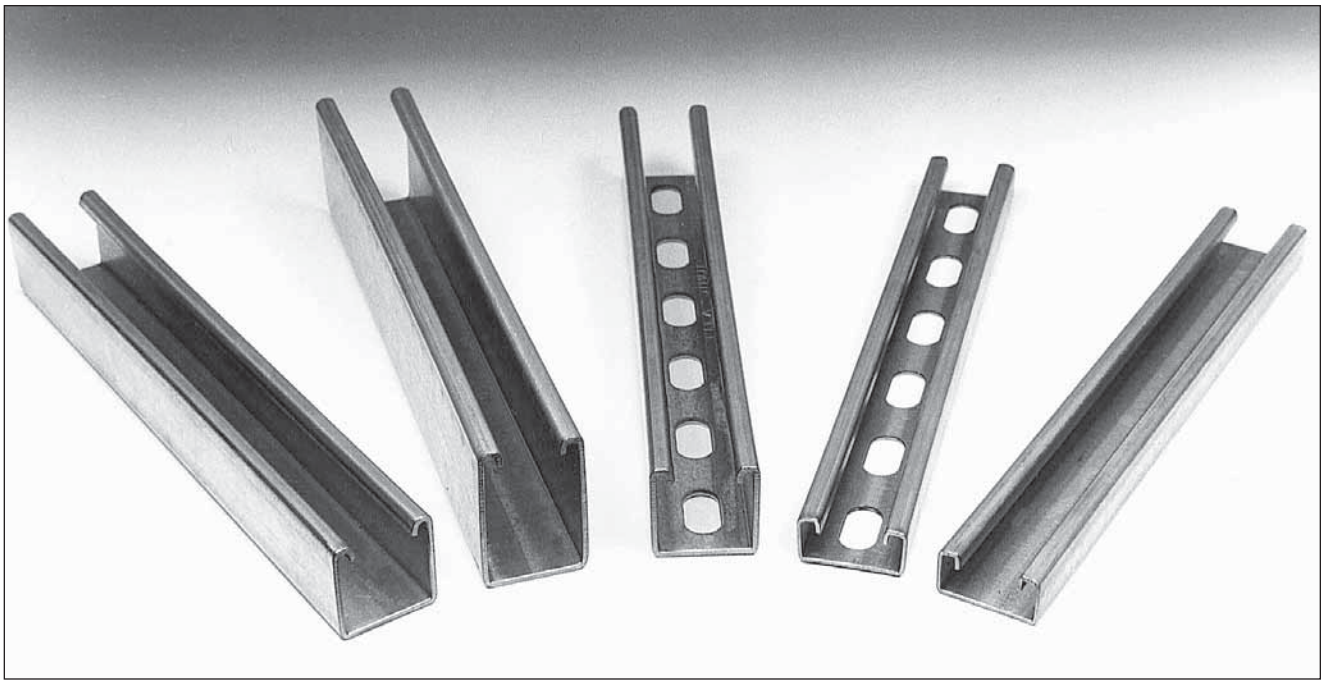
FLEX-STRUT

Producers of Continuous - Slot Metal Framing

ENGINEERING CATALOG

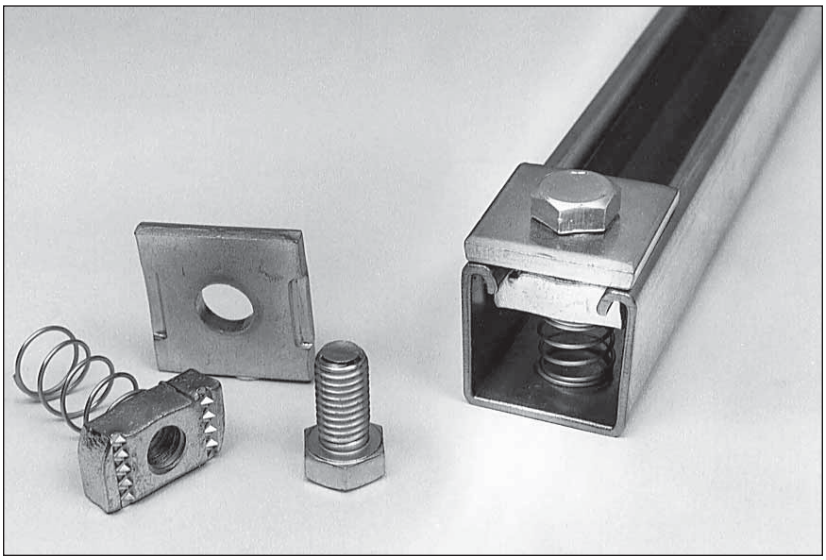
No. F-1008



(800) FX-STRUT

Tel: (800) 397-8788
Tel: (330) 372-9999
Fax: (330) 372-3666

www.flexstrut.com



FLEX-STRUT

The mission of Flex-Strut and its personnel is to provide quality metal framing products, competitively priced with excellent customer service.

Building Growth

1994 1998 2001 2004

2011

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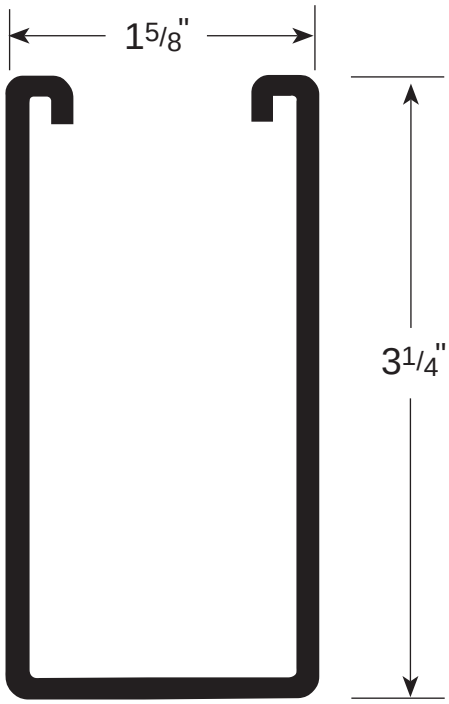
FS-100
304 #/CFT

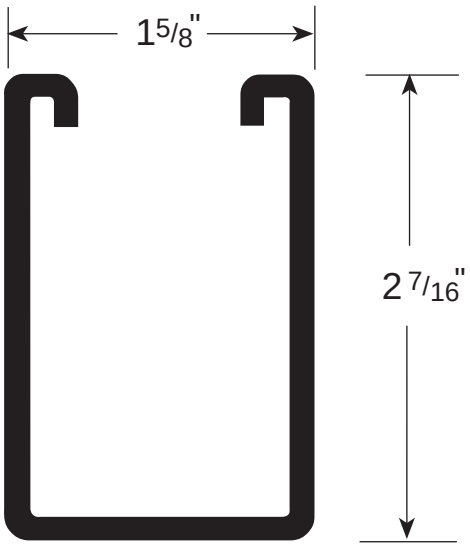
1-5/8" x 3-1/4" x 12 ga



Ref: Pg. 5

FS-150
246 #/CFT

1-5/8" x 2-7/16" x 12 ga



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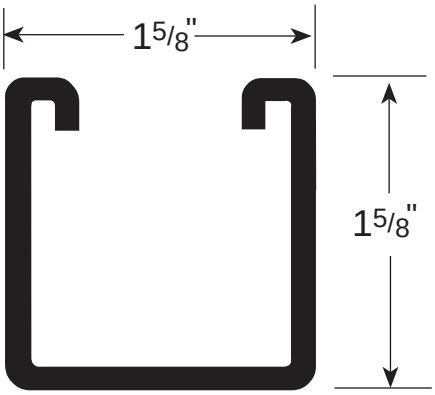
FS-200
188 #/CFT

1-5/8" x 1-5/8" x 12 ga



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FS-210
140 #/CFT

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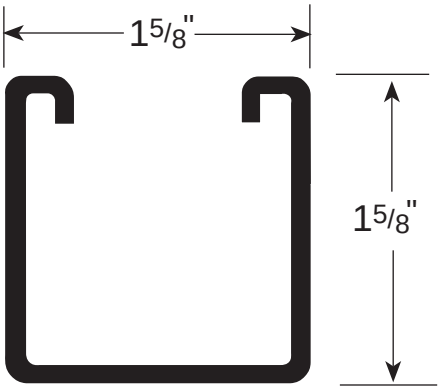
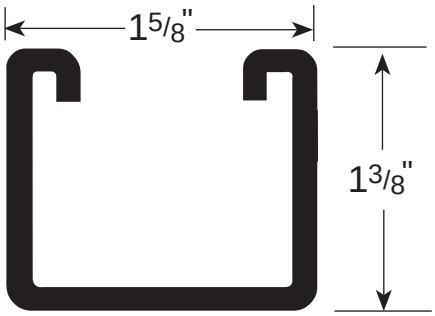


Ref: Pg. 10

FS-300
170 #/CFT

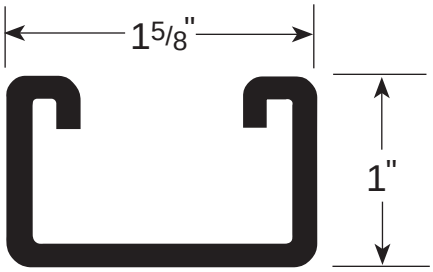
1-5/8" x 1-3/8" x 12 ga



Ref: Pg. 12

FS-400
143 #/CFT

1-5/8" x 1" x 12 ga



Ref: Pg. 13

12 ga = .105" nom.

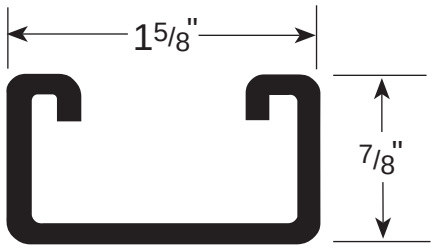
14 ga = .075" nom.

(800) FX-STRUT

Flex-Strut CHANNEL

FS-450
135 #/CFT

1-5/8” x 7/8” x 12 ga



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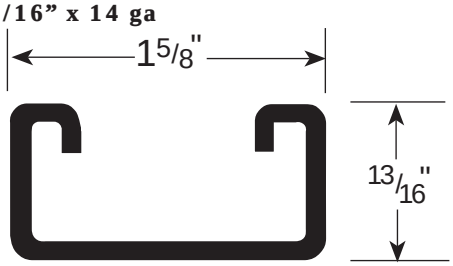
FS-500
99 #/CFT

1-5/8” x 13/16” x 14 ga



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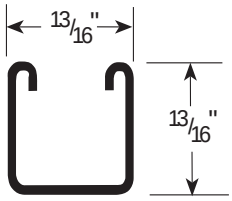
FS-600
35 #/CFT

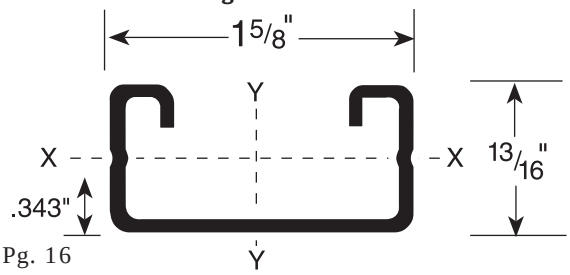
13/16” x 13/16” x 19 ga



Ref: Pg. 18

FS-510
81 #/CFT

1-5/8” x 13/16” x 16 ga



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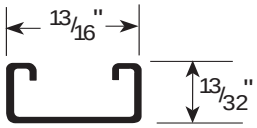
FS-700
24 #/CFT

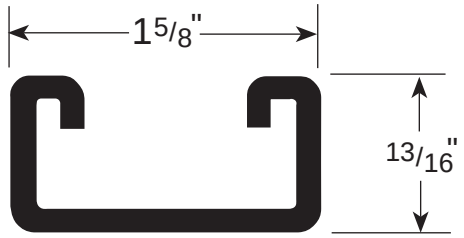
13/16” x 13/32” x 19 ga



Ref: Pg. 19

FS-520
132 #/CFT

1-5/8” x 13/16” x 12 ga

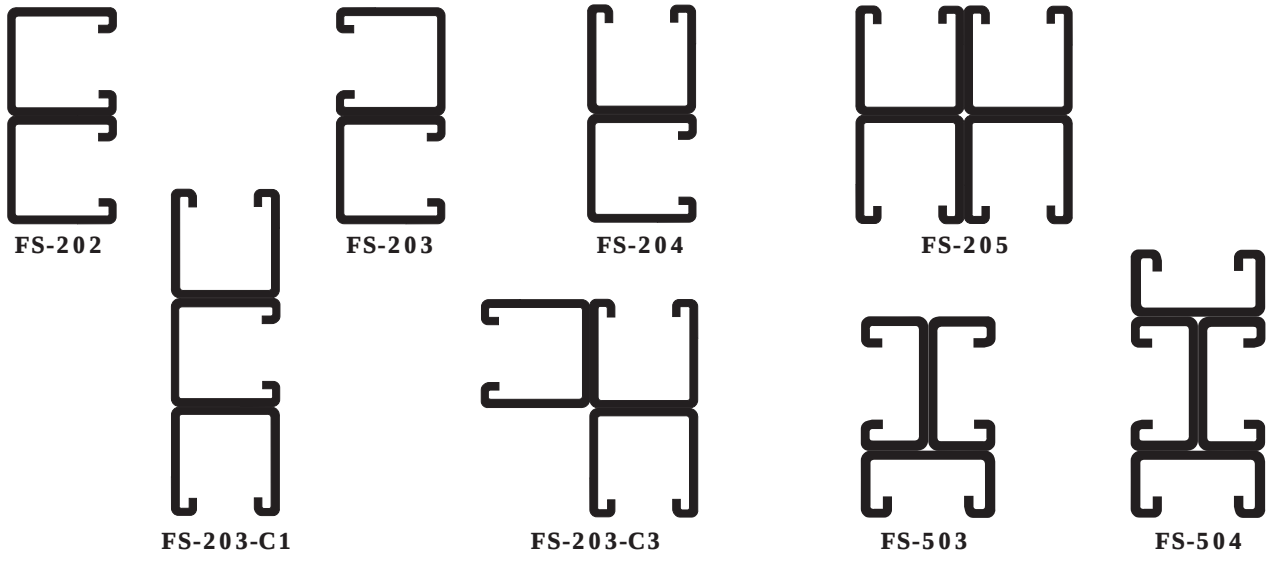


Ref: Pg. 17

19 ga = .040” nom. 12 ga = .105” nom. 14 ga = .075 nom.

WELDED COMBINATIONS

(Back-to-Back shown on Channel pages) **(Scaled Down to Size)**



(800) FX-STRUT

MATERIAL SPECIFICATIONS and GENERAL INFORMATION

CHANNEL

General – Flex-Strut channels are manufactured by Roll-forming strip steel into channel configurations.

Material – Hot-Roll, Green and Hot dip galvanized..... ASTM A1011 *(Meets the physical requirements of Grade 33)*
Pre-Galvanized..... ASTM A-653 *(Meets the physical requirements of Grade 33)*
Stainless Steel (Type 316 or 304)..... ASTM A240
Aluminum ..... 6005-T5 (Exceeds 6063-T6 Strength)

Design – Design tables are based on AISI "Cold Formed Steel Design Manual".

Welding – Channel combinations are made by spot welding or plug welding. Weld spacing is three inches (3") on center

Finishes – Channels are available in Plain (PL), Pre-galvanized (PG)(G90 per ASTM A653(0.90oz/sq ft; 0.77 mil thickness and Green (GR). Some channels are available in Aluminum (AL), Stainless Steel (ST4 or ST6), Hot-Dip Galvanized After Fabrication (HD)(Per ASTM A123 Grade 85(3.3mil thickness)), Gold (GD)(Per ASTM B633 Type II SC2 with yellow chromate (0.30 mil thickness)), fiberglass, and PVC coated. Custom colors are available upon request.

LOAD REDUCTIONS

Values in load tables assume simply supported, solid steel channel with uniform loading.

Reduction factors for other conditions can be seen in the table below.

CONDITIONS	REDUCTION FACTOR
Short Slot (SS) and Holes (H)	0.85
Slotted (SL)	0.90
Knock-out (KO)	0.95
Center Point Load (Published Allowable Stress Values)	0.50
Center Point Load (Published Allowable Deflection Values)	0.80
Slotted, Back to Back Channel (Table values marked with *)	0.75
Aluminum Strut w/ Uniform Load (Published Allowable Stress Values)	0.60
Aluminum Strut w/ Uniform Load (Published Allow. Deflection Values)	0.33
Aluminum Strut w/ Center Point Load (Published Allowable Stress Values)	0.30
Aluminum Strut w/ Center Point Load (Published Allowable Deflection Values)	0.26

NOTE: Load reductions can be combined for multiple reduction conditions Ex: FS-200SS AL @ 120.00" (Allowable Uniform load (1/240 deflection) = 120.85*.33=34lbs

CHANNEL NUTS

General – Flex-Strut channel nuts are stamped from steel bar and case hardened after forming and tapping.

Material – Steel bar used to manufacture Channel nuts conforms to ASTM A1011.

Finish – Electro-galvanized (E/G) zinc per ASTM B-633 (Type III SC1 (0.2 mil thickness)). Aluminum (ASTM B221, Type 6063-T5), Stainless Steel (ASTM B783 (Type 316N2-33) or ASTM A276) and Fiberglass nuts are available in some sizes.

FITTINGS

General – Flex-Strut fittings are manufactured by punching and cold forming steel for specific channel connection applications. Typical fittings are ¼" thick and 1-5/8" wide. Typical holes are 9/16" diameter, 1-7/8" on center and 13/16" from ends.

Material – Steel bar used to manufacture fittings conforms to ASTM A575 or ASTM A1011 GR 33

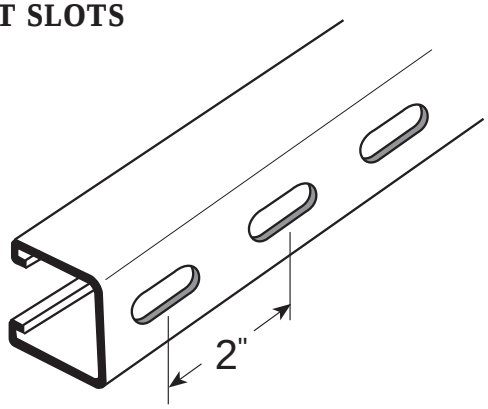
Finish – Electro-galvanized (E/G) zinc per ASTM B-633 (Type III SC1 (0.2 mil thickness)). Some fittings available in Aluminum (5052-H32), Stainless Steel (ASTM A276) and Fiberglass.

LOAD DATA

Allowable channel beam and column loads shown in the following tables were developed per the NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2007 Edition (ASD Method).

