <sup>1</sup> / <sub>2</sub> 225.4	1/2 12.7	3 ga x 1 1/2	1600	372
RC800	8	18 <sup>5</sup> / <sub>8</sub> 473.1	12 304.8	5/8 15.9	3/8 x 1 1/2	2500	722
RC1000	10	21 533.4	14 1/2 368.3	5/8 15.9	3/8 x 2	2500	1094
RC1200	12	22 3/4 577.8	17 431.8	5/8 15.9	1/2 x 2	2700	1610

Materials & Finishes: EG

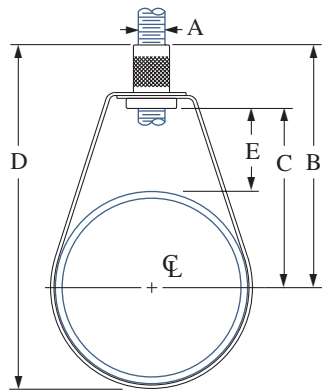
## CL050 THRU CL1200 - CLEVIS HANGER



Part No.	Iron Pipe Size	Specification Data								Rec. Max. Load (lbs)	App'x Wt. Per 100 (lbs)
		A	B	C	D	E	F	Upper	Lower		
CL050	1/2	3/8 9.5	1 1/8 28.6	1 1/16 42.9	2 1/16 52.4	1/4 6.4	7/16 11.1	13 ga x 7/8	13 ga x 7/8	610	18
CL075	3/4	3/8 9.5	1 1/8 28.6	1 1/16 42.9	2 9/16 65.1	1/4 6.4	7/16 11.1	13 ga x 7/8	13 ga x 7/8	610	18
CL100	1	3/8 9.5	1 5/16 33.3	2 1/16 52.4	2 1/16 68.3	1/4 6.4	5/8 15.9	13 ga x 7/8	13 ga x 7/8	610	22
CL125	1 1/4	3/8 9.5	1 5/8 41.3	2 1/2 63.5	3 3/16 81.0	1/4 6.4	7/8 22.2	13 ga x 7/8	13 ga x 7/8	610	26
CL150	1 1/2	3/8 9.5	1 7/8 47.6	2 7/8 73.0	3 11/16 93.7	1/4 6.4	1 1/16 27.0	13 ga x 7/8	12 ga x 7/8	610	34
CL200	2	3/8 9.5	2 1/4 57.2	3 15/16 100.0	4 7/16 112.7	1/4 6.4	1 1/4 31.8	13 ga x 7/8	12 ga x 7/8	610	38
CL250	2 1/2	1/2 12.7	2 7/8 73.0	4 1/2 114.3	5 7/8 149.2	5/16 7.9	1 5/16 33.3	9 ga x 1 3/16	10 ga x 1 3/16	1130	86
CL300	3	1/2 12.7	3 15/16 100.0	4 3/4 120.7	6 1/2 165.1	5/16 7.9	1 3/4 44.5	9 ga x 1 3/16	10 ga x 1 3/16	1130	96
CL350	3 1/2	1/2 12.7	4 1/32 102.4	5 7/8 149.2	7 15/16 201.6	5/16 7.9	2 9/16 65.1	8 ga x 1 3/16	10 ga x 1 3/16	1130	114
CL400	4	5/8 15.9	4 1/8 104.8	5 5/16 150.8	8 3/16 207.9	3/8 9.5	2 1/8 54.0	8 ga x 1 3/16	10 ga x 1 3/16	1430	126
CL500	5	5/8 15.9	4 3/16 106.4	5 11/16 144.5	8 7/16 214.3	1/2 12.7	1 7/16 36.5	4 ga x 1 1/4	8 ga x 1 1/4	1430	204
CL600	6	3/4 19.1	5 1/16 128.6	6 13/16 173.0	10 1/8 257.2	1/2 12.7	1 3/4 44.5	3 ga x 1 1/2	8 ga x 1 1/2	1940	280
CL800	8	3/4 19.1	6 3/16 157.2	8 1/16 204.8	12 7/16 315.9	5/8 15.9	1 7/8 47.6	3 ga x 1 3/4	8 ga x 1 3/4	2000	446
CL1000	10	7/8 22.2	7 3/4 196.9	10 254.0	15 7/16 392.1	3/4 19.1	2 1/4 57.2	3/8 x 1 1/4	3 ga x 1 3/4	3600	806
CL1200	12	7/8 22.2	9 1/32 229.6	11 1/16 293.7	18 457.2	3/4 19.1	2 13/16 71.4	3/8 x 2	8 ga x 2	3800	1034

Materials & Finishes: EG

## RH050 THRU RH800 – RING HANGER

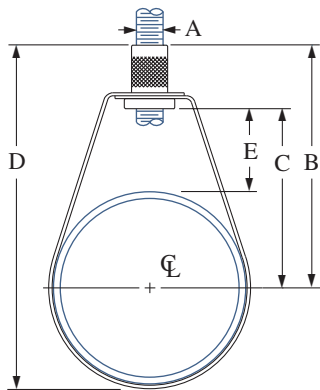


Part No.	Iron Pipe Size	Specification Data					Rec. Max. Load (lbs)	UL - ULC Test Load	App'x Wt. Per 100 (lbs)
		A	B	C	D	E			
RH050	½	¾ 9.5	2 <sup>15</sup> / <sub>16</sub> 74.6	1 <sup>7</sup> / <sub>8</sub> 47.6	3 <sup>3</sup> / <sub>8</sub> 85.7	1 <sup>7</sup> / <sub>16</sub> 36.5	400	750	9
RH075	¾	¾ 9.5	2 <sup>7</sup> / <sub>8</sub> 73.0	1 <sup>7</sup> / <sub>8</sub> 47.6	3 <sup>3</sup> / <sub>8</sub> 85.7	1 <sup>1</sup> / <sub>2</sub> 42.9	400	750	9
RH100	1	¾ 9.5	2 <sup>7</sup> / <sub>8</sub> 73.0	1 <sup>7</sup> / <sub>8</sub> 47.6	3 <sup>1</sup> / <sub>2</sub> 88.9	1 <sup>7</sup> / <sub>32</sub> 309.6	400	750	9
RH125	1 ¼	¾ 9.5	3 <sup>1</sup> / <sub>16</sub> 77.8	1 <sup>15</sup> / <sub>16</sub> 49.2	3 <sup>7</sup> / <sub>8</sub> 98.4	1 <sup>1</sup> / <sub>8</sub> 28.6	400	750	10
RH150	1 ½	¾ 9.5	3 <sup>3</sup> / <sub>16</sub> 81.0	2 <sup>1</sup> / <sub>8</sub> 54.0	4 <sup>1</sup> / <sub>8</sub> 104.8	1 <sup>3</sup> / <sub>16</sub> 30.2	400	750	11
RH200	2	¾ 9.5	3 <sup>7</sup> / <sub>16</sub> 87.3	2 <sup>7</sup> / <sub>16</sub> 61.9	4 <sup>5</sup> / <sub>8</sub> 117.5	1 <sup>1</sup> / <sub>4</sub> 31.8	400	750	12
RH250	2 ½	¾ 9.5	3 <sup>13</sup> / <sub>16</sub> 96.8	2 <sup>3</sup> / <sub>4</sub> 69.9	5 <sup>1</sup> / <sub>4</sub> 133.4	1 <sup>3</sup> / <sub>8</sub> 34.9	600	850	28
RH300	3	¾ 9.5	4 101.6	3 76.2	5 <sup>3</sup> / <sub>4</sub> 146.1	1 <sup>1</sup> / <sub>4</sub> 31.8	600	1050	30
RH400	4	¾ 9.5	4 <sup>3</sup> / <sub>4</sub> 120.7	3 <sup>3</sup> / <sub>4</sub> 95.3	7 177.8	1 <sup>1</sup> / <sub>2</sub> 38.1	1000	1500	37
RH500	5	½ 12.7	6 152.4	4 <sup>3</sup> / <sub>4</sub> 120.7	8 <sup>3</sup> / <sub>4</sub> 222.3	1 <sup>15</sup> / <sub>16</sub> 49.2	1000	2000	83
RH600	6	½ 12.7	6 <sup>9</sup> / <sub>16</sub> 135.9	5 <sup>1</sup> / <sub>4</sub> 133.4	9 <sup>7</sup> / <sub>8</sub> 250.8	1 <sup>15</sup> / <sub>16</sub> 49.2	1250	2650	95
RH800	8	½ 12.7	7 <sup>13</sup> / <sub>16</sub> 198.4	6 <sup>5</sup> / <sub>8</sub> 168.3	12 <sup>1</sup> / <sub>8</sub> 307.9	2 <sup>5</sup> / <sub>16</sub> 58.7	1250	4050	118

Materials & Finishes: EG



## RH050CO THRU RH400CO – RING HANGER, COPPER



Part No.	Copper Pipe Size	Also Accommodates IPS Size	Specification Data					Rec. Max. Load (lbs)	App'x Wt. Per 100 (lbs)
			A	B	C	D	E		
RH050CO	½-¾	½	¾ 9.5	2 <sup>13</sup> / <sub>16</sub> 71.4	1 <sup>15</sup> / <sub>16</sub> 49.2	¾ 82.6	1 <sup>5</sup> / <sub>16</sub> 33.3	400	9
RH100CO	1	¾	¾ 9.5	2 <sup>13</sup> / <sub>16</sub> 71.4	1 <sup>15</sup> / <sub>16</sub> 49.2	¾ 82.6	1 <sup>3</sup> / <sub>8</sub> 34.9	400	9
RH125CO	1¼	1	¾ 9.5	2 <sup>13</sup> / <sub>16</sub> 71.4	1 <sup>15</sup> / <sub>16</sub> 49.2	¾ 87.3	1¼ 31.8	400	9
RH150CO	1½	1¼	¾ 9.5	2 <sup>15</sup> / <sub>16</sub> 74.6	2 <sup>1</sup> / <sub>16</sub> 52.4	¾ 95.3	1 <sup>3</sup> / <sub>16</sub> 30.2	400	10
RH200CO	2	2	¾ 9.5	3 <sup>7</sup> / <sub>16</sub> 87.3	2 <sup>9</sup> / <sub>16</sub> 65.1	4 <sup>9</sup> / <sub>16</sub> 115.9	1 <sup>3</sup> / <sub>8</sub> 34.9	400	12
RH250CO	2½	2½	¾ 9.5	3 <sup>11</sup> / <sub>16</sub> 93.7	2 <sup>13</sup> / <sub>16</sub> 71.4	5 <sup>1</sup> / <sub>16</sub> 128.6	1 <sup>3</sup> / <sub>8</sub> 34.9	650	28
RH300CO	3	3	¾ 9.5	4 101.6	3 <sup>1</sup> / <sub>8</sub> 79.4	3 <sup>5</sup> / <sub>8</sub> 92.1	1 <sup>3</sup> / <sub>8</sub> 34.9	650	30
RH400CO	4	4	¾ 9.5	4 <sup>5</sup> / <sub>8</sub> 117.5	3 <sup>3</sup> / <sub>4</sub> 95.3	6 <sup>7</sup> / <sub>8</sub> 174.6	1½ 38.1	650	37