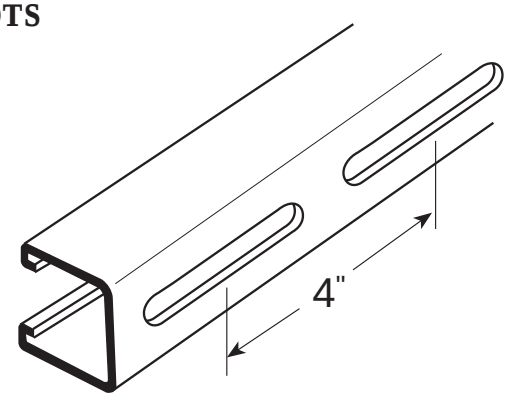
CHANNEL FABRICATIONS

SHORT SLOTS



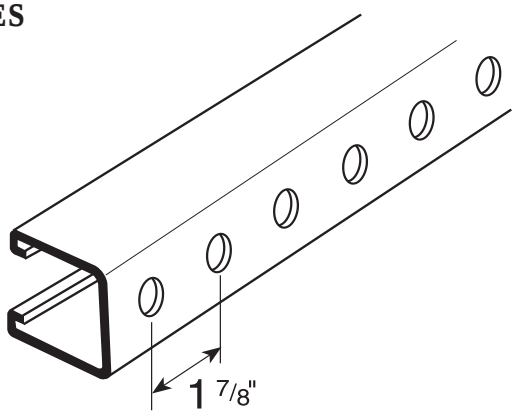
9/16″ x 1-1/8″ SLOTS • 2″ ON CENTER
SUFFIX = “SS” i.e., FS-200SS

SLOTS



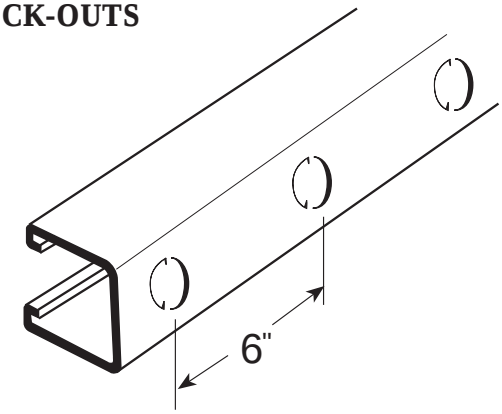
13/32″ x 3″ SLOTS • 4″ ON CENTER
SUFFIX = “SL” i.e., FS-200SL

HOLES



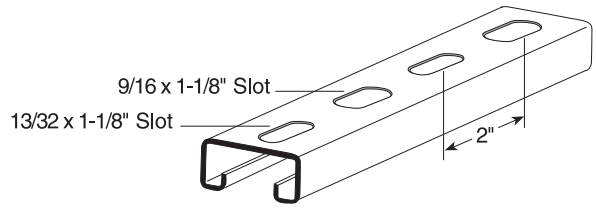
9/16″ DIAMETER HOLES • 1-7/8″ ON CENTER
SUFFIX = “H” i.e., FS-200H

KNOCK-OUTS

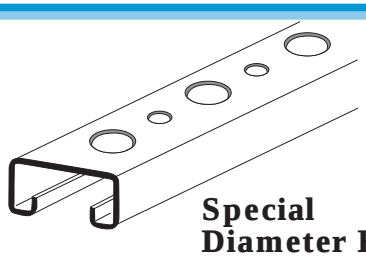


7/8″ DIAMETER KNOCKOUTS • 6″ ON CENTER
SUFFIX = “KO” i.e., FS-200KO

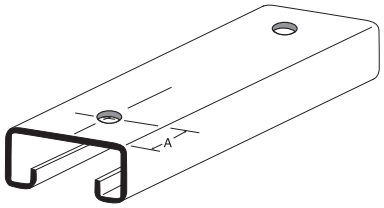
SPECIAL FABRICATIONS



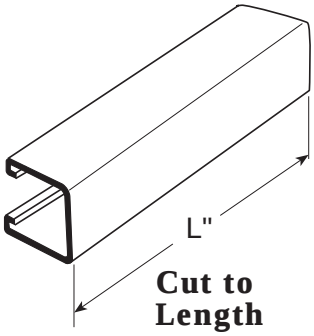
Universal Slot



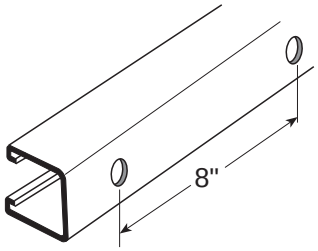
Special Diameter Holes



Holes Both Ends



Cut to Length



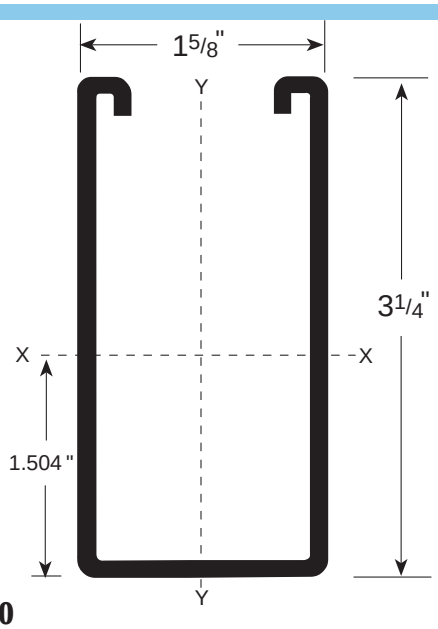
-H8

(800) FX-STRUT

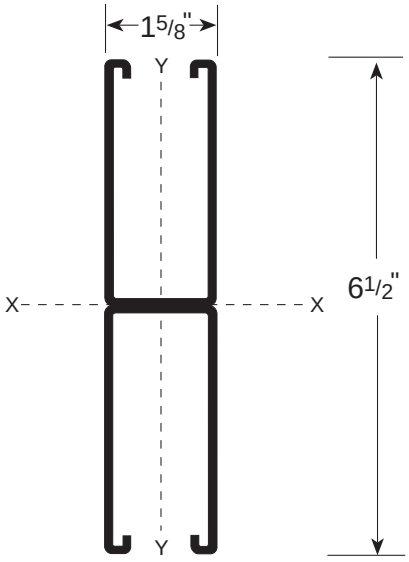
FS-100 • 3-1/4" CHANNEL • 12 Gauge

SECTION PROPERTIES			X-X AXIS			Y-Y AXIS		
CHNL P/N	WT/FT LBS.	AREA SQ. IN.	Ix in^4	Sx in^3	Rx in	Iy in^4	Sy in^3	Ry in
FS-100	3.04	.894	1.089	.624	1.104	.432	.532	.695
FS-101	6.08	1.788	6.222	1.914	1.865	.863	1.063	.695

I = Moment of Inertia **S = Section Modulus** **R = Radius of Gyration**



FS-100



FS-101

CHANNEL FINISH: • **PLAIN (PL)** • **PRE-GALVANIZED (PG)** • **GREEN (GR)** • **HOT-DIPPED GALVANIZED (HD)** • **ALUMINUM (AL)**

STANDARD LENGTH: **20 FT.** • **10 FT.**

ALLOWABLE BEAM LOADS — Span In Inches

CHNL P/N		24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-100	Stress 1/240	5,200 ***	4,160 ***	3,470 ***	2,970 ***	2,600 ***	2,080 ***	1,730 ***	1,490 1,480	1,300 1,130	1,160 900	1,040 730
FS-101	Stress 1/240	5,020* ***	5,020* ***	5,020* ***	5,020* ***	5,020* ***	5,020* ***	5,020* ***	4,560 ***	3,990 ***	3,545 ***	3,190 ***

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/2" Def. for 120" Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load limited by spot weld shear.
6. For punched channel, reduce weld limited loads by 0.75 due to 4" weld spacing.
7. *** Load controlled by 25,000 PSI design stress.

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

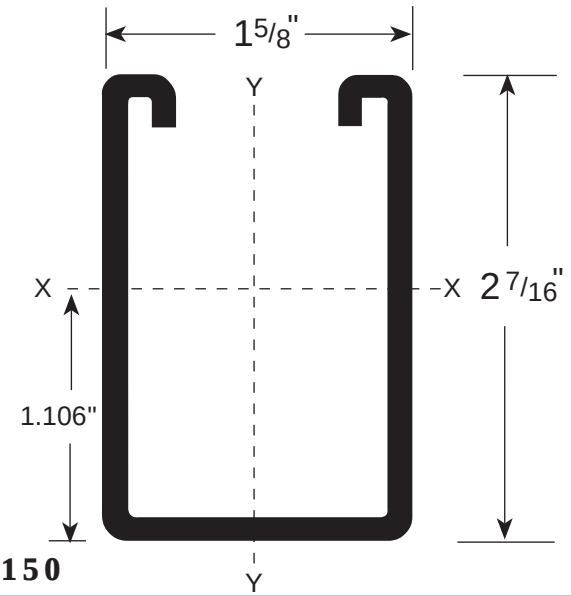
CHNL P/N	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-100	13,400	11,590	9,805	8,140	6,655	4,630	3,520	2,840	2,385	2,070	1,830
FS-101	32,700	32,700	32,330	31,300	30,160	27,580	24,730	21,735	18,730	15,820	13,070

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.

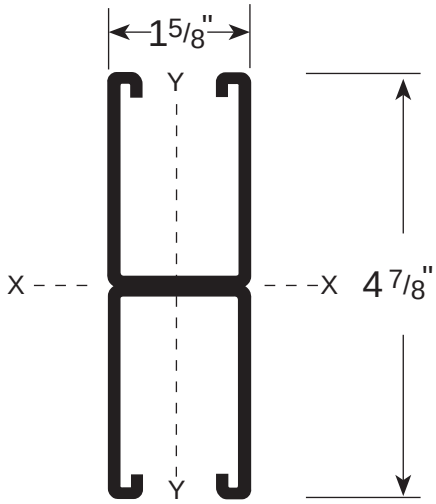
FS-150 • 2-7/16" CHANNEL • 12 Gauge

SECTION PROPERTIES			X-X AXIS			Y-Y AXIS		
CHNL P/N	WT/FT LBS.	AREA SQ. IN.	Ix in^4	Sx in^3	Rx in	Iy in^4	Sy in^3	Ry in
FS-150	2.46	.723	.516	.388	.845	.333	.410	.679
FS-151	4.92	1.447	2.801	1.149	1.392	.666	.820	.679

I = Moment of Inertia S = Section Modulus R = Radius of Gyration



FS-150



FS-151

CHANNEL FINISH: • PLAIN (PL) • PRE-GALVANIZED (PG) • GREEN (GR) • HOT-DIPPED GALVANIZED (HD) • ALUMINUM (AL)

STANDARD LENGTH: 20 FT. • 10 FT.

ALLOWABLE BEAM LOADS — Span In Inches

CHNL P/N		24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-150	Stress 1/240	3,230 ***	2,580 ***	2,150 ***	1,850 ***	1,620 ***	1,290 ***	1,080 940	920 700	810 540	720 430	650 340
FS-151	Stress 1/240	3,800* ***	3,800* ***	3,800* ***	3,800* ***	3,800* ***	3,800* ***	3,190 ***	2,740 ***	2,390 ***	2,130 ***	1,920 1,870

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/2" Def. for 120" Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load limited by spot weld shear.
6. For punched channel, reduce weld limited loads by 0.75 due to 4" weld spacing.
7. *** Load controlled by 25,000 PSI design stress.

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

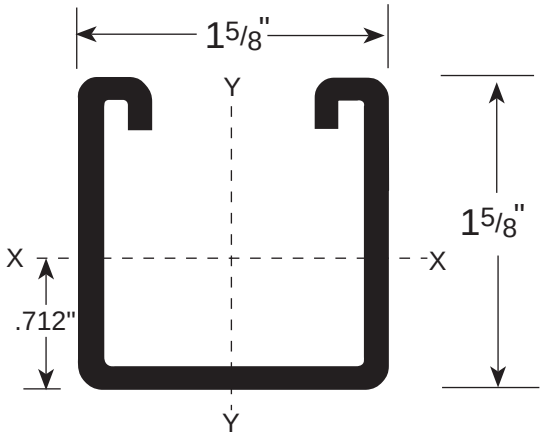
CHNL P/N	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-150	11,240	9,850	8,490	7,240	6,130	4,440	3,470	2,865	2.450	2,150	1,915
FS-151	28,010	27,375	26,600	25,700	24,695	22,440	19,965	17,390	14,825	12,375	10,110

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.

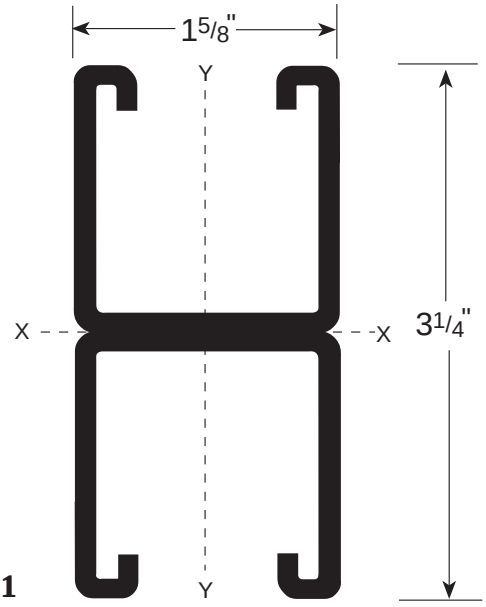
FS-200 • 1-5/8" CHANNEL • 12 Gauge

SECTION PROPERTIES			X-X AXIS			Y-Y AXIS		
CHNL P/N	WT/FT LBS.	AREA SQ. IN.	Ix in^4	Sx in^3	Rx in	Iy in^4	Sy in^3	Ry in
FS-200	1.88	.553	.182	.199	.574	.234	.289	.651
FS-201	3.76	1.105	.925	.569	.915	.469	.577	.651

I = Moment of Inertia **S = Section Modulus** **R = Radius of Gyration**



FS-200



FS-201

CHANNEL FINISH:
- **PLAIN (PL)** • **PRE-GALVANIZED (PG)** • **GREEN (GR)**
- **HOT-DIPPED GALVANIZED (HD)** • **ALUMINUM (AL)** • **STAINLESS (ST4) TYPE 304**
- **PVC Coated** • **STAINLESS (ST6) TYPE 316**

STANDARD LENGTH: **20 FT. • 10 FT.**

ALLOWABLE BEAM LOADS — Span In Inches

CHNL P/N		24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-200	Stress 1/240	1,660 ***	1,330 ***	1,110 ***	950 ***	830 760	660 490	550 340	480 250	420 190	370 150	330 120
FS-201	Stress 1/240	2,550* ***	2,550* ***	2,550* ***	2,550* ***	2,370 ***	1,900 ***	1,580 ***	1,360 1,260	1,190 960	1,050 760	950 620

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/2" Def. for 120" Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load limited by spot weld shear.
6. For punched channel, reduce weld limited loads by 0.75 due to 4" weld spacing.
7. *** Load controlled by 25,000 PSI design stress.

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

CHNL P/N	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-200	9,050	8,090	7,185	6,370	5,650	4,470	3,615	3,040	2,615	2,285	2,015
FS-201	21,995	21,445	20,840	20,045	19,170	17,220	15,105	12,940	10,820	8,820	7,145

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.

FTS-200H3 and FS-200H3 Telescoping Channel

FTS-200H3 and FS-200H3 sold separately

Slip Load Resistance (Safety Factor = 3)

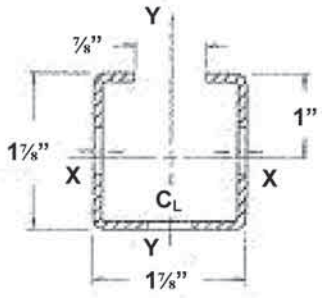
Typical 1/4" thick 2-hole fitting with (2) ½" bolts and nuts	700 lbs
½" bolt and nut	3600 lbs

Standard Finish: Available in Green (GR)
Pre-galvanized (PG)

FTS-200H3

Telescopng Strut (1-7/8" x 1-7/8" 12 gauge channel — fits over 1-5/8" x 1-5/8" channels 9/16" holes on 1-7/8" centers)

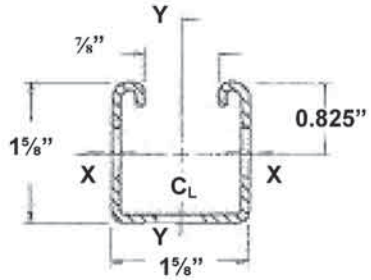
Section Properties*		X-X Axis			Y-Y Axis		
Weight lbs/ft	Area In^2	I_x In^4	S_x In^3	r_x In	I_y In^4	S_y In^3	r_y In
1.93	0.458	0.253	0.253	0.743	0.276	0.294	0.776



FS-200H3

3-Hole Strut (1-5/8" x 1-5/8" 12 gauge channel with 9/16" holes on 1-7/8" centers on three sides)

Section Properties*		X-X Axis			Y-Y Axis		
Weight lbs/ft	Area In^2	I_x In^4	S_x In^3	r_x In	I_y In^4	S_y In^3	r_y In
1.66	0.386	0.160	0.194	0.640	0.172	0.212	0.664

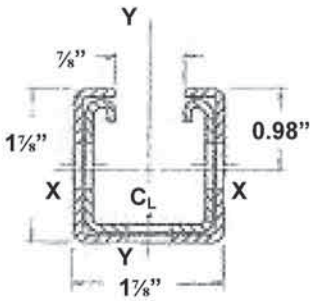


FTS-200H3 and FS-200H3 (combination)

1-5/8" x 1-5/8" 12 gauge channel with 9/16" holes on 1-7/8" centers on three sides

Section Properties*		X-X Axis			Y-Y Axis		
Weight lbs/ft	Area In^2	I_x In^4	S_x In^3	r_x In	I_y In^4	S_y In^3	r_y In
3.60	0.847	0.413	0.422	0.698	.0448	0.477	0.727

*Section properties are based on nominal metal thickness and overall dimensions.



Beam Loading Data

FTS-200H3

Beam Span (inches)	Beam Load data x-x Axis		
	Allowable Load (lbs)	Resulting Deflection (inches)	Allowable Load @ Deflection = 1/240 Span
12	4203	0.012	4203
24	2099	0.050	2099
36	1396	0.112	1396
48	1044	0.200	1044
60	831	0.312	664
72	689	0.450	456
84	587	0.612	330
96	510	0.799	248
108	450	1.012	190
120	401	1.249	149

FS-200H3

Beam Span (inches)	Beam Load data x-x Axis		
	Allowable Load (lbs)	Resulting Deflection (inches)	Allowable Load @ Deflection = 1/240 Span
12	2225	0.015	3225
24	1610	0.061	1610
36	1071	0.136	1071
48	800	0.243	658
60	637	0.379	417
72	528	0.546	286
84	449	0.743	206
96	390	0.970	153
108	344	1.228	116
120	306	1.516	90

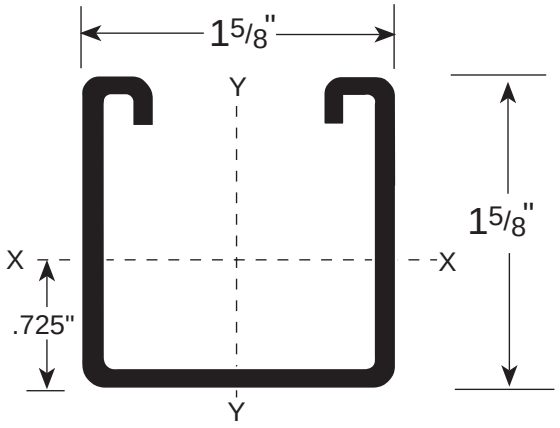
FTS-200H3 and FS-200H3 (both pieces equal length)

Beam Span (inches)	Beam Load data x-x Axis		
	Allowable Load (lbs)	Resulting Deflection (inches)	Allowable Load @ Deflection = 1/240 Span
12	7033	0.013	7033
24	3511	0.051	3511
36	2335	0.115	2335
48	1745	0.205	1705
60	1389	0.320	1082
72	1151	0.460	742
84	980	0.627	536
96	851	0.819	401
108	749	1.036	307
120	668	1.279	239

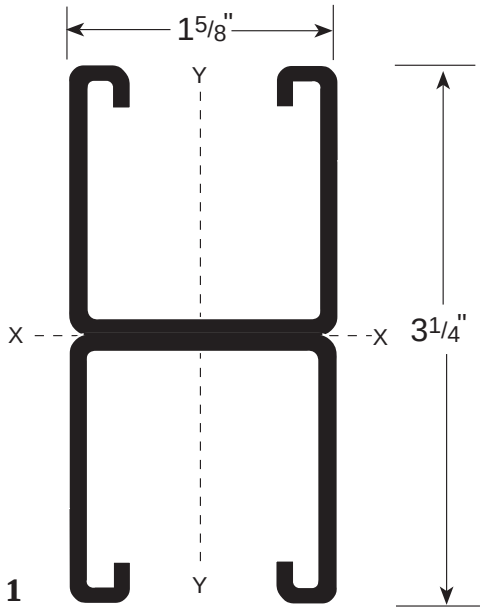
FS-210 • 1-5/8" CHANNEL • 14 Gauge

SECTION PROPERTIES			X-X AXIS			Y-Y AXIS		
CHNL P/N	WT/FT LBS.	AREA SQ. IN.	Ix in^4	Sx in^3	Rx in	Iy in^4	Sy in^3	Ry in
FS-210	1.40	.412	.145	.161	.592	.180	.180	.661
FS-211	2.80	.824	.722	.444	.936	.361	.444	.661

I = Moment of Inertia S = Section Modulus R = Radius of Gyration



FS-210



FS-211

CHANNEL FINISH: • PLAIN (PL) • PRE-GALVANIZED (PG) • GREEN (GR) • HOT-DIPPED GALVANIZED (HD)

STANDARD LENGTH: 20 FT. • 10 FT.

ALLOWABLE BEAM LOADS — Span In Inches

CHNL P/N		24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-210	Stress 1/240	1,340 ***	1,070 ***	900 ***	770 ***	670 600	540 390	450 270	380 200	340 150	300 120	270 100
FS-211	Stress 1/240	2,180* ***	2,180* ***	2,180* ***	2,115 ***	1,850 ***	1,480 ***	1,225 ***	1,060 980	930 750	820 590	740 480

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/2" Def. for 120" Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load limited by spot weld shear.
6. For punched channel, reduce weld limited loads by 0.75 due to 4" weld spacing.
7. *** Load controlled by 25,000 PSI design stress.

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

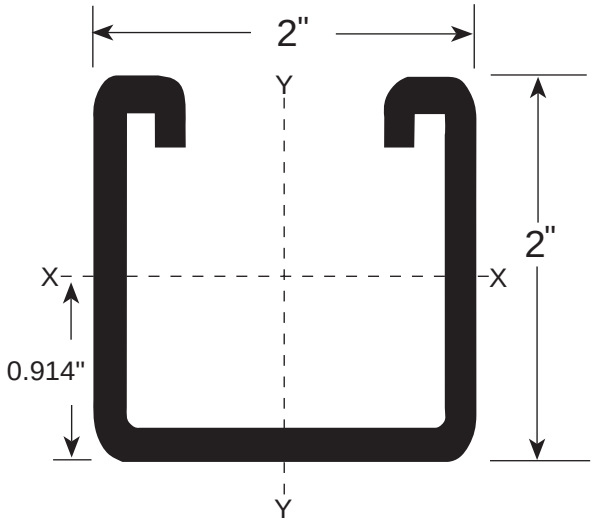
CHNL P/N	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-210	6,600	5,845	5,090	4,385	3,745	2,715	2,100	1,720	1,460	1,270	1,125
FS-211	15,890	15,455	14,965	14,450	13,920	12,650	11,170	9,650	8,145	6,725	5,455

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.