Materials & Finishes: Copper Colour Epoxy

## GRIPPLE

High speed hanger solutions for Electrical, HVAC, and Mechanical industry. Gripple hangers come in varying weight and type. Complete with a length (5- 30 feet) of ready cut cable with a wide variety of pre-swaged end fittings. Please contact your UBS representative to find the right hanger for your job.

### EYELET HANGERS



90° 1/4" Eyelet Hangers

Part No.	Size	Max. Safe Working Load
HF-SEYE90G-NO2-5FT	No. 2 x 5 ft.	100 lbs
HF-SEYE90G-NO2-10FT	No. 2 x 10 ft.	
HF-SEYE90G-NO2-15FT	No. 2 x 15 ft.	
HF-SEYE90G-NO2-20FT	No. 2 x 20 ft.	
HF-SEYE90G-NO2-30FT	No. 2 x 30 ft.	
HF-SEYE90G-NO3-5FT	No. 3 x 5 ft.	200 lbs
HF-SEYE90G-NO3-10FT	No. 3 x 10 ft.	
HF-SEYE90G-NO3-15FT	No. 3 x 15 ft.	
HF-SEYE90G-NO3-20FT	No. 3 x 20 ft.	
HF-SEYE90G-NO3-30FT	No. 3 x 30 ft.	

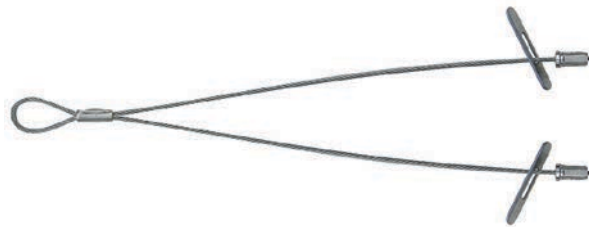
### GRIPPLE - LOOP HANGERS



Loop Hangers

Part No.	Size	Max. Safe Working Load
HF01-5FT	No. 1 x 5 ft.	25 lbs
HF01-10FT	No. 1 x 10 ft.	
HF01-15FT	No. 1 x 15 ft.	
HF01-30FT	No. 1 x 30 ft.	
HF02-5FT	No. 2 x 5 ft.	100 lbs
HF02-10FT	No. 2 x 10 ft.	
HF02-15FT	No. 2 x 15 ft.	
HF02-20FT	No. 2 x 20 ft.	
HF02-30FT	No. 2 x 30 ft.	
HF03-5FT	No. 3 x 5 ft.	200 lbs
HF03-10FT	No. 3 x 10 ft.	
HF03-15FT	No. 3 x 15 ft.	
HF03-20FT	No. 3 x 20 ft.	
HF03-30FT	No. 3 x 30 ft.	
HF04-5FT	No. 4 x 5 ft.	495 lbs
HF04-10FT	No. 4 x 10 ft.	
HF04-15FT	No. 4 x 15 ft.	
HF04-30FT	No. 4 x 30 ft.	
HF05-5FT	No. 5 x 5 ft.	715 lbs
HF05-10FT	No. 5 x 10 ft.	
HF05-15FT	No. 5 x 15 ft.	
HF05-30FT	No. 5 x 30 ft.	

### Y-FIT TOGGLE HANGERS



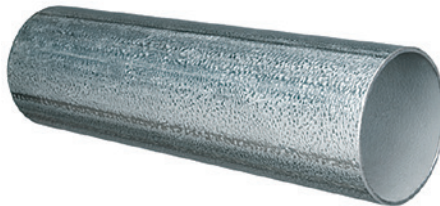
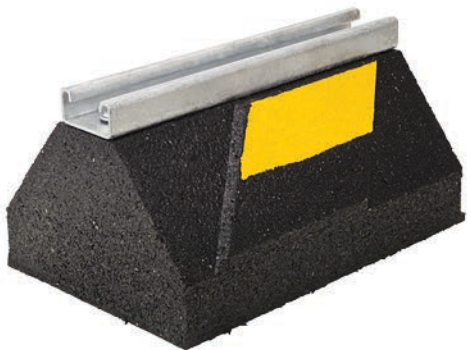
Y-Fit Toggle Hangers - Locate through 5/16" holes