FS-280 • 2" CHANNEL • 10 Gauge

SECTION PROPERTIES			X-X AXIS			Y-Y AXIS		
CHNL P/N	WT/FT LBS.	AREA SQ. IN.	Ix in^4	Sx in^3	Rx in	Iy in^4	Sy in^3	Ry in
FS-280	3.10	.912	.476	.438	.723	.569	.569	.790

I = Moment of Inertia S = Section Modulus R = Radius of Gyration



FS-280

CHANNEL FINISH:

- **PLAIN (PL)**
- **HOT-DIPPED GALVANIZED (HD)**

STANDARD LENGTH: **20 FT. • 10 FT.**

ALLOWABLE BEAM LOADS — Span In Inches

CHNL P/N		24"	36"	48"	60"	72"	84"	96"	108"	120"	132"	144"	156"	180"
FS-280	Stress 1/240	3,650	2,440	1,830	1,460	1,220	1,040	910	810	730	660	610	560	490
		***	***	***	1,270	880	650	500	390	320	260	220	190	140

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/2" Def. for 120" Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load controlled by 25,000 PSI design stress.

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

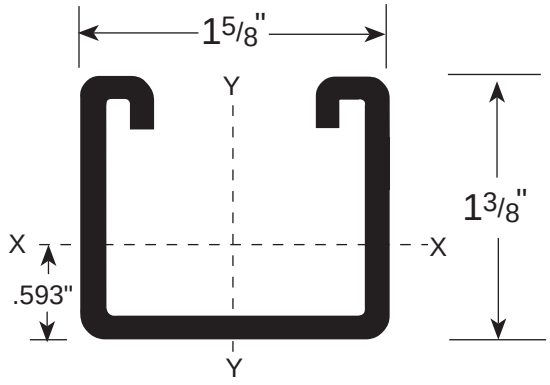
CHNL P/N	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-280	16,320	15,055	13,765	12,520	11,350	9,300	7,635	6,315	5,385	4,690	4,135

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.

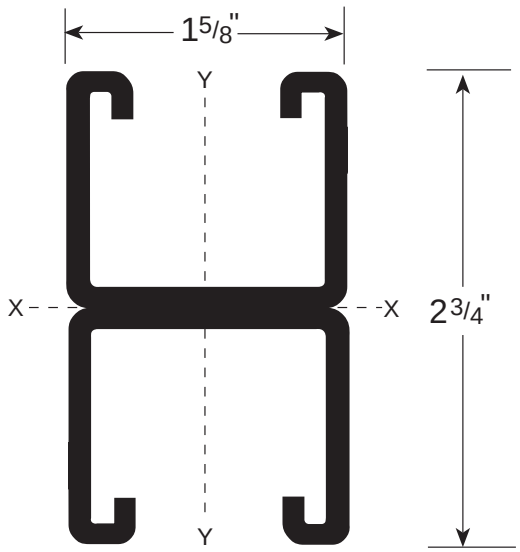
FS-300 • 1-3/8" CHANNEL • 12 Gauge

SECTION PROPERTIES			X-X AXIS			Y-Y AXIS		
CHNL P/N	WT/FT LBS.	AREA SQ. IN.	Ix in^4	Sx in^3	Rx in	Iy in^4	Sy in^3	Ry in
FS-300	1.70	.500	.118	.151	.487	.204	.251	.639
FS-301	3.40	1.000	.589	.428	.767	.408	.502	.639

I = Moment of Inertia S = Section Modulus R = Radius of Gyration



FS-300



FS-301

CHANNEL FINISH: • PLAIN (PL) • PRE-GALVANIZED (PG) • GREEN (GR) • HOT-DIPPED GALVANIZED (HD)

STANDARD LENGTH: 20 FT. • 10 FT.

ALLOWABLE BEAM LOADS — Span In Inches

CHNL P/N		24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-300	Stress 1/240	1,260 ***	1,010 ***	840 ***	720 640	630 490	500 320	420 220	360 160	310 120	280 100	250 80
FS-301	Stress 1/240	2,160* ***	2,160* ***	2,160* ***	2,040 ***	1,785 ***	1,430 ***	1,190 1,090	1,020 800	890 615	795 485	715 395

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/2" Def. for 120" Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load limited by spot weld shear.
6. For punched channel, reduce weld limited loads by 0.75 due to 4" weld spacing.
7. *** Load controlled by 25,000 PSI design stress.

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

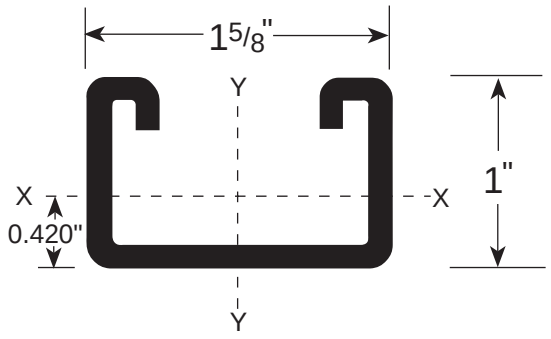
CHNL P/N	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-300	7,360	6,745	6,170	5,645	5,175	4,375	3,705	3,120	2,670	2,275	1,845
FS-301	17,215	16,840	16,435	15,875	15,255	13,860	12,330	10,735	9,150	7,635	6,235

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.

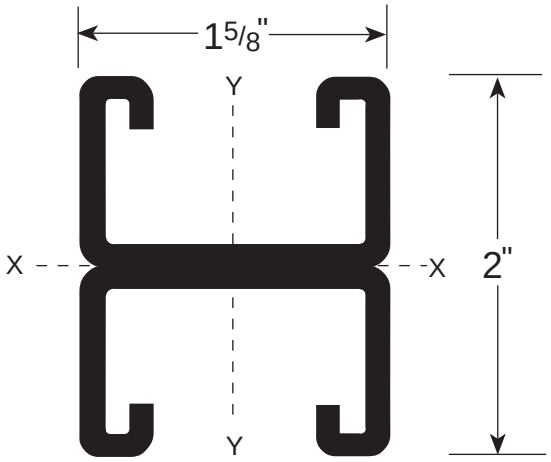
FS-400 • 1" CHANNEL • 12 Gauge

SECTION PROPERTIES			X-X AXIS			Y-Y AXIS		
CHNL P/N	WT/FT LBS.	AREA SQ. IN.	Ix in^4	Sx in^3	Rx in	Iy in^4	Sy in^3	Ry in
FS-400	1.43	.421	.052	.089	.350	.159	.195	.613
FS-401	2.86	.843	.250	.250	.545	.317	.390	.613

I = Moment of Inertia **S = Section Modulus** **R = Radius of Gyration**



FS-400



FS-401

CHANNEL FINISH: • PLAIN (PL) • PRE-GALVANIZED (PG) • GREEN (GR) • HOT-DIPPED GALVANIZED (HD) • ALUMINUM (AL)

STANDARD LENGTH: 20 FT. • 10 FT.

ALLOWABLE BEAM LOADS — Span In Inches

CHNL P/N		24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-400	Stress 1/240	750	600	500	430	370	300	250	210	190	170	150
		***	560	390	280	220	140	100	70	50	40	35
FS-401	Stress 1/240	1,540*	1,540*	1,390	1,190	1,040	830	695	595	520	465	420
		***	***	***	***	***	670	465	340	260	205	170

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/2" Def. for 120" Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load limited by spot weld shear.
6. For punched channel, reduce weld limited loads by 0.75 due to 4" weld spacing.
7. *** Load controlled by 25,000 PSI design stress.

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

CHNL P/N	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-400	7,350	6,765	6,240	5,555	4,750	3,260	2,265	1,665	*****	*****	*****
FS-401	14,420	13,965	13,420	12,805	12,130	10,655	9,090	7,540	6,070	4,800	3,890

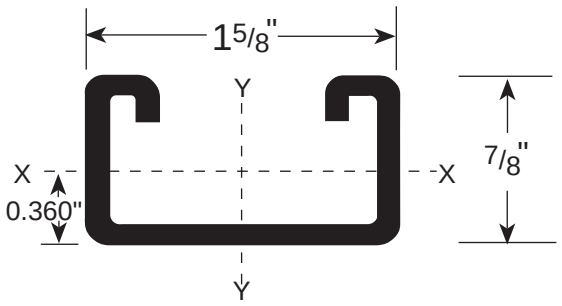
***** = KL/R>200

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.

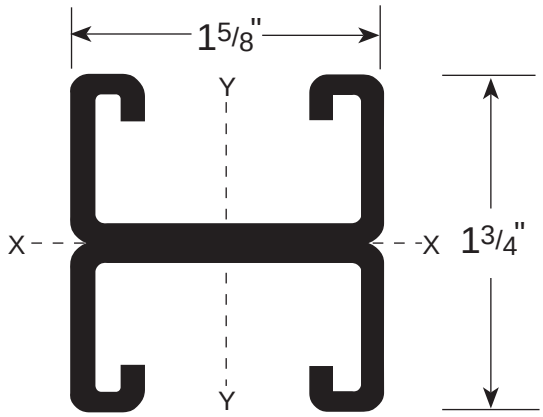
FS-450 • 7/8" CHANNEL • 12 Gauge

SECTION PROPERTIES			X-X AXIS			Y-Y AXIS		
CHNL P/N	WT/FT LBS.	AREA SQ. IN.	Ix in^4	Sx in^3	Rx in	Iy in^4	Sy in^3	Ry in
FS-450	1.35	.400	.037	.073	.305	.146	.180	.603
FS-451	2.70	.800	.183	.208	.475	.294	.361	.603

I = Moment of Inertia S = Section Modulus R = Radius of Gyration



FS-450



FS-451

CHANNEL FINISH: • PLAIN (PL) • PRE-GALVANIZED (PG) • GREEN (GR) • HOT-DIPPED GALVANIZED (HD)

STANDARD LENGTH: 20 FT. • 10 FT.

ALLOWABLE BEAM LOADS — Span In Inches

CHNL P/N		24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-450	Stress 1/240	600	480	400	340	300	240	200	170	150	130	120
		***	400	270	201	150	100	70	50	40	30	25
FS-451	Stress 1/240	1,380*	1,380*	1,160	995	870	695	580	500	435	385	350
		***	***	***	***	765	490	340	250	190	150	120

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/2" Def. for 120" Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load limited by spot weld shear.
6. For punched channel, reduce weld limited loads by 0.75 due to 4" weld spacing.
7. *** Load controlled by 25,000 PSI design stress.

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

CHNL P/N	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-450	5,965	5,390	4,755	4,100	3,450	2,305	1,600	*****	*****	*****	*****
FS-451	13,280	12,715	12,060	11,325	10,535	8,855	7,160	5,570	4,265	3,370	*****

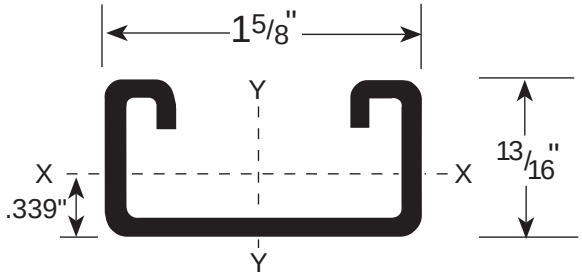
***** = KL/R>200

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.

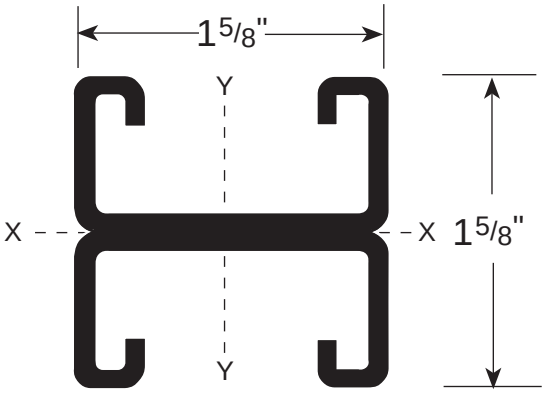
FS-500 • 13/16" CHANNEL • 14 Gauge

SECTION PROPERTIES			X-X AXIS			Y-Y AXIS		
CHNL P/N	WT/FT LBS.	AREA SQ. IN.	Ix in^4	Sx in^3	Rx in	Iy in^4	Sy in^3	Ry in
FS-500	.99	.290	.025	.053	.295	.107	.132	.607
FS-501	1.98	.581	.117	.144	.449	.214	.263	.607

I = Moment of Inertia **S = Section Modulus** **R = Radius of Gyration**



FS-500



FS-501

CHANNEL FINISH:
- **PLAIN (PL)** • **PRE-GALVANIZED (PG)** • **GREEN (GR)**
- **HOT-DIPPED GALVANIZED (HD)** • **ALUMINUM (AL)** • **STAINLESS (ST4) TYPE 304**
- **PVC COATED** • **STAINLESS (ST6) TYPE 316**

STANDARD LENGTH: **20 FT. • 10 FT.**

ALLOWABLE BEAM LOADS — Span In Inches

CHNL P/N		24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-500	Stress 1/240	440 420	350 270	290 190	250 140	220 100	180 70	150 50	130 35	110 25	100 20	90 15
FS-501	Stress 1/240	1070* ***	960 ***	800 ***	690 640	600 490	480 310	400 220	340 160	300 120	270 100	240 80

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/2" Def. for 120" Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load limited by spot weld shear.
6. For punched channel, reduce weld limited loads by 0.75 due to 4" weld spacing.
7. *** Load controlled by 25,000 PSI design stress.

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

CHNL P/N	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-500	4,855	4,325	3,685	3,055	2,455	1,570	1,090	*****	*****	*****	*****
FS-501	11,230	10,610	9,895	9,115	8,290	6,600	4,995	3,675	2,815	2,225	*****

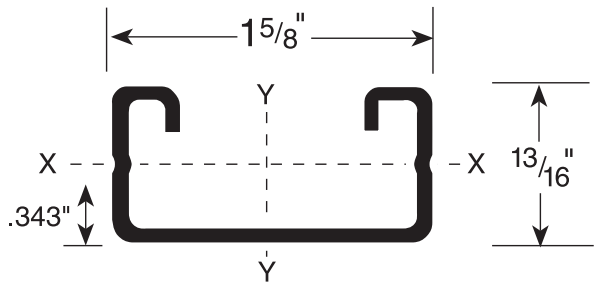
***** = KL/R>200

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.

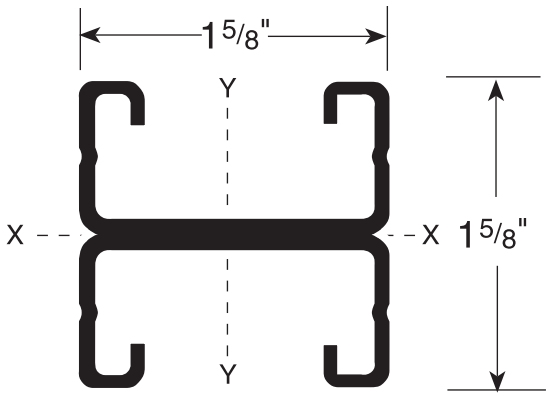
FS-510 • 13/16" CHANNEL • 16 Gauge

SECTION PROPERTIES			X-X AXIS			Y-Y AXIS		
CHNL P/N	WT/FT LBS.	AREA SQ. IN.	Ix in^4	Sx in^3	Rx in	Iy in^4	Sy in^3	Ry in
FS-510	.81	.241	.022	.064	.302	.091	.112	.614
FS-511	1.62	.483	.102	.126	.460	.182	.224	.614

I = Moment of Inertia S = Section Modulus R = Radius of Gyration



FS-510



FS-511

CHANNEL FINISH:
- **PLAIN (PL) • PRE-GALVANIZED (PG) • GREEN (GR)**
- **HOT-DIPPED GALVANIZED (HD)**
- **PVC COATED**

STANDARD LENGTH: **20 FT. • 10 FT.**

ALLOWABLE BEAM LOADS — Span In Inches

CHNL P/N		24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-510	Stress	390	310	260	225	195	155	130	110	100	90	80
	1/240	370	235	165	120	90	60	40	30	25	20	15
FS-511	Stress	810*	810*	700	600	525	420	350	300	260	230	210
	1/240	***	***	***	555	425	270	190	140	105	85	70

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/2" Def. for 120" Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load limited by spot weld shear.
6. For punched channel, reduce weld limited loads by 0.75 due to 4" weld spacing.
7. *** Load controlled by 25,000 PSI design stress.

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

CHNL P/N	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-510	3,890	3,470	3,070	2,570	2,100	1,350	940	*****	*****	*****	*****
FS-511	9,090	8,610	8,060	7,450	6,810	5,480	4,205	3,115	2,385	1,885	*****

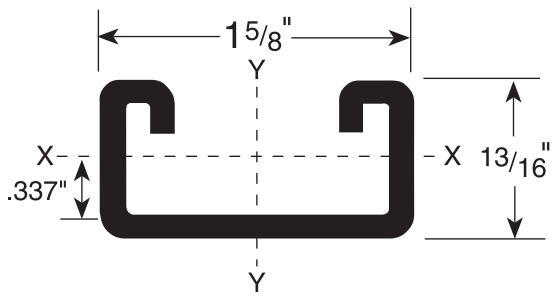
***** = KL/R>200

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.

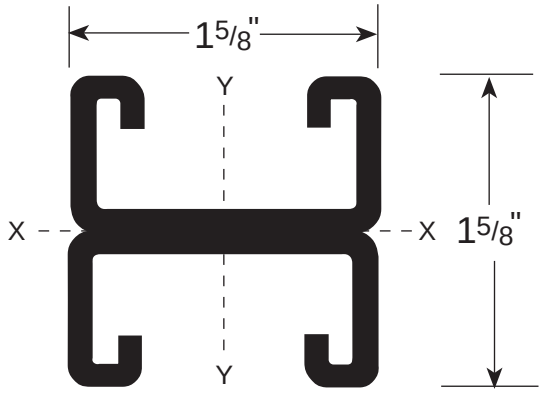
FS-520 • 13/16" CHANNEL • 12 Gauge

SECTION PROPERTIES			X-X AXIS			Y-Y AXIS		
CHNL P/N	WT/FT LBS.	AREA SQ. IN.	Ix in^4	Sx in^3	Rx in	Iy in^4	Sy in^3	Ry in
FS-520	1.32	.375	.030	.062	.282	.140	.172	.600
FS-521	2.64	.750	.145	.180	.435	.280	.345	.600

I = Moment of Inertia **S = Section Modulus** **R = Radius of Gyration**



FS-520



FS-521

CHANNEL FINISH: • PLAIN (PL) • PRE-GALVANIZED (PG) • GREEN (GR) • HOT-DIPPED GALVANIZED (HD)

STANDARD LENGTH: 20 FT. • 10 FT.

ALLOWABLE BEAM LOADS — Span In Inches

CHNL P/N		24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-520	Stress 1/240	530 500	420 320	350 220	300 160	260 125	210 80	175 55	150 40	130 30	120 25	105 20
FS-521	Stress 1/240	1,245* ***	1,190 ***	990 ***	850 790	745 605	595 385	495 270	425 195	370 150	330 120	295 95

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/2" Def. for 120" Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load limited by spot weld shear.
6. *** Load controlled by 25,000 PSI design stress.

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

CHNL P/N	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-520	5,600	4,960	4,280	3,595	2,940	1,895	****	****	****	****	****
FS-521	15,300	14,365	13,300	12,145	10,930	8,495	6,230	4,575	3,505	2,765	****

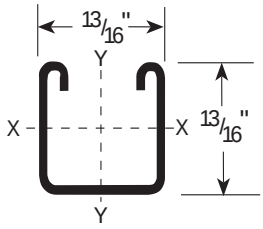
**** = KL/R>200

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.

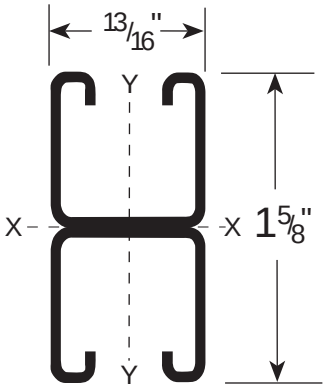
FS-600 • 13/16" CHANNEL • 19 Gauge

SECTION PROPERTIES			X-X AXIS			Y-Y AXIS		
CHNL P/N	WT/FT LBS.	AREA SQ. IN.	Ix in^4	Sx in^3	Rx in	Iy in^4	Sy in^3	Ry in
FS-600	.35	.103	.009	.018	.289	.009	.028	.332
FS-601	.70	.206	.042	.051	.450	.042	.056	.332

I = Moment of Inertia **S = Section Modulus** **R = Radius of Gyration**



FS-600



FS-601

CHANNEL FINISH: • **PLAIN (PL)** • **GREEN (GR)**

STANDARD LENGTH: **10 FT.**

ALLOWABLE BEAM LOADS — Span In Inches

CHNL P/N		12"	18"	24"	30"	36"	42"	48"	60"	72"
FS-600	Stress 1/240	330 ***	220 ***	165 150	135 95	110 65	95 50	85 40	65 25	55 15
FS-601	Stress 1/240	405* ***	405* ***	405* ***	345 ***	285 ***	245 230	215 175	170 110	145 80

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/2" Def. for 120" Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load limited by spot weld shear.
6. *** Load controlled by 25,000 PSI design stress.

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

CHNL P/N	12"	18"	24"	30"	36"	42"	48"	60"	72"
FS-600	1,745	1,365	1,025	755	590	485	415	320	*****
FS-601	4,180	3,955	3,675	3,325	2,935	2,540	2,145	1,440	1,000

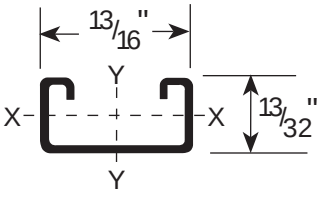
***** = KL/R>200

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.

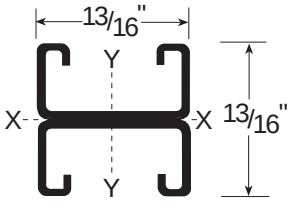
FS-700 • 13/32" CHANNEL • 19 Gauge

SECTION PROPERTIES			X-X AXIS			Y-Y AXIS		
CHNL P/N	WT/FT LBS.	AREA SQ. IN.	Ix in^4	Sx in^3	Rx in	Iy in^4	Sy in^3	Ry in
FS-700	.24	.071	.002	.006	.144	.007	.016	.304
FS-701	.48	.141	.007	.016	.215	.013	.032	.304

I = Moment of Inertia **S = Section Modulus** **R = Radius of Gyration**



FS-700



FS-701

CHANNEL FINISH: • **PLAIN (PL)** • **GREEN (GR)**

STANDARD LENGTH: **10 FT.**

ALLOWABLE BEAM LOADS — Span In Inches

CHNL P/N		12"	18"	24"	30"	36"	42"	48"	60"	72"
FS-700	Stress 1/240	140	95	70	55	45	40	35	30	25
		135	60	35	20	15	10	8	5	5
FS-701	Stress 1/240	200*	190	145	115	95	80	70	55	50
		***	***	115	75	50	40	30	20	15

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/2" Def. for 120" Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.
5. * Load limited by spot weld shear.
6. *** Load controlled by 25,000 PSI design stress.

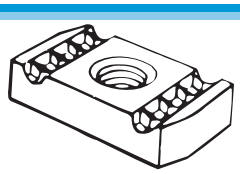
ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

CHNL P/N	12"	18"	24"	30"	36"	42"	48"	60"	72"
FS-700	1,290	975	655	420	290	*****	*****	*****	*****
FS-701	2,930	2,610	2,185	1,740	1,320	970	745	475	*****

***** = KL/R>200

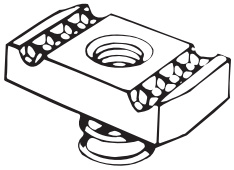
1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.

CHANNEL NUTS



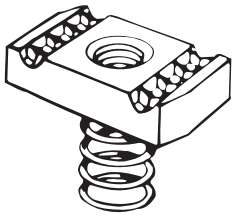
NO SPRING

Cat. No.	Size	Thread	Thickness	Wt. Lbs./C	Cat. No.	Size	Thread	Thickness	Wt. Lbs./C
FS-0832NS	#8	32	1/4"	6.5	FS-1/2NS	1/2"	13	1/2"	10.6
FS-1032NS	#10	32	1/4"	6.5	FS-5/8NS	5/8"	11	7/16"	14.0
FS-1024NS	#10	24	1/4"	6.5	FS-3/4NS	3/4"	10	7/16"	14.0
FS-1/4NS	1/4"	20	1/4"	6.5	FS-3/8NSS	3/8"	16	1/4"	6.5
FS-5/16NS	5/16"	18	3/8"	8.7	FS-1/2NSS	1/2"	13	3/8"	8.5
FS-3/8NS	3/8"	16	3/8"	9.0	FS-5/8NSS	5/8"	11	3/8"	14.0



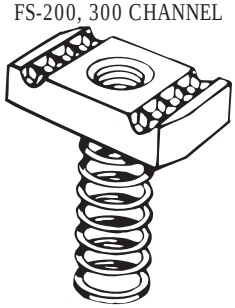
SHORT SPRING
FS-400, 450, 500, 520 CHANNEL

Cat. No.	Size	Thread	Thickness	Wt. Lbs./C	Cat. No.	Size	Thread	Thickness	Wt. Lbs./C
FS-0832SS	#8	32	1/4"	7.5	FS-5/16SS	5/16"	18	3/8"	8.7
FS-1032SS	#10	32	1/4"	7.5	FS-3/8SS	3/8"	16	3/8"	9.0
FS-1024SS	#10	24	1/4"	7.5	FS-1/2SS	1/2"	13	3/8"	8.2
FS-1/4SS	1/4"	20	1/4"	7.5	FS-5/8SS	5/8"	11	3/8"	14.0



REGULAR SPRING
FS-200, 300 CHANNEL

Cat. No.	Size	Thread	Thickness	Wt. Lbs./C	Cat. No.	Size	Thread	Thickness	Wt. Lbs./C
FS-0832RS	#8	32	1/4"	7.5	FS-3/8RS	3/8"	16	3/8"	10.0
FS-1032RS	#10	32	1/4"	7.5	FS-1/2RS	1/2"	13	1/2"	11.5
FS-1024RS	#10	24	1/4"	7.5	FS-5/8RS	5/8"	11	7/16"	15.0
FS-1/4RS	1/4"	20	1/4"	7.5	FS-3/4RS	3/4"	10	7/16"	15.0
FS-5/16RS	5/16"	18	3/8"	9.7	FS-7/8RS	7/8"	9	7/16"	15.0



LONG SPRING
FS-100, 150 CHANNEL

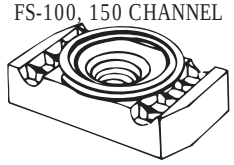
Cat. No.	Size	Thread	Thickness	Wt. Lbs./C
FS-1/4LS	1/4"	20	1/4"	7.5
FS-3/8LS	3/8"	16	3/8"	10.0
FS-1/2LS	1/2"	13	1/2"	12.0
FS-5/8LS	5/8"	11	7/16"	16.0
FS-3/4LS	3/4"	10	7/16"	15.5

Allowable Pull-Out & Slip Loads

1/2" Thick Nuts in 12 Ga. Channel		1/2" Thick Nuts in 14 Ga. Channel	
Resistance to PULL-OUT	Resistance to SLIP	Resistance to PULL-OUT	Resistance to SLIP
2,000 Lbs.	1,500 Lbs.	1,400 Lbs.	1,000 Lbs.

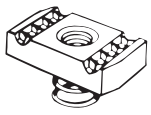
DESIGN BOLT TORQUE

Bolt Size	Foot Pounds
1/4"-20	6
5/16"-18	11
3/8"-16	19
1/2"-13	50
5/8"-11	100
3/4"-10	125



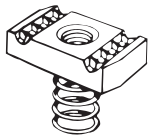
TOP SPRING

Cat. No.	Size	Thread	Thickness	Wt. Lbs./C	Cat. No.	Size	Thread	Thickness	Wt. Lbs./C
FS-0832TG	#8	32	1/4"	7.5	FS-5/16TG	5/16"	18	3/8"	9.7
FS-1032TG	#10	32	1/4"	7.5	FS-3/8TG	3/8"	16	3/8"	10.0
FS-1024TG	#10	24	1/4"	7.5	FS-1/2TG	1/2"	13	1/2"	11.5
FS-1/4TG	1/4"	20	1/4"	7.5	FS-1/2TGS	1/2"	13	3/8"	8.2



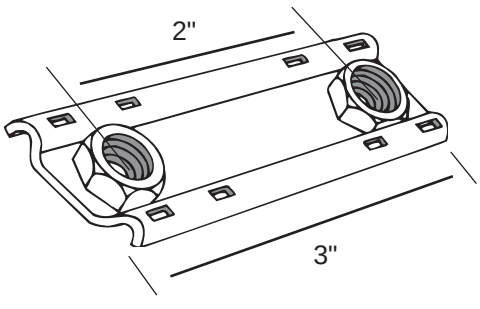
MINI NUT
FS-700 CHANNEL

Cat. No.	Size	Thread	Thickness	Wt. Lbs./C
FS-7-0836	#8	36	.150"	1.0
FS-7-0832	#8	32	.150"	1.0
FS-7-1032	#10	32	.150"	1.0
FS-7-1024	#10	24	.150"	1.0
FS-7-1/4	1/4"	20	.150"	1.0



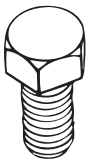
MINI NUT
FS-600 CHANNEL

Cat. No.	Size	Thread	Thickness	Wt. Lbs./C
FS-6-0836	#8	36	.150"	1.0
FS-6-0832	#8	32	.150"	1.0
FS-6-1032	#10	32	.150"	1.0
FS-6-1024	#10	24	.150"	1.0
FS-6-1/4	1/4"	20	.150"	1.0



FS-2626 17#/Cpc
DOUBLE CONVEYOR ADJUSTING NUT
3/8-16 TAP SIZE

ALSO AVAILABLE IN METRIC SIZES



HHCS

Item	Diameter	Length	Wt./C
FS-7400	1/4"	1/2"	1.0
FS-7401	1/4"	3/4"	1.3
FS-7402	1/4"	1"	1.7
FS-7403	3/8"	3/4"	4.0
FS-7404	3/8"	1"	4.5
FS-7405	3/8"	1-1/4"	5.3
FS-7406	3/8"	1-1/2"	6.1
FS-7407	3/8"	2"	7.6
FS-7408	3/8"	2-1/4"	8.5
FS-7409B	1/2"	3/4"	8.9
FS-7409A	1/2"	7/8"	9.0
FS-7409	1/2"	1"	9.1
FS-7410	1/2"	1-1/4"	10.0
FS-7411	1/2"	1-1/2"	11.6
FS-7412	1/2"	1-3/4"	13.2
FS-7413	1/2"	2"	14.7
FS-7414	1/2"	2-1/4"	16.0
FS-7415	1/2"	2-1/2"	17.5

FHMS

Item	Diameter	Length	Wt./C
FS-7420	1/4"	5/8"	1.2
FS-7421	5/16"	1"	2.6
FS-7422	3/8"	2"	6.5
FS-7423	3/8"	2-1/4"	7.1
FS-7424	3/8"	2-1/2"	7.7

RHMS

Item	Diameter	Length	Wt./C
FS-7471A	1/4"	3/4"	1.2
FS-7471	1/4"	1"	1.5
FS-7472	1/4"	1-1/4"	1.8
FS-7473	5/16"	1"	2.6
FS-7474	5/16"	1-1/4"	3.0
FS-7475	5/16"	1-1/2"	3.6
FS-7476	3/8"	1"	4.1
FS-7477	3/8"	1-1/4"	4.7
FS-7478	3/8"	1-1/2"	5.3
FS-7479	3/8"	2-1/2"	7.7

LW

Item	Size	Wt./C
FS-7430	1/4"	.3
FS-7431	3/8"	.7
FS-7432	1/2"	1.5
FS-7433	5/8"	2.6
FS-7434	3/4"	4.0
FS-7435	7/8"	6.0

FW

Item	Size	Wt./C
FS-7440	1/4"	.7
FS-7441	3/8"	1.5
FS-7442	1/2"	3.5
FS-7443	5/8"	7.7
FS-7444	3/4"	11.0
FS-7446	7/8"	15.3

FDW

Item	Size	Wt./C
FS-7450	1/4"	3.0
FS-7451	3/8"	3.0
FS-7452	1/2"	5.0

HN

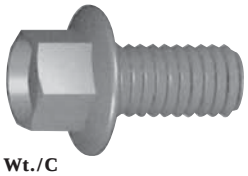
Item	Size	Wt./C
FS-7460	1/4"	.6
FS-7461	5/16"	1.2
FS-7462	3/8"	1.6
FS-7463	1/2"	4.8
FS-7464	5/8"	7.3
FS-7465	3/4"	12.0
FS-7466	7/8"	19.0

SQN

Item	Size	Wt./C
FS-7480	1/4"	.9
FS-7481	5/16"	1.6
FS-7482	3/8"	2.7
FS-7483	1/2"	5.8

STANDARD FINISH = ELECTRO-GALVANIZED

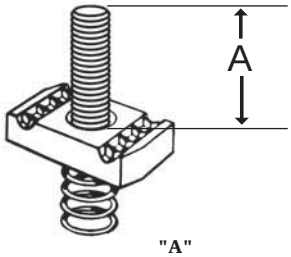
WHIZLOCK BOLTS



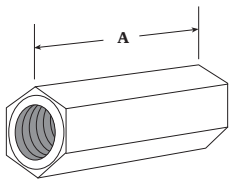
Item	Diameter	Length	Wt./C
FS-7496	1/2"	1-1/2"	12
FS-7497	1/2"	2"	14

Available in electro-galvanized (E/G) or yellow-cadmium (YLCD) finish

STUD NUTS



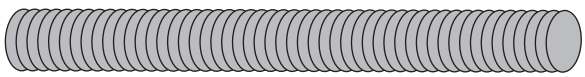
Cat. No.	Size	Thread	"A" Length	Wt. Lbs./C
FS-1/4-1SN	1/4"	20	7/8"	9
FS-1/4-2SN	1/4"	20	1-1/8"	9
FS-1/4-3SN	1/4"	20	1-3/8"	9
FS-3/8-1SN	3/8"	16	7/8"	13
FS-3/8-2SN	3/8"	16	1-1/8"	13
FS-3/8-3SN	3/8"	16	1-3/8"	14
FS-3/8-4SN	3/8"	16	1-5/8"	15
FS-3/8-5SN	3/8"	16	1-7/8"	16
FS-3/8-6SN	3/8"	16	2-1/8"	16
FS-1/2-2SN	1/2"	13	1-1/8"	15
FS-1/2-3SN	1/2"	13	1-3/8"	16
FS-1/2-4SN	1/2"	13	1-5/8"	17
FS-1/2-5SN	1/2"	13	1-7/8"	18
FS-1/2-6SN	1/2"	13	2-1/8"	19
FS-5/8-2SN	5/8"	11	1-1/8"	22
FS-5/8-3SN	5/8"	11	1-3/8"	23



FS-7134/38 ROD COUPLERS

Cat. No.	Hole Size	Thread	"A" Length	Wt. Lbs./C
FS-7134	1/4"	20	7/8"	2
FS-7134A	5/16"	18	7/8"	2
FS-7135	3/8"	16	1-3/4"	11
FS-7136	1/2"	13	1-3/4"	11
FS-7137	5/8"	11	2-1/8"	16
FS-7138	3/4"	10	2-1/4"	28

ALL-THREAD

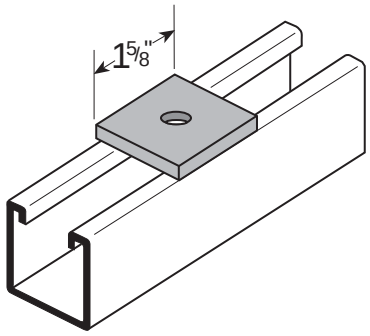


LENGTH = 3', 6', 10', OR 12'
FINISH = ELECTRO-GALVANIZED

Cat. No.	Diameter Size	Thread	Wt. Lbs./C
FS-7124	1/4"	20	12
FS-7125	3/8"	16	30
FS-7126	1/2"	13	52
FS-7127	5/8"	11	85
FS-7128	3/4"	10	123

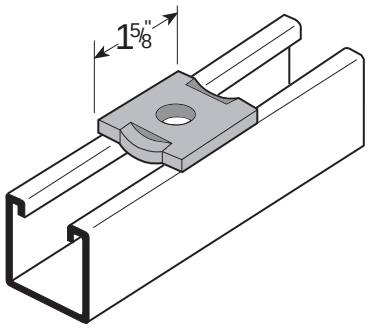
FLAT PLATE FITTINGS

FS-5003 Series
SQUARE WASHER



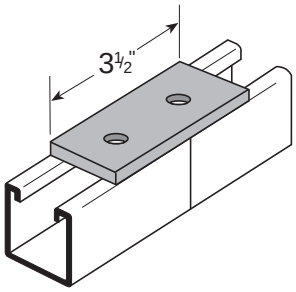
Part No.	Bolt Size	Wt./C
FS-5003-1/4	1/4"	18#
FS-5003-3/8	3/8"	18#
FS-5003-1/2	1/2"	17#
FS-5003-5/8	5/8"	16#
FS-5003-3/4	3/4"	15#

Part No.	Bolt Size	Wt./C
FS-5004-1/4	1/4"	18#
FS-5004-3/8	3/8"	18#
FS-5004-1/2	1/2"	17#
FS-5004-5/8	5/8"	16#
FS-5004-3/4	3/4"	15#



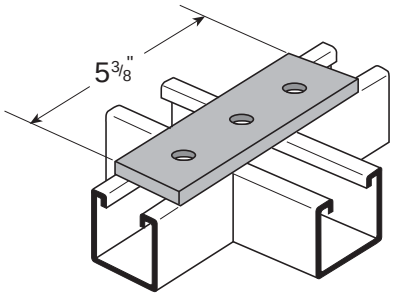
FS-5004 Series
SQUARE WASHER WITH CHANNEL GUIDE

38#/Cpc



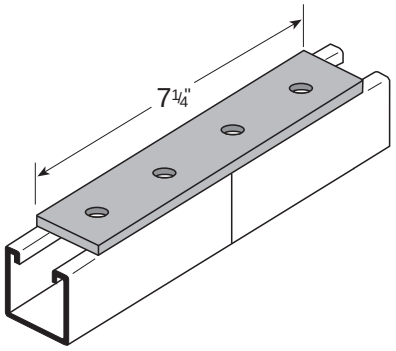
FS-5007
TWO HOLE SPLICE

57#/Cpc



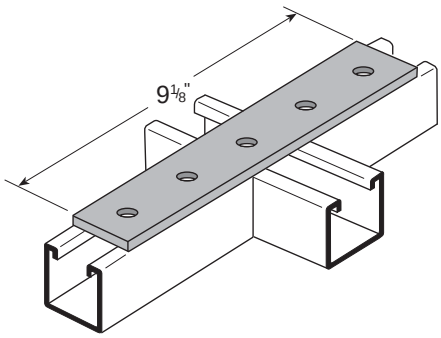
FS-5008
THREE HOLE SPLICE

77#/Cpc



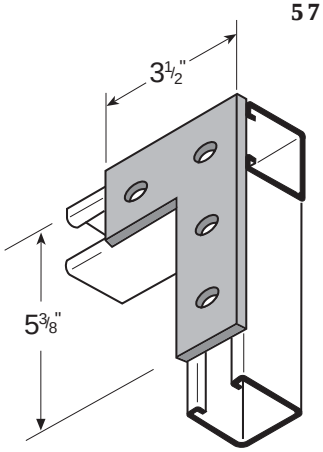
FS-5009
FOUR HOLE SPLICE

95#/Cpc



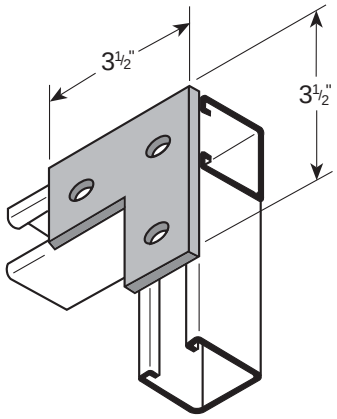
FS-5010
FIVE HOLE SPLICE

57#/Cpc



FS-5020
FOUR HOLE CORNER

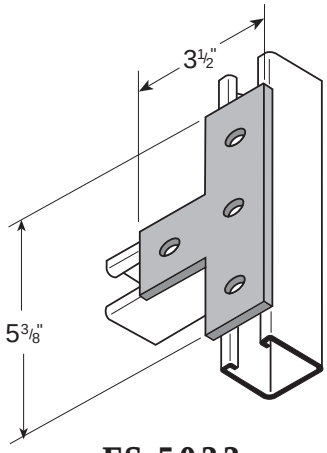
60#/Cpc



FS-5021
THREE HOLE CORNER

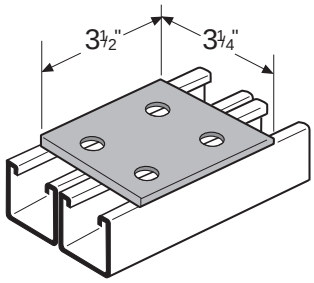
Thickness = 1/4" • Width = 1 5/8" • Hole Diameter = 9/16" • Hole Spacing = 1 7/8" • Edge Distance = 13/16"