Part No.	Size	Max. Safe Working Load
HF-YTG-NO2-5FT-150MM	No. 2 x 5 ft. x 6" legs	100 lbs
HF-YTG-NO2-5FT-300MM	No. 2 x 5 ft. x 12" legs	
HF-YTG-NO2-5FT-460MM	No. 2 x 5 ft. x 18" legs	
HF-YTG-NO2-10FT-150MM	No. 2 x 10 ft. x 6" legs	100 lbs
HF-YTG-NO2-10FT-300MM	No. 2 x 10 ft. x 12" legs	
HF-YTG-NO2-10FT-460MM	No. 2 x 10 ft. x 18" legs	
HF-YTG-NO2-15FT-150MM	No. 2 x 15 ft. x 6" legs	100 lbs
HF-YTG-NO2-15FT-300MM	No. 2 x 15 ft. x 12" legs	
HF-YTG-NO2-15FT-460MM	No. 2 x 15 ft. x 18" legs	
HF-YTG-NO2-20FT-150MM	No. 2 x 20 ft. x 6" legs	100 lbs
HF-YTG-NO2-20FT-300MM	No. 2 x 20 ft. x 12" legs	
HF-YTG-NO2-20FT-460MM	No. 2 x 20 ft. x 18" legs	
HF-YTG-NO2-30FT-460MM	No. 2 x 30 ft. x 18" legs	100 lbs

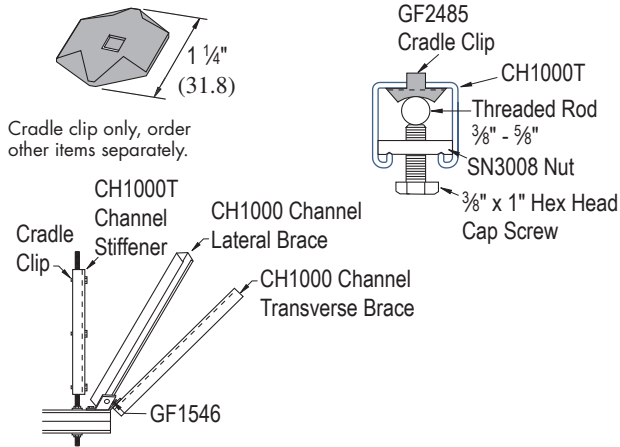


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## GF2485 - CRADLE CLIP

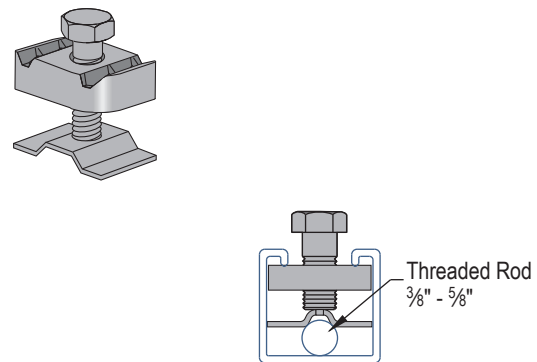


Cradle clip only, order other items separately.

Materials & Finishes: EG

Wt/100 pcs: 3 Lbs

## GF3500 - SEISMIC ROD STIFFENER



Materials & Finishes: EG

Wt/100 pcs: 16 Lbs

### Notes:

1. Minimum Tensile Stress is 50,000 psi (345MPa)
2. Working Stress is 10,700 psi (73.9 MPa) – Same as for Tension
3. Compression Will Only Occur During a Seismic Event
4. Compression Requires the Use of Rod Stiffeners
5.  $KL/r = 200$  When Rod Stress is at 35%

Refer to a seismic bracing systems catalog for more information.

Rod Size In (mm)	Root Area In <sup>2</sup> (mm <sup>2</sup> )	Radius of Gyration In (mm)	Design Load Lbs (kN)	Rod Stiffener Clip Spacing (L)			
				Rod Stress @100% 10,700 PSI In (mm)	Rod Stress @75% 8,025 PSI In (mm)	Rod Stress @50% 5,350 PSI In (mm)	Rod Stress @35% 3,745 PSI In (mm)
3/8	0.068	0.074	730	9	11	13	15
9.5	49.5	1.99	3.25	228.6	279.4	330.2	381.0
1/2	0.126	0.100	1,350	12	14	17	21
12.7	72.4	2.40	6.01	304.8	355.6	431.8	533.4
5/8	0.202	0.127	2,160	15	18	22	26
15.9	138.3	3.32	9.61	381.0	457.2	558.8	660.4

## SRK 1810 - SEISMIC RESTRAINT KIT



- 4 pcs: 10' 1/8" cable with 45 degree fitting attached
- 4 pcs: SRT
- 8 pcs: SRU
- 4pcs: GF1546 EG (45 degree angle fitting)



## SRC 1/8" - SEISMIC CABLE



500' Rolls  
Breaking Strength - minimum 2000 lbs.

## SRC 1/16" - SEISMIC CABLE



1000' Rolls  
Breaking Strength - minimum 480 lbs.

## SRT 1/8" - SEISMIC RESTRAINT THIMBLE



## SRU 1/8" - SEISMIC RESTRAINT U-BOLT



## SRS 1/8" - SEISMIC RESTRAINT SLEEVE



\*to be used with size appropriate crimping tools

## SRS 1/16" - SEISMIC RESTRAINT SLEEVE

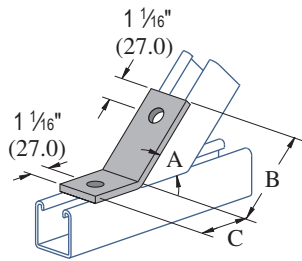


\*to be used with size appropriate crimping tools

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## GF1546 – ANGLE FITTING

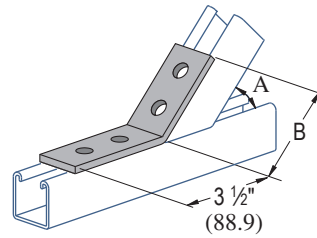


Part No.	"A" Degree (rad)	"B" In (mm)	"C" In (mm)
GF1546	45° 0.79	3 76.2	2 <sup>5</sup> / <sub>16</sub> 58.7

Materials & Finishes: EG, HG, SS

Wt/100 pcs: 58 Lbs

## GF2263, GF2265, & GF2267 ANGLE FITTING

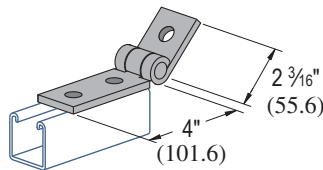


Part Number	"A" Degree (rad)	"B" In (mm)
GF2263	30° 0.52	3 <sup>11</sup> / <sub>16</sub> 93.7
GF2265	45° 0.79	3 <sup>11</sup> / <sub>16</sub> 93.7
GF2267	60° 1.05	3 <sup>11</sup> / <sub>16</sub> 93.7

Materials & Finishes: EG

Wt/100 pcs: 78 Lbs

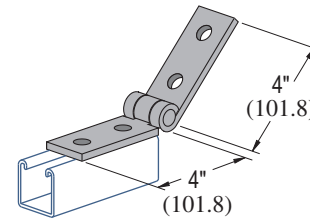
## GF1354A – ADJ. HINGE CONNECTION



Materials & Finishes: EG

Wt/100 pcs: 89 Lbs

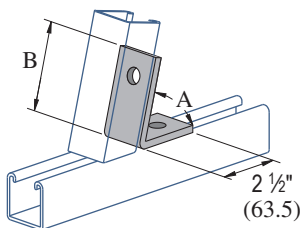
## GF1354 – ADJ. HINGE CONNECTION



Materials & Finishes: EG

Wt/100 pcs: 109 Lbs

## GF1186



Part Number	"A" Degree (rad)	"B" In (mm)
GF1186	45° 0.79	3 <sup>3</sup> / <sub>8</sub> 79.4

\* Other angles available  
- Special order - Minimum quantity may apply

Materials & Finishes: EG

Wt/100 pcs: 58 Lbs

Standard Dimensions for 1<sup>5</sup>/<sub>16</sub>" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9<sup>1</sup>/<sub>16</sub>" (14.3mm); Hole Spacing - From End: 1<sup>3</sup>/<sub>16</sub>" (20.6mm); Hole Spacing - On Center: 1<sup>7</sup>/<sub>8</sub>" (47.6mm); Width: 1<sup>5</sup>/<sub>16</sub>" (41.3mm); Thickness: 1<sup>1</sup>/<sub>4</sub>" (6.4mm)

## ZRC GALVILITE® GALVANIZING REPAIR COMPOUND

### APPLICATIONS:

- Repairing hot-dip galvanizing
- Field applied galvanizing
- Rust proofing welds
- Repairing inorganic zinc
- Regalvanizing of worn hot-dip
- Metal fabrication
- Construction
- Manufacturing/OEM
- Antenna Towers
- Petrochemical Plants
- Roads & Bridges
- Tanks
- Industrial Maintenance
- Water Treatment
- Marine & Offshore
- Cooling Towers
- Hundreds more!

ZRC's Galvilite provides all the corrosion protection you've come to expect from the world's most specified galvanizing repair compound—in a silvery finish that closely matches the color of galvanized metal.

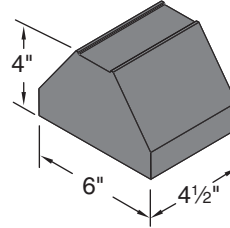
- 95% zinc in the dry film using only Type III "ultra pure" ASTM-D-520 zinc (lead and cadmium free)
- Recognized under the Component Program of Underwriters Laboratories, Inc. as equivalent to hot dip galvanizing
- Meets and exceeds Fed. Spec. DOD-P-21035A (Galvanizing Repair Spec); MIL-P-26915A (USAF Zinc Dust Primer); ASTM Des. A-780 (Standard Practice for Repair of Damaged Hot-Dip Galvanized Coatings; SSPC-Paint 20 (Specification for Zinc-Rich Primer)
- Passes 3,000 hours salt spray testing without failure (ASTM Des. B117)
- Passes 9-year subtropical testing
- Low VOC approved in all 50 states
- ISO 9001 registration assures the highest quality consistently
- Apply by brush, roller or spray
- Available in clog-free aerosol form
- Single-component