70#/Cpc



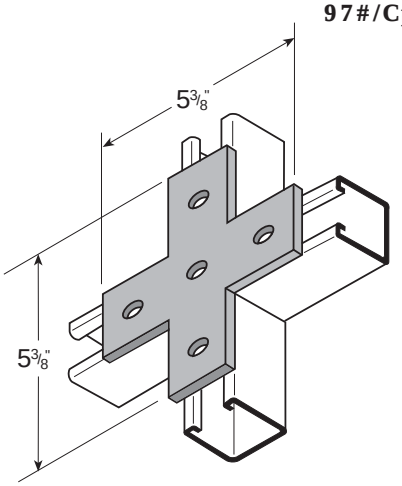
FS-5022
TEE PLATE

76#/Cpc



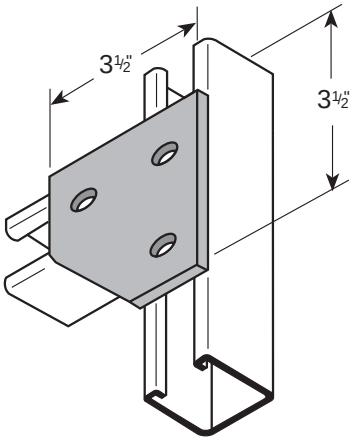
FS-5025
FOUR HOLE SPLICE

97#/Cpc



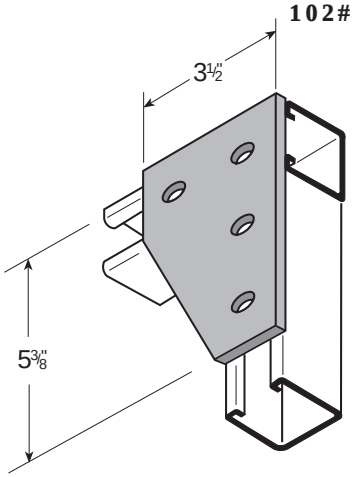
FS-5023
CROSS PLATE

71#/Cpc



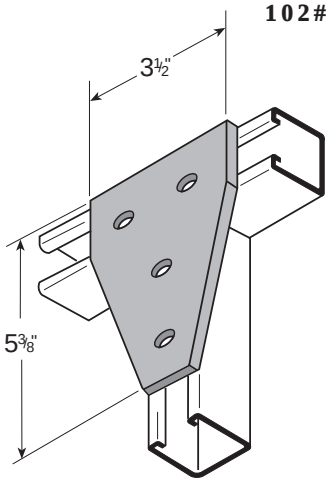
FS-5019
THREE HOLE CORNER GUSSETT

102#/Cpc



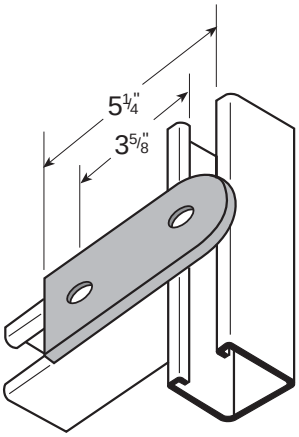
FS-5024
FOUR HOLE CORNER GUSSETT

102#/Cpc



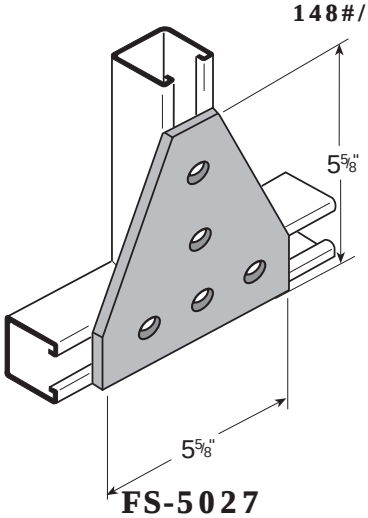
FS-5026
FOUR HOLE TEE GUSSETT

50#/Cpc



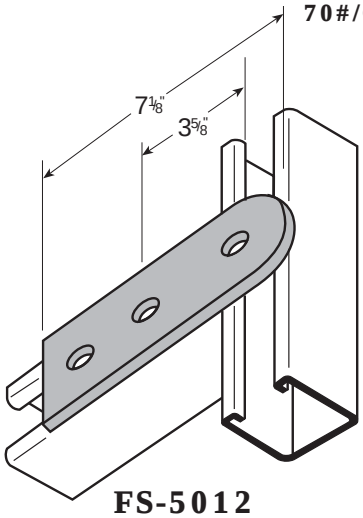
FS-5011
TWO HOLE SWIVEL

148#/Cpc



FS-5027
FIVE HOLE TEE GUSSETT

70#/Cpc

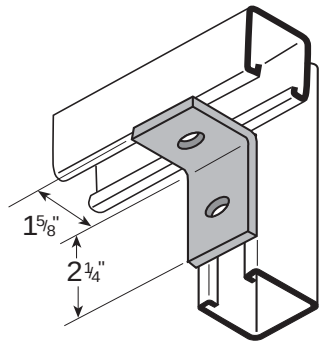


FS-5012
THREE HOLE SWIVEL

Thickness = 1/4" • Width = 1 5/8" • Hole Diameter = 9/16" • Hole Spacing = 1 7/8" • Edge Distance = 13/16"

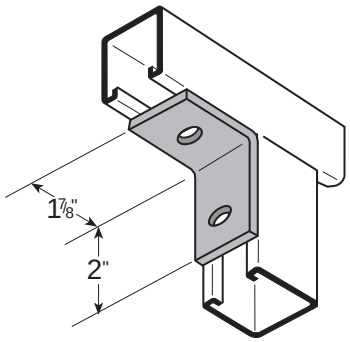
90° ANGLE FITTINGS

38#/Cpc



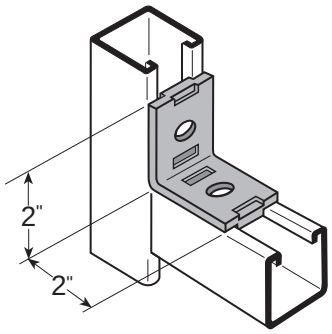
FS-5102
TWO HOLE CORNER

38#/Cpc



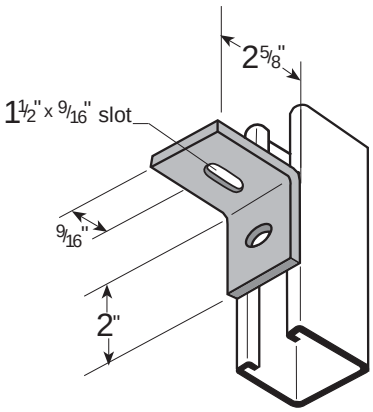
FS-5103
TWO HOLE CORNER

38#/Cpc



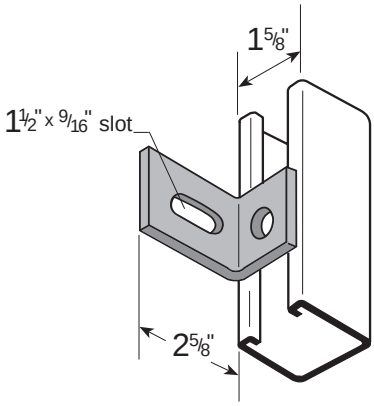
FS-5104
TWO HOLE INDENTED

43#/Cpc

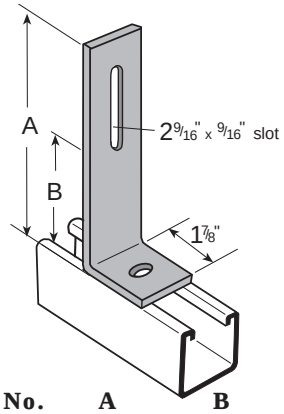


FS-5105
ADJUSTMENT ANGLE

38#/Cpc



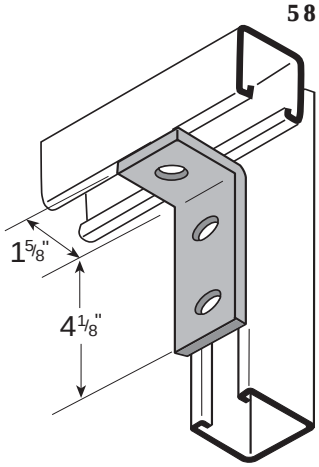
FS-5106
ADJUSTMENT ANGLE



Parts No.	A	B	WT/C
FS-5107	4-7/8"	1-1/4"	65#
FS-5108	6-7/8"	3-1/4"	85#

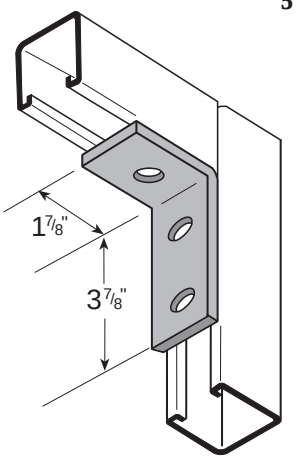
FS-5107 & FS-5108
ADJUSTMENT ANGLE

58#/Cpc



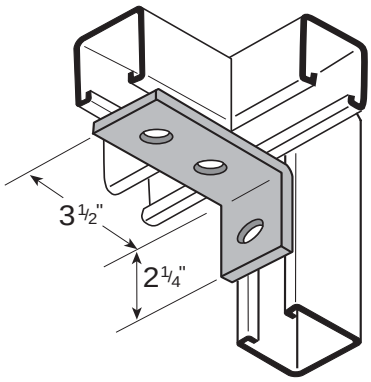
FS-5112
THREE HOLE CORNER

58#/Cpc



FS-5113
THREE HOLE CORNER

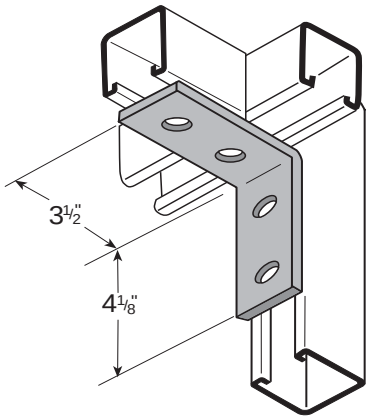
58#/Cpc



FS-5115
THREE HOLE CORNER

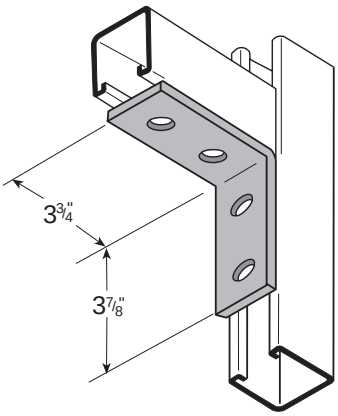
Thickness = 1/4" • Width = 1 5/8" • Hole Diameter = 9/16" • Hole Spacing = 1 7/8" • Edge Distance = 13/16"

78#/Cpc



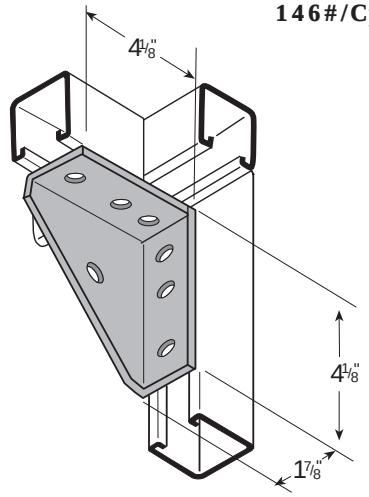
FS-5123
FOUR HOLE CORNER

78#/Cpc



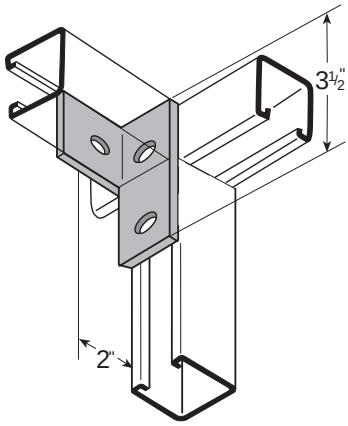
FS-5125
FOUR HOLE CORNER

146#/Cpc



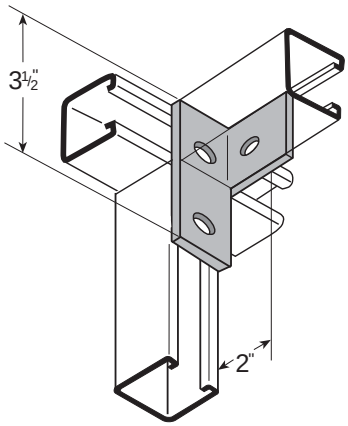
FS-5124
UNIVERSAL CORNER

60#/Cpc



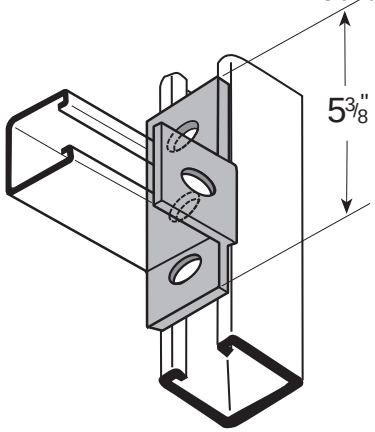
FS-5135
OFFSET TEE ANGLE (LEFT HAND)

60#/Cpc



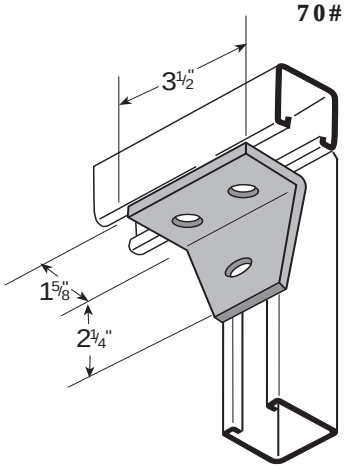
FS-5136
OFFSET TEE ANGLE (RIGHT HAND)

80#/Cpc



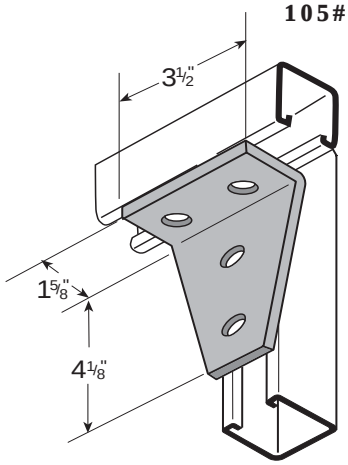
FS-5120
TEE ANGLE

70#/Cpc



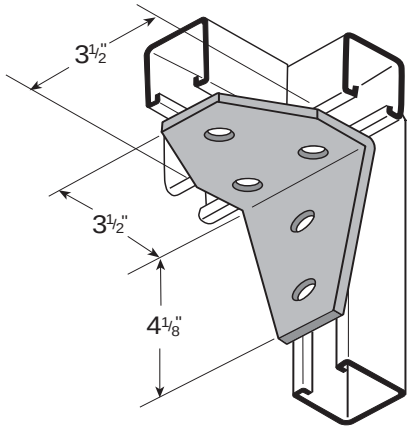
FS-5110
THREE HOLE CONNECTOR

105#/Cpc



FS-5109
FOUR HOLE CONNECTOR

150#/Cpc

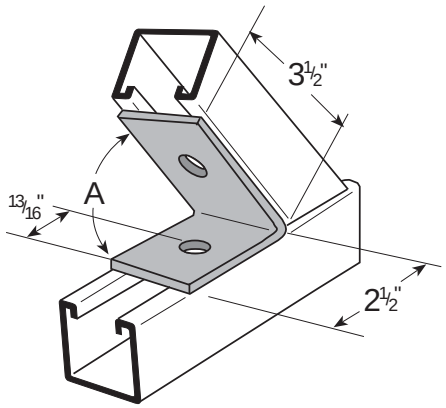


FS-5117
FIVE HOLE CORNER

Thickness = 1/4" • Width = 1 5/8" • Hole Diameter = 9/16" • Hole Spacing = 1 7/8" • Edge Distance = 13/16"

58#/Cpc

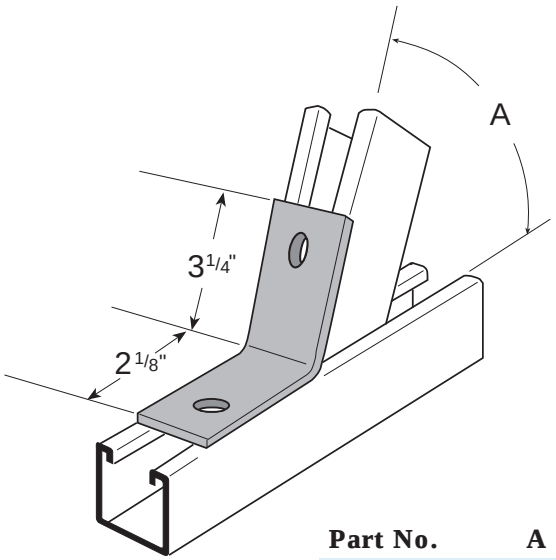
FS-5142 CLOSED
TWO HOLE CLOSED



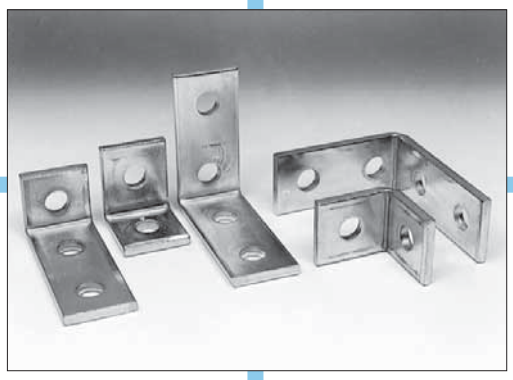
Part No.	A
FS-5142-45	45°
FS-5142-60	60°

57#/Cpc

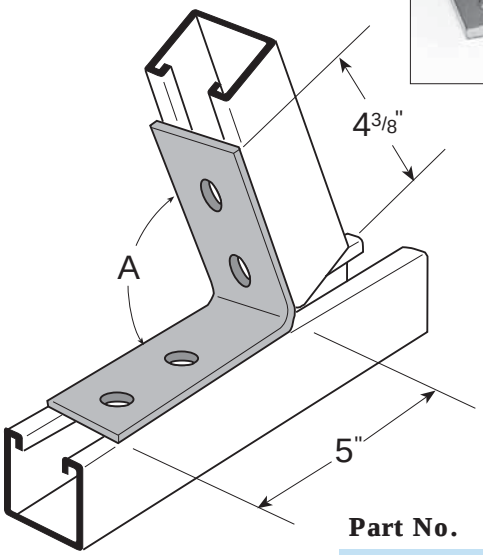
FS-5143 OPEN
TWO HOLE OPEN



Part No.	A
FS-5143-30	30°
FS-5143-45	45°
FS-5143-60	60°



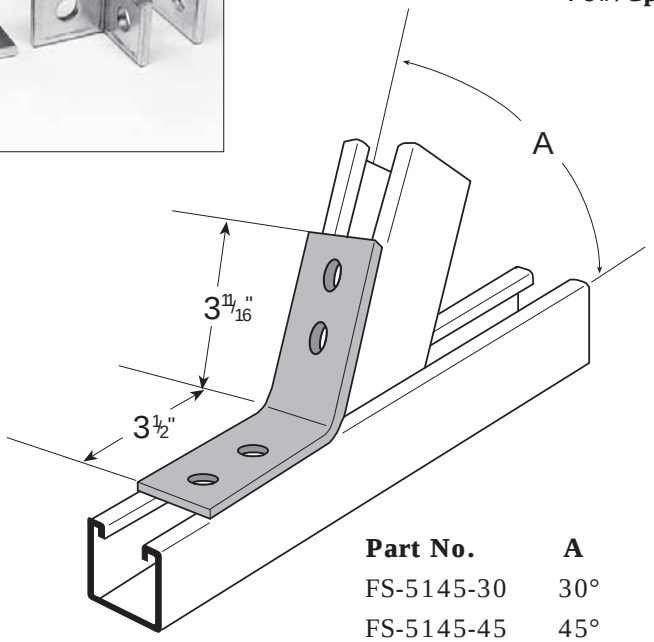
78#/Cpc



Part No.	A
FS-5144-45	45°
FS-5144-60	60°

FS-5144 CLOSED
FOUR HOLE CLOSED

78#/Cpc

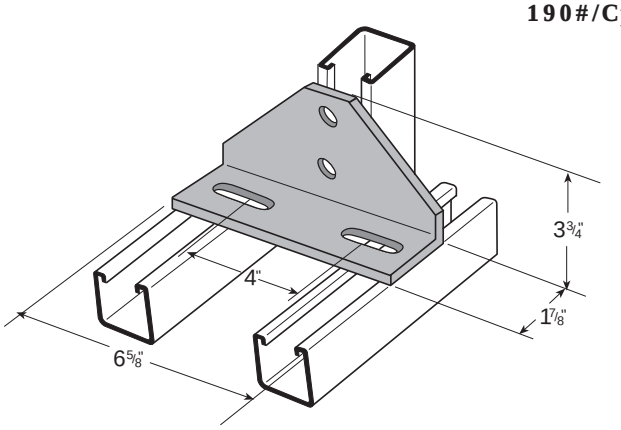


Part No.	A
FS-5145-30	30°
FS-5145-45	45°
FS-5145-60	60°

FS-5145 OPEN
FOUR HOLE OPEN

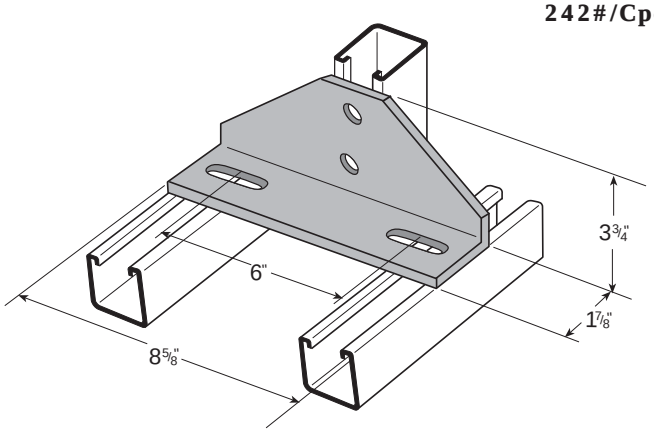
Thickness = 1/4" • Width = 1 5/8" • Hole Diameter = 9/16" • Hole Spacing = 1 7/8" • Edge Distance = 13/16"

190#/Cpc



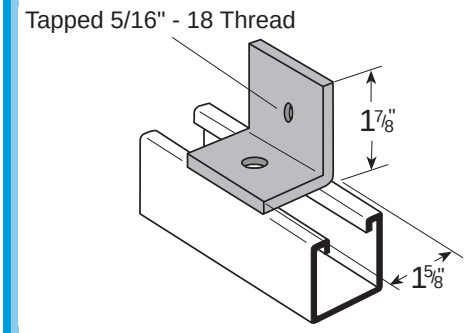
FS-5130
SLOTTED CORNER ANGLE

242#/Cpc



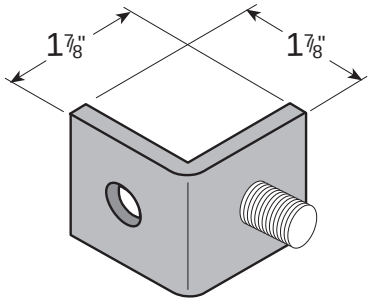
FS-5131
SLOTTED CORNER ANGLE

38#/Cpc



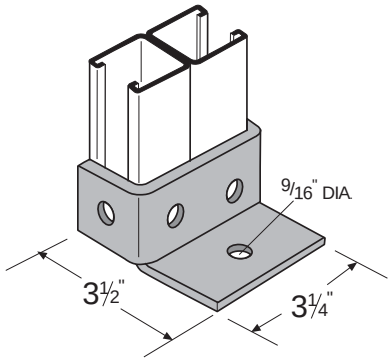
FS-5150
TAPPED CORNER ANGLE

45#/Cpc



FS5151
ANGLE WITH STUD

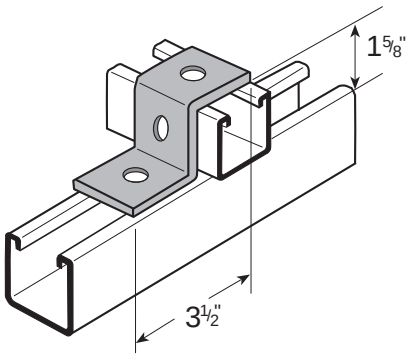
96#/Cpc



FS-5820
POST BASE

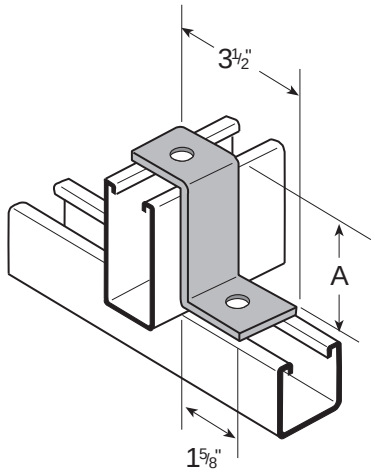
"Z" FITTINGS

51#/Cpc



FS-5212
"Z" FOR FS-200

Part No.	A	Channel	#/Cpc
FS-5209	4-7/8"	FS-151	93
FS-5210	3-1/4"	FS-100 FS-201	70
FS-5211	2-7/16"	FS-150	66
FS-5213	1-3/8"	FS-300	52
FS-5214	1"	FS-400	48
FS-5215	13/16"	FS-500 FS-520	47

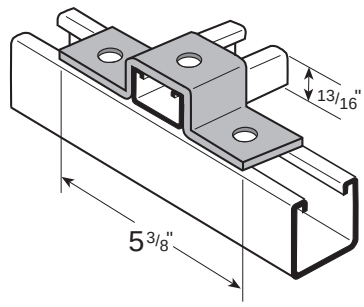


FS-5209 thru FS-5215
"Z" FITTINGS

Thickness = 1/4" • Width = 1 5/8" • Hole Diameter = 9/16" • Hole Spacing = 1 7/8" • Edge Distance = 13/16"

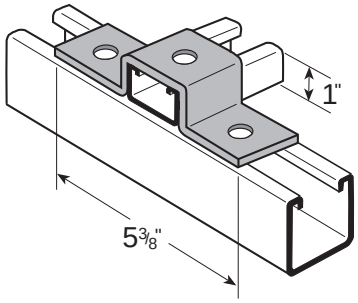
"U" FITTINGS

70#/Cpc



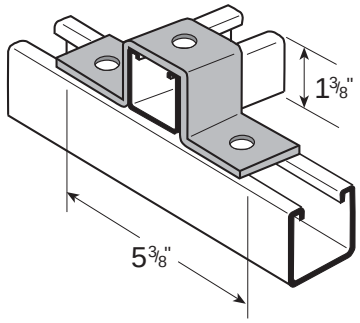
FS-5311-1
"U" FITTING FOR FS-500

75#/Cpc



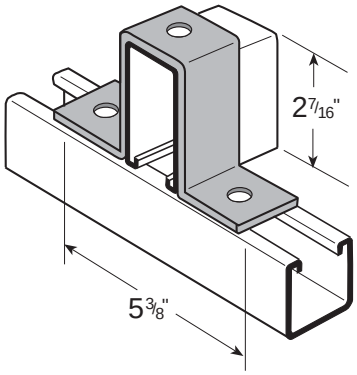
FS-5311-2
"U" FITTING FOR FS-400

85#/Cpc



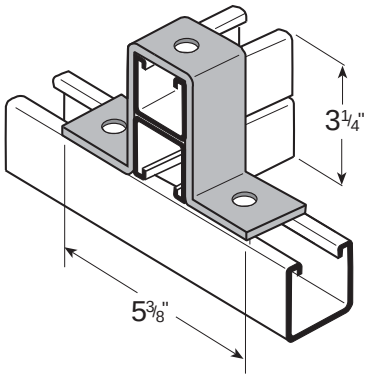
FS-5311-3
"U" FITTING FOR FS-300

110#/Cpc



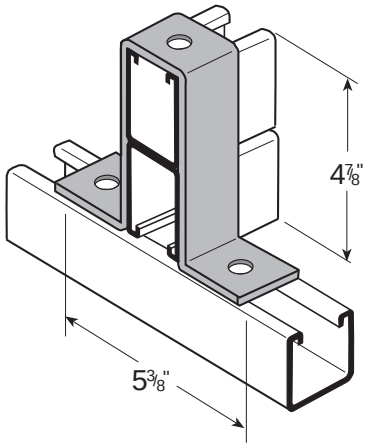
FS-5311-4
"U" FITTING FOR FS-150

128#/Cpc



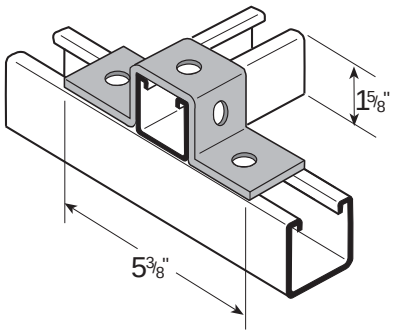
FS-5311-5
"U" FITTING FOR FS-100/201

155#/Cpc



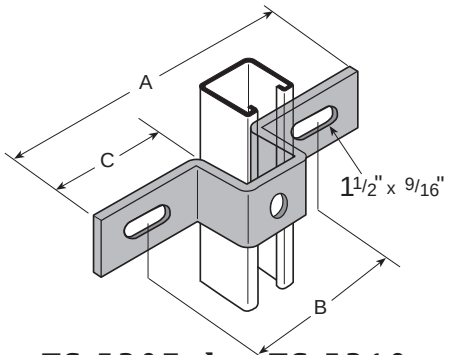
FS-5311-6
"U" FITTING FOR FS-151

88#/Cpc



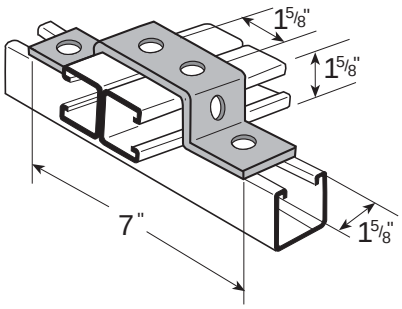
FS-5312
"U" FITTING FOR FS-200

Part No.	A	B	#/Cpc
FS-5307	7-1/4"	4-1/8"	103
FS-5308	8-1/2"	5-3/8"	115
FS-5310	10-3/8"	7-1/4"	135



FS-5307 thru FS-5310
SLOTTED "U" FITTING

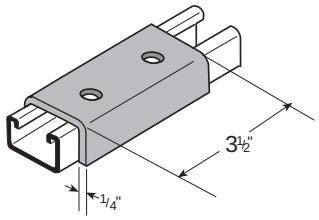
105#/Cpc



FS-5317
SIX HOLE "U" SUPPORT

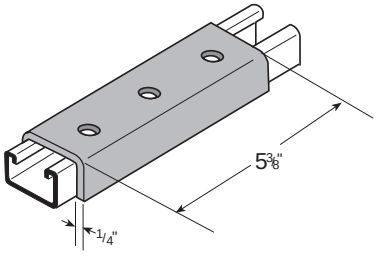
Thickness = 1/4" • Width = 1 5/8" • Hole Diameter = 9/16" • Hole Spacing = 1 7/8" • Edge Distance = 13/16"

84#/Cpc



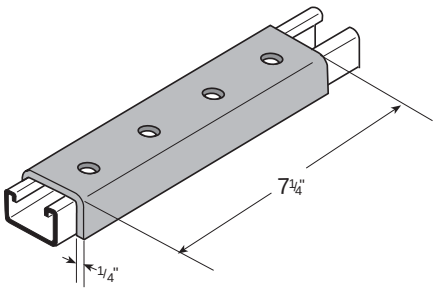
FS-5342
TWO HOLE CLEVIS
SPLICE FOR FS-500

126#/Cpc



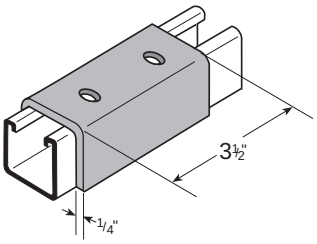
FS-5343
THREE HOLE CLEVIS
SPLICE FOR FS-500

178#/Cpc



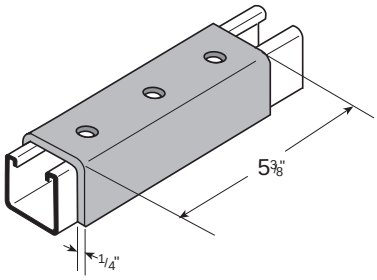
FS-5344
FOUR HOLE CLEVIS
SPLICE FOR FS-500

122#/Cpc



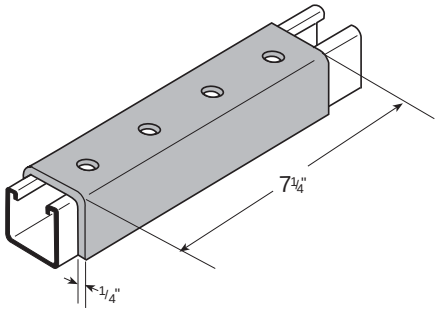
FS-5352
TWO HOLE CLEVIS
SPLICE FOR FS-200

196#/Cpc

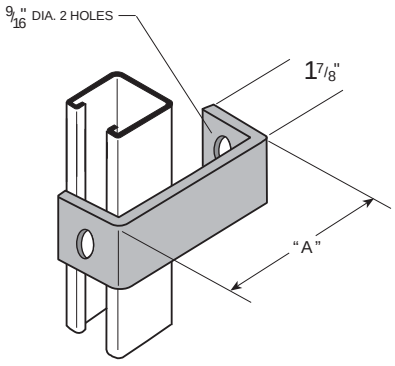


FS-5353
THREE HOLE CLEVIS
SPLICE FOR FS-200

265#/Cpc



FS-5354
FOUR HOLE CLEVIS
SPLICE FOR FS-200

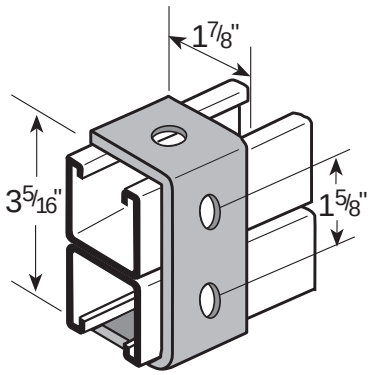


FS-5324 SERIES
TWO HOLE CLEVIS

Part No.	A	#Cpc
FS-5324-4	4"	89
FS-5324-5	5"	93
FS-5324-6	6"	106
FS-5324-7	7"	118
FS-5324-8	8"	132

"A" = Outside Dimension

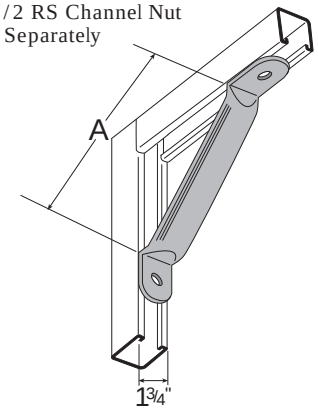
76#/Cpc



FS-5325
FOUR HOLE CLEVIS

Thickness = 1/4" • Width = 1 5/8" • Hole Diameter = 9/16" • Hole Spacing = 1 7/8" • Edge Distance = 13/16"

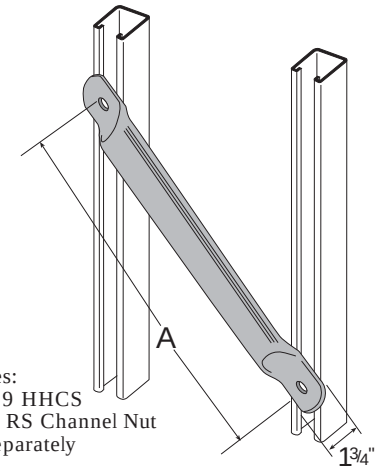
Requires:
FS-7409 HHCS
FS-1/2 RS Channel Nut
Sold Separately



Part No.	A	#Cpc
FS-5460-18	18"	115#
FS-5460-24	24"	150#
FS-5460-30	30"	180#
FS-5460-36	36"	215#

FS-5460 Series
TWO HOLE 45 TUBING KNEE BRACE

Part No.	A	#Cpc
FS-5461-36	36"	205#
FS-5461-42	42"	235#
FS-5461-48	48"	270#
FS-5461-54	54"	300#
FS-5461-60	60"	335#

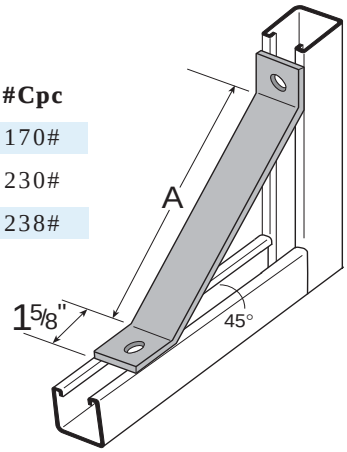


Requires:
FS-7409 HHCS
FS-1/2 RS Channel Nut
Sold Separately

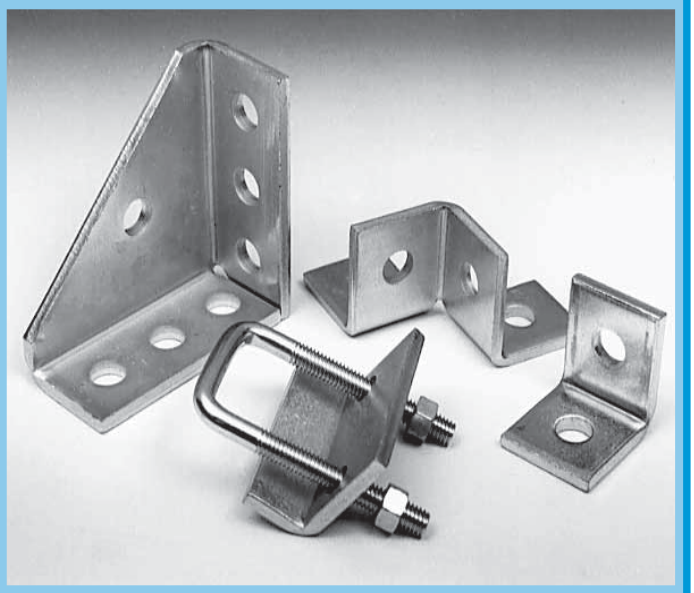
FS-5461 Series
TWO HOLE STRAIGHT TUBING BRACE

Requires:
FS-7409 HHCS
FS-1/2 RS Channel Nut
Sold Separately

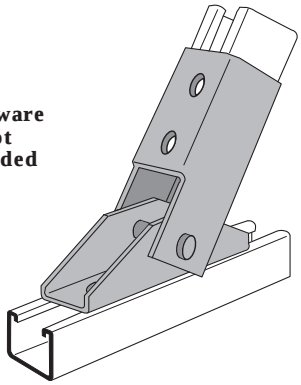
Part No.	A	#Cpc
FS-5472-12	12"	170#
FS-5472-16	16"	230#
FS-5472-18	18"	238#



FS-5472 Series
CORNER BRACE



Hardware Not Included

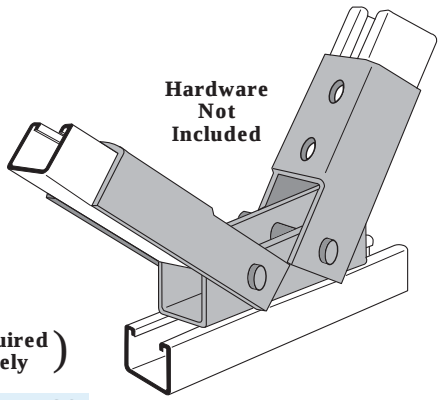


FS-5481 (Hardware Required Sold Separately)

(1) FS-7415D	1/2 x 2-3/4 HHCS
(1) FS-7463	1/2" HN

FS-5481 305#/Cpc
SINGLE ADJUSTABLE CHANNEL BRACE

Hardware Not Included



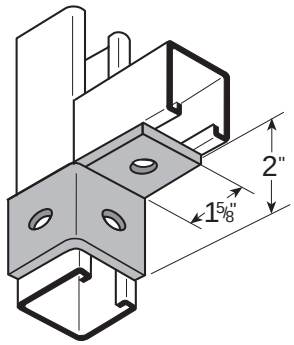
FS-5482 (Hardware Required Sold Separately)

(2) FS-7415D	1/2 x 2-3/4 HHCS
(2) FS-7463	1/2" HN

FS-5482 495#/Cpc
DOUBLE ADJUSTABLE CHANNEL BRACE

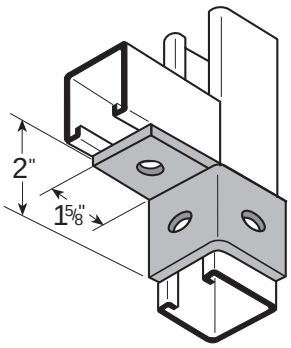
Tube Braces = 1" O.D. 14 Gauge • FS-5472, 5481 & 5482 Thickness = 1/4"

54#/Cpc



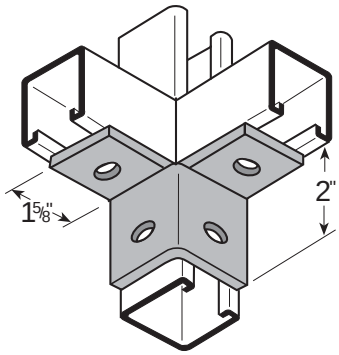
FS-5510
THREE-HOLE CORNER CONNECTION (RIGHT-HAND)