Packaging: Aerosol Can or Quart, Gallon, and 3.5 Gallon Pails

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## RTSM — MINI ROOFTOP SUPPORT



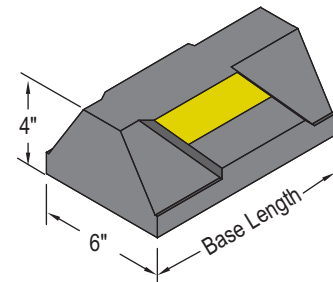
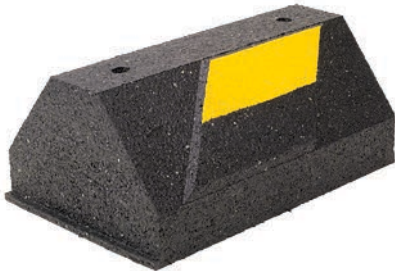
RTSM Series is made from 100% recycled rubber, the Mini-Port Support Series provides solid support and dampens vibration. It is perfect for conduit and small piping.

The RTSM Series is UV resistant and suitable for installation on most types of roofing material or other flat surfaces. Can be used as a curb (sleeper) replacement. Material effectively accepts screw fasteners for securing one (1) or two (2) hole straps (not included).

Specifications:  
 Rubber Support  
 Material - 100% Recycled Rubber, UV Resistant  
 Maximum Load - 300 lbs./ft.

Model No.	Height In (mm)	Width In (mm)	Base Length In (mm)	Wt/100 pcs Lbs
RTSM	4" 101mm	6" 152mm	4 1/2" 113mm	260

## RTS — ROOFTOP SUPPORT



RTS Series channel support is designed for superior support of gas and refrigeration piping systems, cable tray, electrical conduit, multiple lines, HVAC equipment and many other applications.

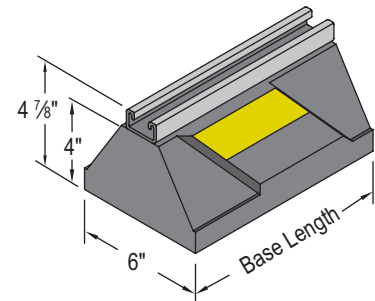
The RTS Series is UV resistant and suitable for installation on most types of roofing material or other flat surfaces. Can be used as a curb (sleeper) replacement. Material effectively accepts screw fasteners for securing one (1) or two (2) hole straps (not included).

Specifications:  
 Rubber Support  
 Material - 100% Recycled Rubber, UV Resistant  
 Maximum Load - 500 lbs./ft.

Model No.	Height In (mm)	Width In (mm)	Base Length In (mm)	Wt/100 pcs Lbs
RTS	4" 101mm	6" 152mm	9.6" 244mm	456



## RTS SERIES — ROOFTOP SUPPORT



RTS Series channel support is designed for superior support of gas and refrigeration piping systems, cable tray, electrical conduit, multiple lines, HVAC equipment and many other applications.

The RTS Series is UV resistant and suitable for installation on most types of roofing material or other flat surfaces.

**Specifications:**

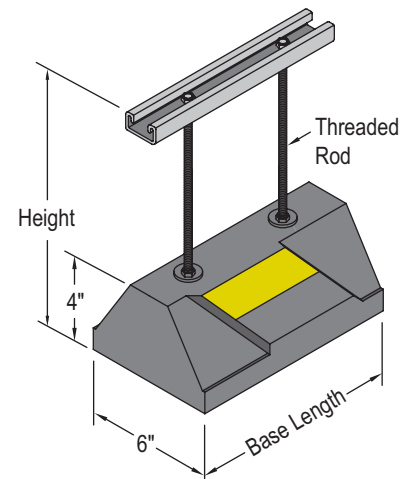
Rubber Support with <sup>13</sup>/<sub>16</sub>" Shallow Channel

Material - 100% Recycled Rubber, UV Resistant

Maximum Load - 750 lbs./ft.

Model No.	Height In (mm)	Width In (mm)	Base Length In (mm)	Wt/100 pcs Lbs
RTS5	4 7/8" 124mm	6" 152mm	5" 127mm	332
RTS10	4 7/8" 124mm	6" 152mm	9.6" 244mm	530
RTS20	4 7/8" 124mm	6" 152mm	19.2" 448mm	1,123

## RTS10-12 — ROOFTOP 12" EXTENDED SUPPORT W/10" STRUT



RTS-Extension Series channel support is designed for superior support of gas and refrigeration piping systems, cable tray, electrical conduit, multiple lines, HVAC equipment and many other applications.

The RTS-Extension Series is UV resistant and suitable for installation on most types of roofing material or other flat surfaces.

**Specifications:**

Rubber Support with Threaded Rod Risers & <sup>13</sup>/<sub>16</sub>" Galvanized Shallow Channel

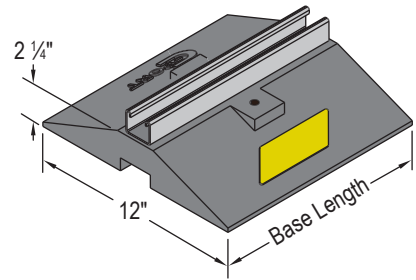
Material - 100% recycled rubber, UV resistant

Maximum Load - 150 lbs./ft.

Model No.	Height In (mm)	Width In (mm)	Base Length In (mm)	Wt/100 pcs Lbs
RTS10-12	12" 305mm	6" 152mm	9.6" 244mm	650

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## RTSW SERIES — WIDE BODY

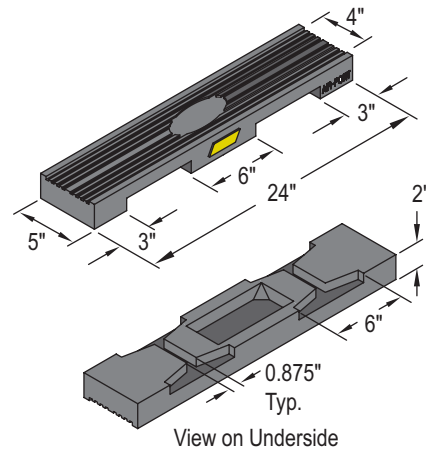


The RTSW Series is designed for superior support of gas and refrigeration piping systems, cable tray, electrical conduit, multiple lines, HVAC equipment, solar panels, and many other applications. The wide body of the base gives this support series superior stability and load-bearing capacity. It is suitable for most types of roofing material or other flat surfaces.

Specifications:  
Rubber Support 13/16" Shallow Channel  
Material - 100% Recycled Rubber, UV Resistant  
Maximum Load - 1,000 lbs./ft.

Model No.	Height In (mm)	Width In (mm)	Base Length In (mm)	Wt/100 pcs Lbs
RTSW12	3.3" 84mm	12" 305mm	12" 305mm	950
RTSW24			24" 610mm	1,900
RTSW36			36" 914mm	2,850
RTSW48			48" 1219mm	3,800
RTSW60			60" 1524mm	4,750
RTSW72			72" 1829mm	5,700

## RTAP SERIES — UTILITY PAD



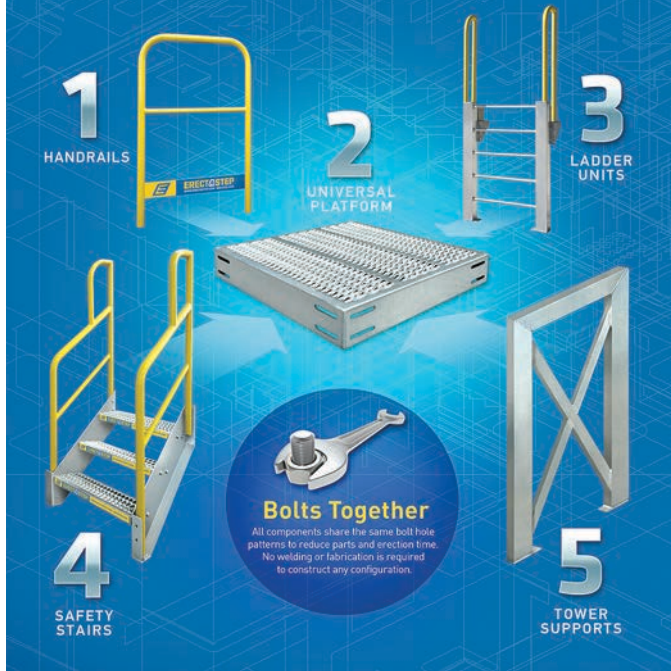
Airport Utility Pads are AIR-PORT is made from 100% recycled rubber and designed as a nonpenetrating economical and light-weight support safe for installation on any type of roofing material or other flat surface. Grooved recessed tray design prevents movement and dampens vibration while providing a solid support for all electrical and HVAC equipment. The proprietary free-flow leg system allows for easy water passage beneath the equipment inhibiting the growth of harmful moss and mould. The UV-resistant AIR-PORT is the perfect long-lasting alternative to roof-damaging heavy concrete curbing and pressure-treated wood blocks.

Specifications:  
HVAC Rubber Support System  
Material - 100% Recycled Rubber, UV Resistant  
Maximum Load - 820 lbs./ft.

Model No.	Height In (mm)	Width In (mm)	Base Length In (mm)	Wt/100 pcs Lbs
RTAP24	2" 50mm	5" 126mm	24" 610mm	712
RTAP36			36" 914mm	1,050

**ERECTASTEP – MODULAR PLATFORMS AND STAIRS**

**5 Main Components**  
Unlimited Configurations



Modular Platform and Stairs: Saves Time, Eliminates Costly Engineering and Fabrication

- Bolts Together, No Fabrication Required
- Manufactured With Robotic Technology
- Unlimited, Expandable Configurations
- Re-Purpose With Ease
- Pre-Engineered Components
- Cost Less Than Custom Fabrication