54#/Cpc



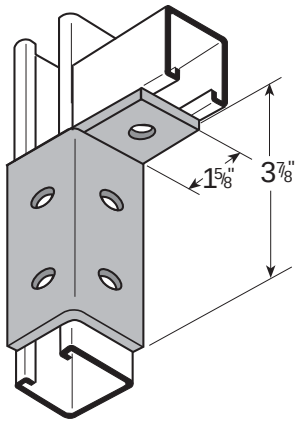
FS-5511
THREE-HOLE CORNER CONNECTION (LEFT-HAND)

78#/Cpc



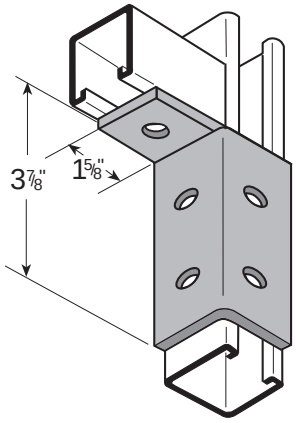
FS-5512
FOUR-HOLE 2-WAY CORNER CONNECTION

100#/Cpc



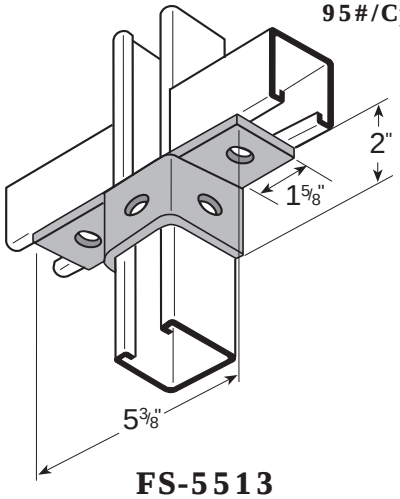
FS-5516
FIVE-HOLE CORNER CONNECTION (RIGHT-HAND)

100#/Cpc



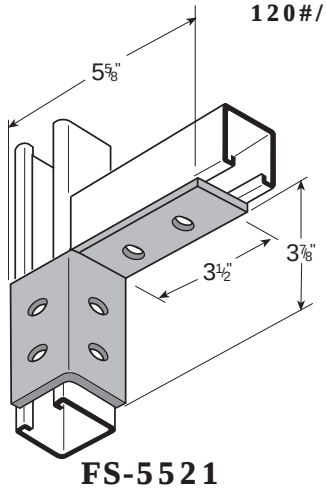
FS-5517
FIVE-HOLE CORNER CONNECTION (LEFT-HAND)

95#/Cpc



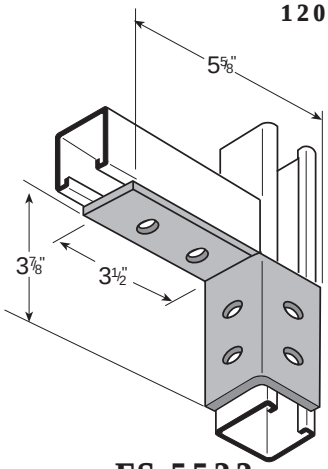
FS-5513
FIVE-HOLE 2-WAY WING CONNECTION

120#/Cpc



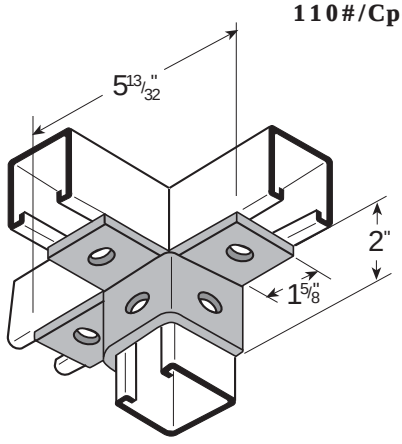
FS-5521
SIX-HOLE CORNER CONNECTION (RIGHT-HAND)

120#/Cpc



FS-5522
SIX-HOLE CORNER CONNECTION (LEFT-HAND)

110#/Cpc

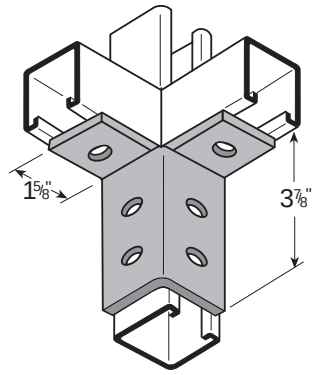


FS-5514
SIX-HOLE 3-WAY WING CONNECTION

Thickness = 1/4" • Width = 1 5/8" • Hole Diameter = 9/16" • Hole Spacing = 1 7/8" • Edge Distance = 13/16"

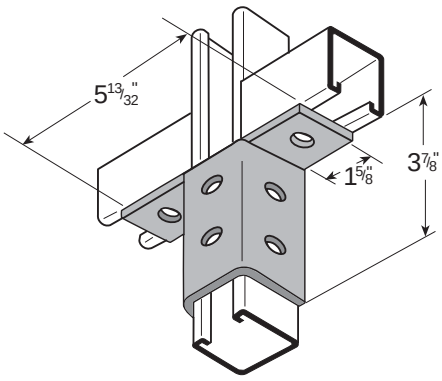
WING FITTINGS

110#/Cpc



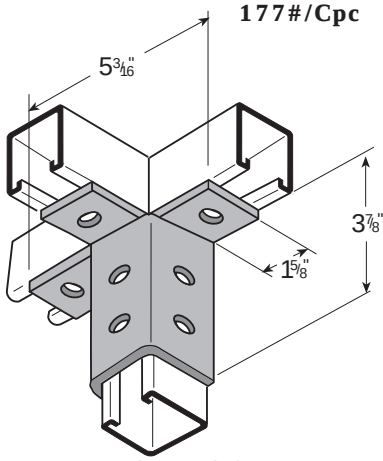
FS-5518
SIX-HOLE 2-WAY
CORNER CONNECTION

150#/Cpc



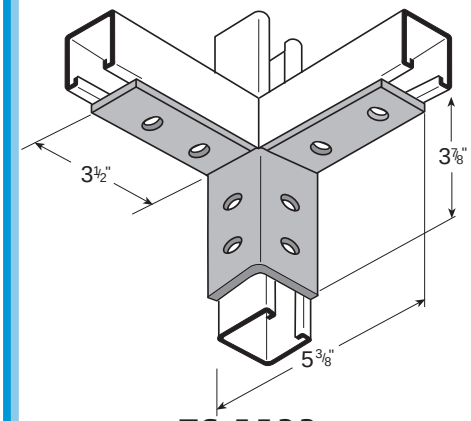
FS-5519
EIGHT-HOLE 2-WAY
WING CONNECTION

177#/Cpc



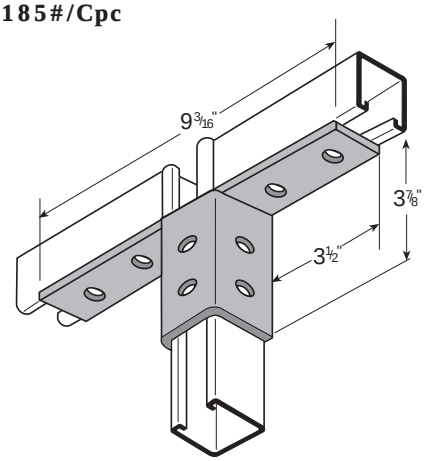
FS-5520
NINE-HOLE 3-WAY
CORNER CONNECTION

152#/Cpc



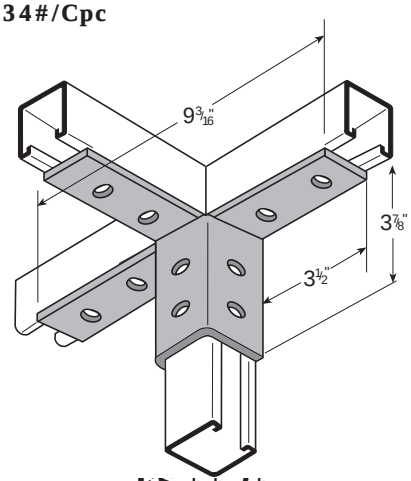
FS-5523
EIGHT-HOLE 2-WAY
CORNER CONNECTION

185#/Cpc



FS-5524
TEN-HOLE 2-WAY
WING CONNECTION

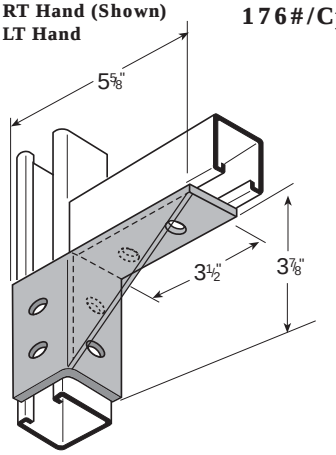
234#/Cpc



FS-5525
TWELVE-HOLE 3-WAY
CORNER CONNECTION

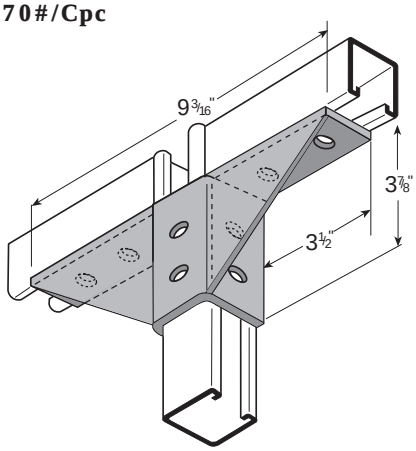
FS-5526 RT Hand (Shown)
FS-5527 LT Hand

176#/Cpc



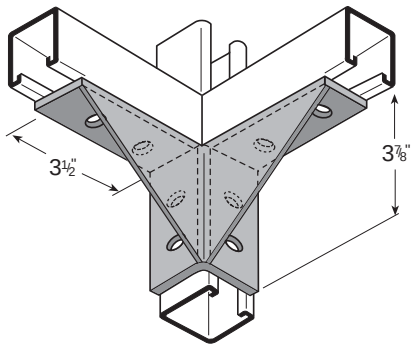
FS-5526 & FS-5527
SIX-HOLE CORNER
GUSSET CONNECTION

270#/Cpc



FS-5528
TEN-HOLE 2-WAY
WING GUSSET CONNECTION

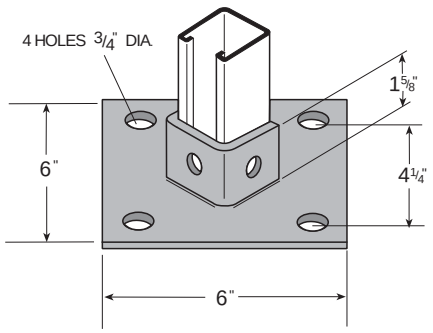
215#/Cpc



FS-5529
EIGHT-HOLE 2-WAY
CORNER GUSSET CONNECTION

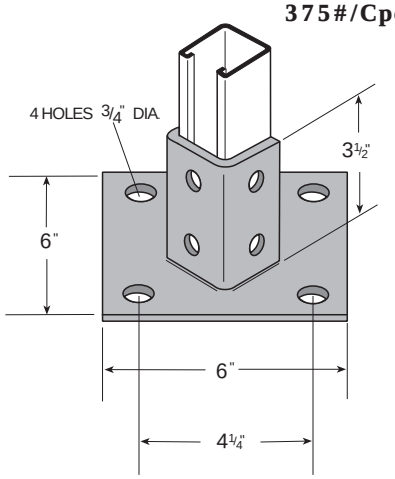
Thickness = 1/4" • Width = 1 5/8" • Hole Diameter = 9/16" • Hole Spacing = 1 7/8" • Edge Distance = 13/16"

305#/Cpc



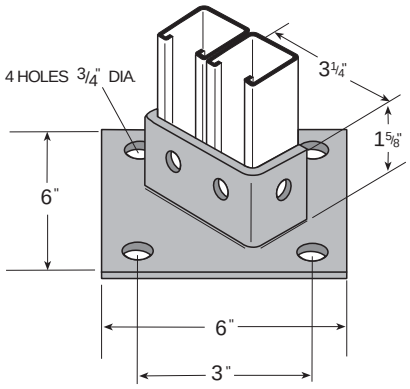
FS-5813
POST BASE

375#/Cpc



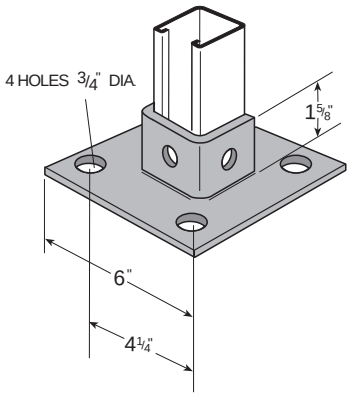
FS-5814
POST BASE

330#/Cpc



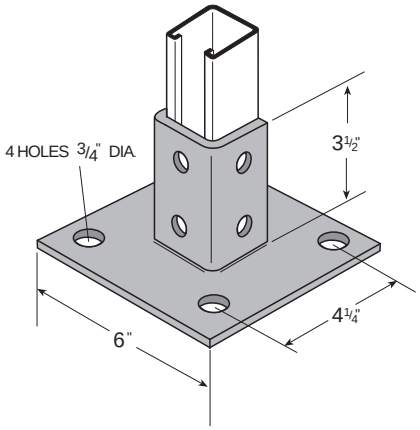
FS-5815
POST BASE

305#/Cpc



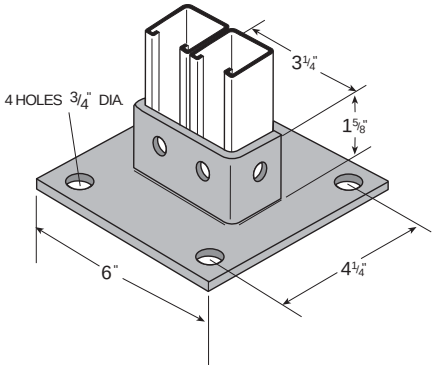
FS-5813SQ
POST BASE

375#/Cpc



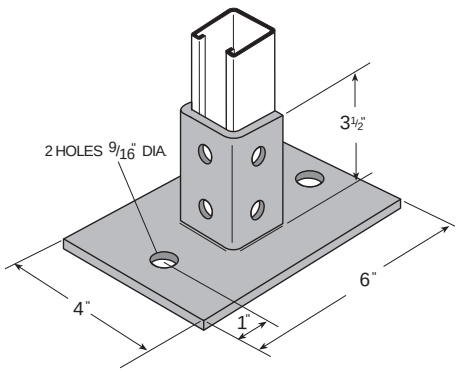
FS-5814SQ
POST BASE

330#/Cpc



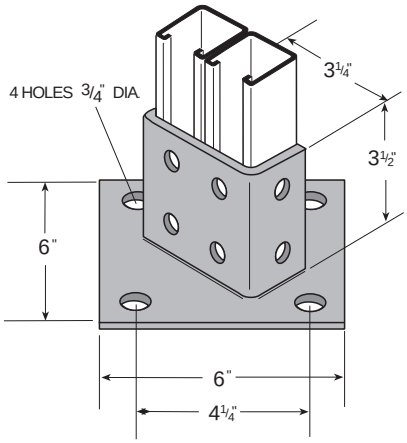
FS-5815SQ
POST BASE

285#/Cpc



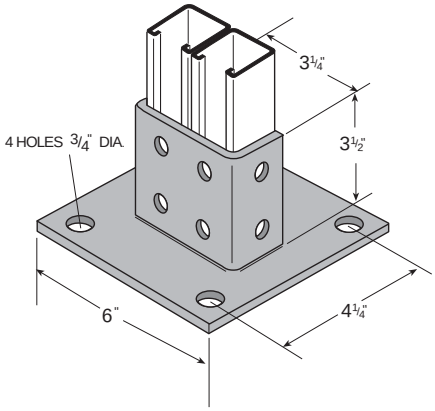
FS-5810
POST BASE

405#/Cpc



FS-5816
POST BASE

405#/Cpc

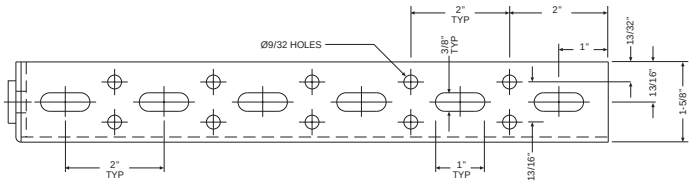


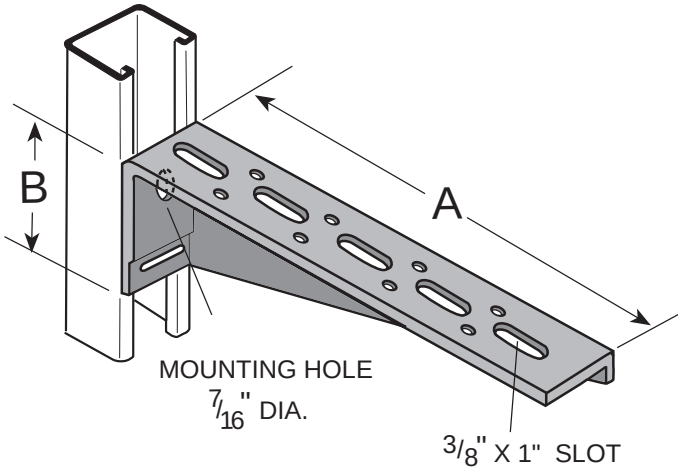
FS-5816SQ
POST BASE

Thickness = 1/4" • Typical Hole Diameter = 9/16" unless noted

SHELF BRACKETS

Dim Scale





# of Slots = A/2
# of Rows of Holes = (A/2) – 1

FS-5600 Series
SHELF BRACKETS

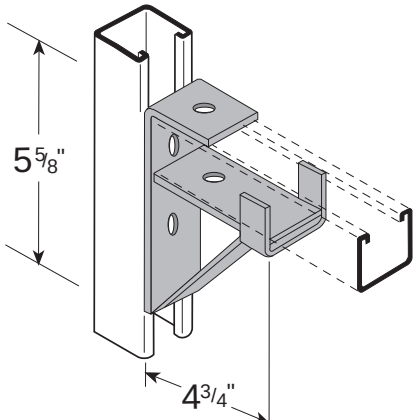
FS-5600-R	FS-5600-L	A	B	#/Cpc
FS-5600-6R	FS-5600-6L	6"	1-15/16"	57#
FS-5600-8R	FS-5600-8L	8"	2-7/16"	82#
FS-5600-10R	FS-5600-10L	10"	2-15/16"	105#
FS-5600-12R	FS-5600-12L	12"	3-7/16"	138#
FS-5600-14R	FS-5600-14L	14"	3-15/16"	175#
FS-5600-16R	FS-5600-16L	16"	4-7/16"	180#
FS-5600-18R	FS-5600-18L	18"	4-15/16"	225#
FS-5600-20R	FS-5600-20L	20"	5-7/16"	260#
FS-5600-22R	FS-5600-22L	22"	5-15/16"	325#
FS-5600-24R	FS-5600-24L	24"	6-7/16"	385#
FS-5600-26R	FS-5600-26L	26"	6-15/16"	435#
FS-5600-28R	FS-5600-28L	28"	7-7/16"	488#
FS-5600-30R	FS-5600-30L	30"	7-15/16"	530#

FS-5600-R RIGHT HAND (SHOWN)

UNIFORM DESIGN LOAD = 300#
WITH 12 GA. CHANNEL
SAFETY FACTOR = 2-1/2

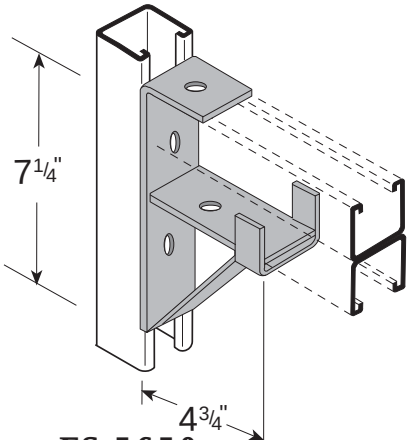
CHANNEL BRACKETS

Allowable Moment = 5,000 IN LB. for fitting only.
Channel may determine load capacity.



FS-5651 230#/Cpc
SHELF BRACKET FOR FS-200

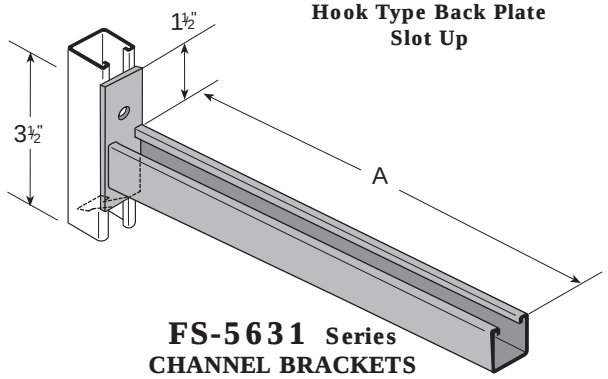
Allowable Moment = 12,000 IN LB. for fitting only.
Channel may determine load capacity.