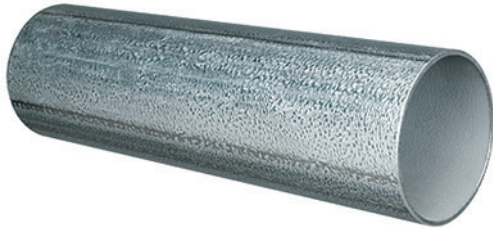


**Unlimited Configurations:**

- Crossovers
- Work Platforms
- "L" Shaped Crossovers
- Elevated Platforms
- Small Platforms
- Multi-Directional Crossover
- Maintenance Access Platforms
- Ladder Configurations
- Rolling Dolly Configurations
- Long Catwalk Platforms
- Berm Crossovers
- Rooftop Access
- Pipe Crossovers
- Re-Purpose Components As Plant Grows
- Pump Station Access
- Safely Spans 9'
- Cantilever Rolling Platforms
- Access To Top Of Tank Trucks
- Self-Leveling Stair & Work Platforms
- Adjustable Height Stairs
- Mobile Work Platforms
- Flatbed Fall Protection
- Mobile Process Work Stand
- Fall Protection



## Round Sign Posts



<b>Product:</b>	2.375" Round Sign Posts
<b>Finish:</b>	GATORSHIELD - a highly durable in-line galvanized product with a triple layer of rust and corrosion resistant protection with an anticorrosive interior zinc coating
<b>Sizes:</b>	2.375" Round O.D. (Outside Diameter)
<b>Gauges:</b>	12, 13 and 14 gauge (Wall Thickness)

Materials & Finishes: Gatorshield

Lengths: 10', 10½' & 12'

## Sign Bracket and Hardware



## U-Channel Sign Posts



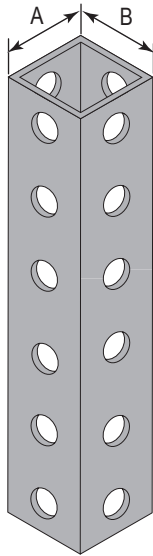
<b>Product:</b>	Our flanged U-Channel posts are manufactured from high quality, high tensile rail steel
<b>Sizes:</b>	1.12 Lbs. per Ft. 2.00 Lbs. per Ft.

Materials & Finishes: HG

Lengths: 6', 7', 8', 10' & 12'

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## Telespar Sign Support System



Part Number	Gauge	"A" In. (mm)	"B" In. (mm)
14F12	12	1½" 38.1	1½" 38.1
16F12		1¾" 44.5	1¾" 44.5
20F12		2" 50.8	2" 50.8
22F12		2¼" 57.2	2¼" 57.2
24F12		2½" 63.5	2½" 63.5
16D12		14	1¾" 44.5
20D12	2" 50.8		2" 50.8
22D12	2¼" 57.2		2¼" 57.2
	2½" 63.5		2½" 63.5

Materials & Finishes: PG

Lengths: 10', 12', 20' & 24'

**GF015**

Materials & Finishes: EG    Wt/100 pcs: 50 Lbs

**GF016**

Materials & Finishes: EG    Wt/100 pcs: 63 Lbs

**GF018**

Materials & Finishes: EG    Wt/100 pcs: 84 Lbs

**GF020**

Materials & Finishes: EG    Wt/100 pcs: 26 Lbs



## FIBERGLASS MARKER POSTS

Our Fiberglass Reinforced Polymers (FRP) sign posts are manufactured by industry leaders. Our FRP signposts come in flat and round and are designed to recover after vehicle impact and are resistant to heat, cold and sunlight. Smooth surface on FRP sign posts makes them ideal for custom decals. Please contact your UBS representative to source the right post for your job.

Product Applications Include:

- Buried Utility
- Highway Delineators
- Trail Markers
- Pipeline Markers
- Telecommunications
- Transportation
- Medical

Fiberglass Utility Marker



Round Marker Posts



Fiberglass Test Stations



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## MECHANICAL TUBE

### Flo-Coat® Galvanized Steel Tubing

- The ORIGINAL in-line galvanized tube
- High Strength
- Triple Coat Protection
- Fabrication Friendly
- Ideal for paint or powder coat

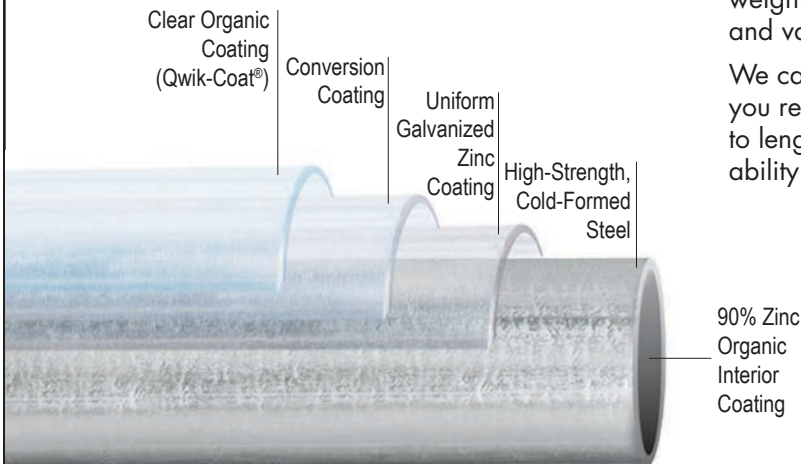
### Gatorshield® Galvanized Steel Tubing

- High Strength
- Advanced Corrosion Protection
- Double zinc levels
- Fabrication Friendly-
- Ideal for highly corrosive outdoor conditions



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Concrete Inserts

General Fittings

Spring Nuts & Hardware

Clamps & Pipe Supports

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