FS-5650 275#/Cpc
SHELF BRACKET FOR FS-201

FS-5600 Thickness = 12 Ga. / FS-5650 / 51 Thickness = 1/4"

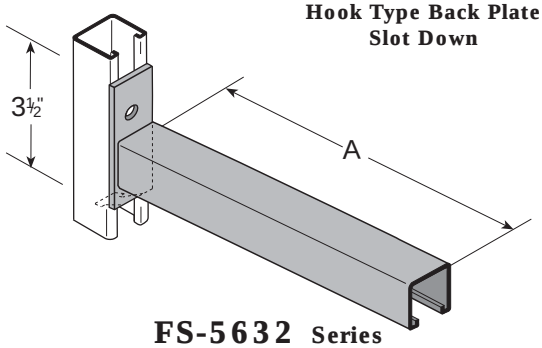
Hook Type Back Plate
Slot Up



FS-5631 Series
CHANNEL BRACKETS

Part No.	A	#/Cpc	Uniform Design Load
FS-5631-6	6"	160#	1,200#
FS-5631-12	12"	260#	600#
FS-5631-18	18"	350#	400#
FS-5631-24	24"	440#	300#

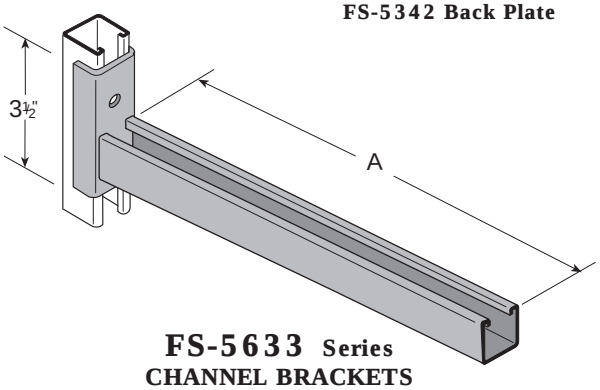
Hook Type Back Plate
Slot Down



FS-5632 Series
CHANNEL BRACKETS

Part No.	A	#/Cpc	Uniform Design Load
FS-5632-6	6"	160#	1,200#
FS-5632-12	12"	260#	600#
FS-5632-18	18"	350#	400#
FS-5632-24	24"	440#	300#

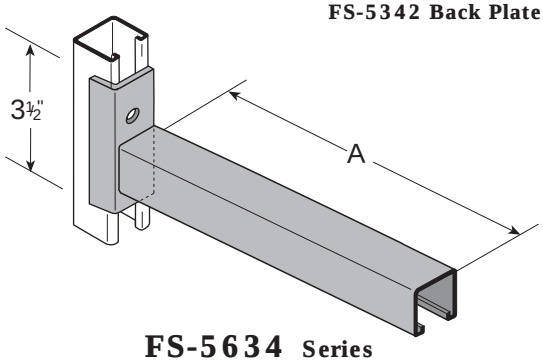
FS-5342 Back Plate



FS-5633 Series
CHANNEL BRACKETS

Part No.	A	#/Cpc	Uniform Design Load
FS-5633-6	6"	190#	1,600#
FS-5633-12	12"	290#	800#

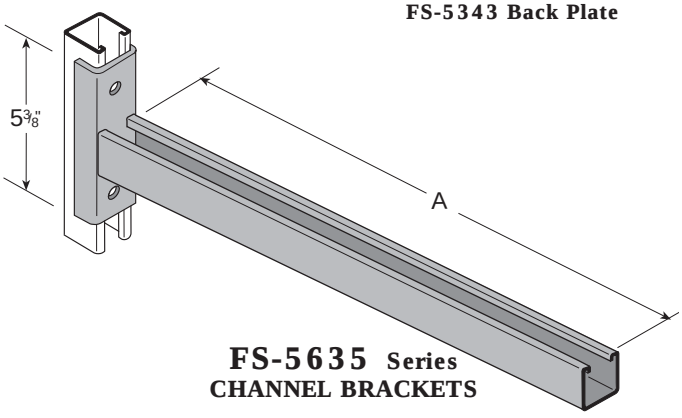
FS-5342 Back Plate



FS-5634 Series
CHANNEL BRACKETS

Part No.	A	#/Cpc	Uniform Design Load
FS-5634-6	6"	190#	1,600#
FS-5634-12	12"	290#	800#

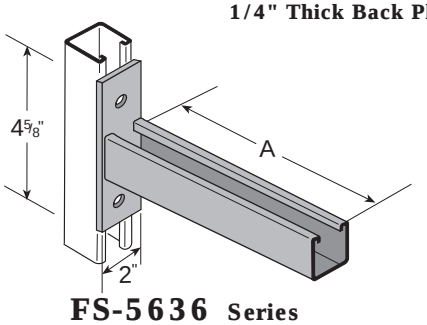
FS-5343 Back Plate



FS-5635 Series
CHANNEL BRACKETS

Part No.	A	#/Cpc	Uniform Design Load
FS-5635-18	18"	435#	600#
FS-5635-24	24"	525#	400#

1/4" Thick Back Plate

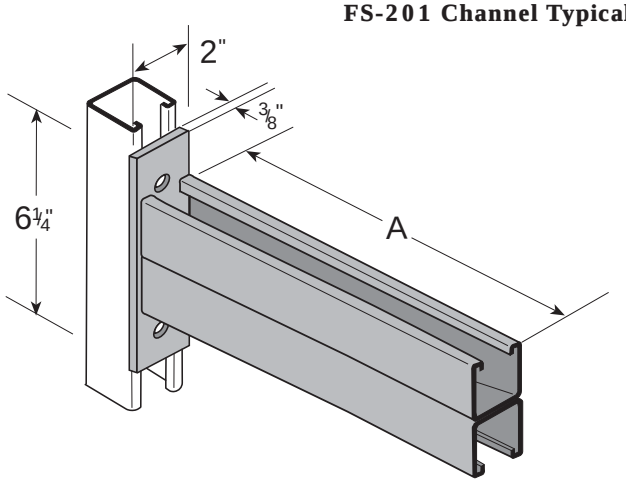


FS-5636 Series
CHANNEL BRACKETS

Part No.	A	#/Cpc	Uniform Design Load
FS-5636-6	6"	150#	1,500#
FS-5636-12	12"	245#	750#
FS-5636-18	18"	340#	500#
FS-5636-24	24"	435#	250#

Safety Factor = 2-1/2" • Black Plate & Web Thickness = 1/4" • All Channel Shown = 12 Ga. FS-200
• Attach with FS-1/2 Strut Nut and 1/2" HHCS •

FS-201 Channel Typical



FS-5637 Series
CHANNEL BRACKETS

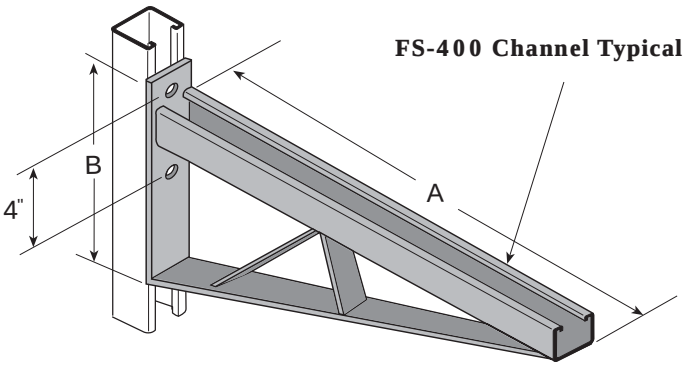
Part No.	A	#/Cpc	Uniform Design Load
FS-5637-12	12"	480#	2,000#
FS-5637-18	18"	665#	1,200#
FS-5637-24	24"	850#	1,000#
FS-5637-30	30"	1,020#	800#
FS-5637-36	36"	1,235#	600#

Part No.	A	B	#/Cpc	Uniform Design Load
FS-5638-12	12"	8-3/4"	360#	1,200#
FS-5638-18	18"	8-3/4"	475#	1,000#
FS-5638-24	24"	8-3/4"	710#	800#
FS-5638-30	30"	11-1/4"	925#	600#
FS-5638-36	36"	11-1/4"	1,090#	500#

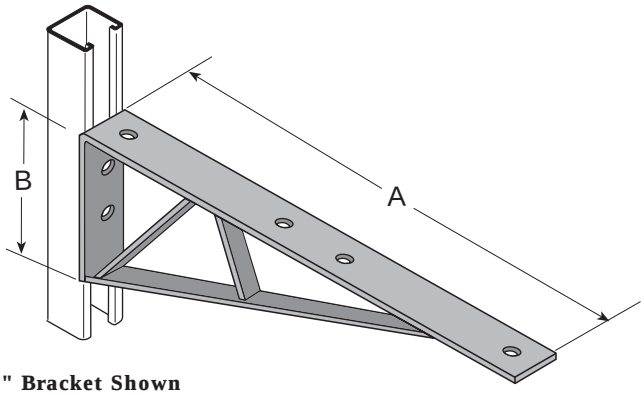
FS-400 Channel Typical

30" Bracket Shown
Web Reinforcement Varies with Length

FS-400 Channel Typical



FS-5638 Series
CHANNEL BRACKETS



24" Bracket Shown
14-1/2" Bracket and Shorter Provided Without Web Reinforcement

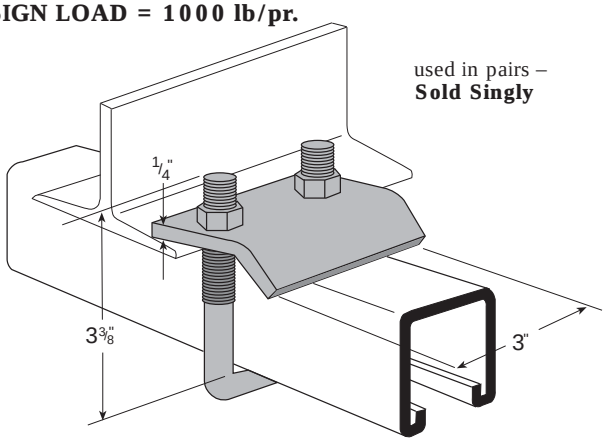
FS-5639 Series
CHANNEL BRACKETS

Part No.	A	B	#/Cpc	Uniform Design Load
FS-5639-8 1/2	8-1/2"	4"	175#	800#
FS-5639-10 1/2	10-1/2"	4"	205#	800#
FS-5639-12	12"	6"	245#	900#
FS-5639-12 1/2	12-1/2"	6"	265#	900#
FS-5639-14 1/2	14-1/2"	6"	300#	900#
FS-5639-16 1/2	16-1/2"	6"	300#	1,200#
FS-5639-18	18"	6"	395#	1,000#
FS-5639-24	24"	6"	435#	600#

Design load when used in 12 ga channel

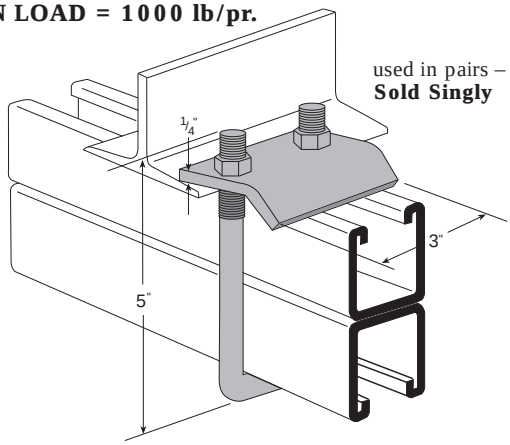
Safety Factor = 2-1/2" • Black Plate & Web Thickness = 1/4" • All Channel Shown = 12 Ga.
• Attach with FS-1/2 Strut Nut and 1/2" HHCS •

87#/Cpc
DESIGN LOAD = 1000 lb/pr.

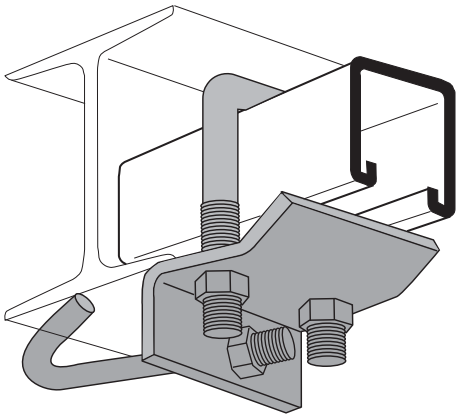


FS-5709
"U" BOLT BEAM CLAMP FOR FS-200

93#/Cpc
DESIGN LOAD = 1000 lb/pr.

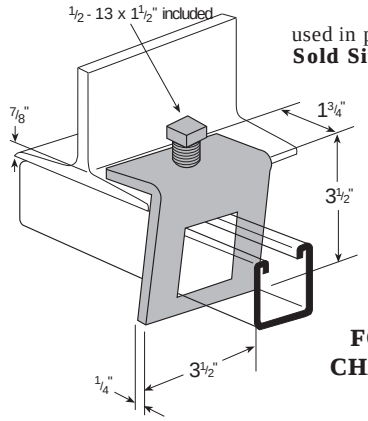


FS-5708
"U" BOLT BEAM CLAMP FOR FS-201



FS-5709-J6 130#/Cpc
FS-5709-J12 143#/Cpc
"U" BOLT BEAM CLAMP WITH J-HOOK

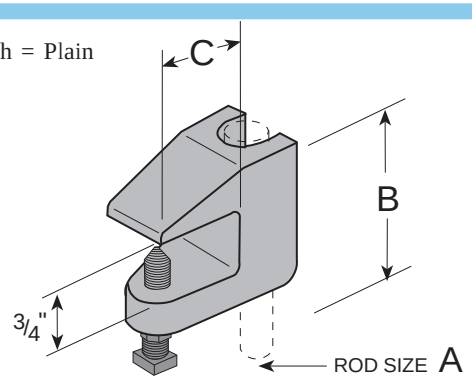
105#/Cpc
DESIGN LOAD = 900 lb/pr.



FOR FS-200 CHANNEL ONLY

FS-5702
WINDOW BEAM CLAMP

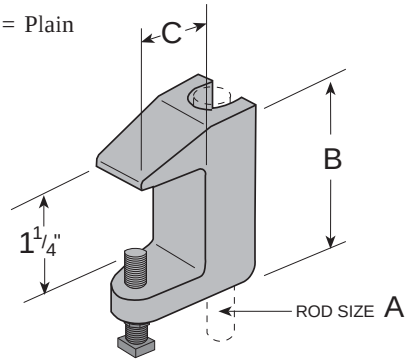
STD. Finish = Plain



Part No.	A	B	C	#/Cpc	Load
FS-5710-3/8	3/8"	1-1/2"	15/16"	34#	400#
FS-5710-1/2	1/2"	1-1/2"	15/16"	34#	500#

FS-5710
WEDGE C-CLAMP

STD. Finish = Plain



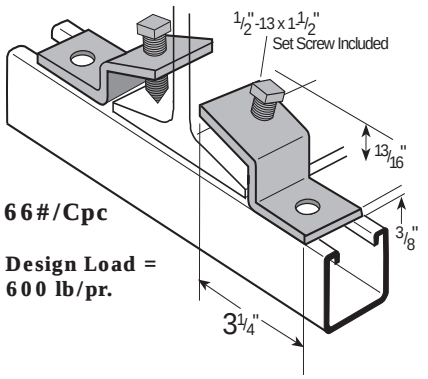
Part No.	A	B	C	#/Cpc	Load
FS-5711-3/8	3/8"	1-7/8"	15/16"	37#	400#
FS-5711-1/2	1/2"	1-7/8"	15/16"	37#	500#

FS-5711
WEDGE C-CLAMP

• Standard Fitting Finish = Electro-Galvanized (Plated), Unless Otherwise Noted •

Requires:
FS-7410 HHCS
FS-1/2 RS Channel Nut
Sold Separately

used in pairs –
Sold Singly



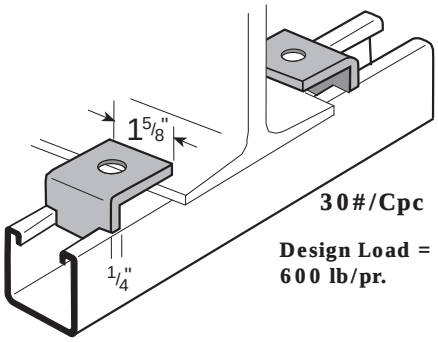
66#/Cpc

Design Load = 600 lb/pr.

FS-5712
FLANGE BEAM CLAMP
"Z" WITH SET SCREW

Requires:
FS-7411 HHCS
FS-1/2 RS Channel Nut
Sold Separately

used in pairs –
Sold Singly



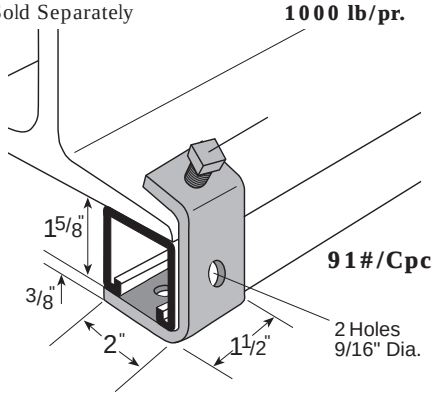
30#/Cpc

Design Load = 600 lb/pr.

FS-5713
CHANNEL-TO-FLANGE
ONE-HOLE BEAM CLAMP

Requires:
FS-7410 HHCS
FS-1/2 RS Channel Nut
Sold Separately

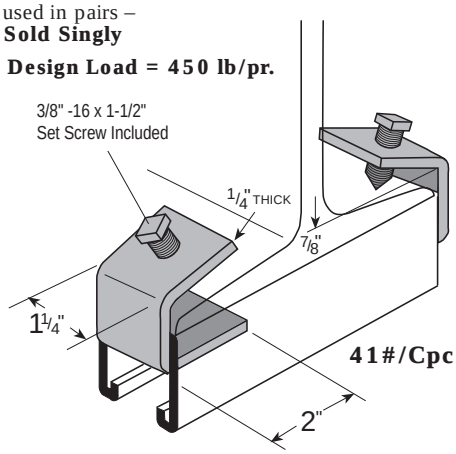
used in pairs –
Sold Singly
Design Load = 1000 lb/pr.



91#/Cpc

FS-5714
CHANNEL-TO-FLANGE
TWO-HOLE BEAM CLAMP

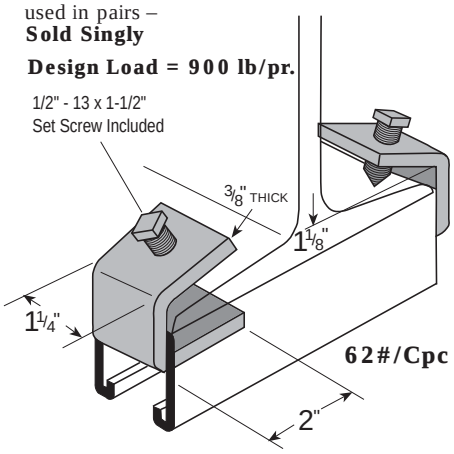
used in pairs –
Sold Singly
Design Load = 450 lb/pr.



41#/Cpc

FS-5715
CHANNEL-TO-FLANGE
LIGHT-DUTY BEAM CLAMPS

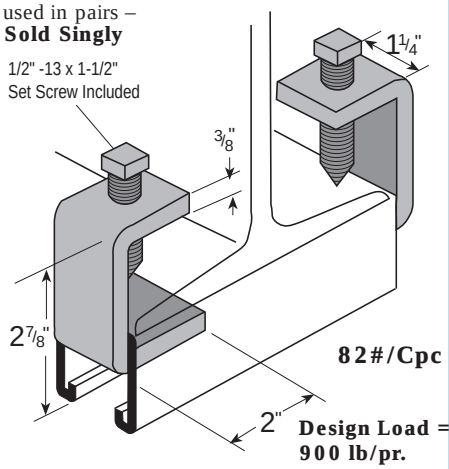
used in pairs –
Sold Singly
Design Load = 900 lb/pr.



62#/Cpc

FS-5716
CHANNEL-TO-FLANGE
HEAVY-DUTY BEAM CLAMPS

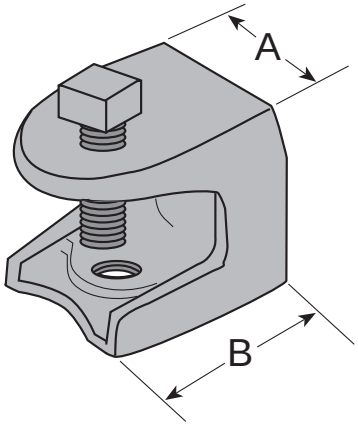
used in pairs –
Sold Singly



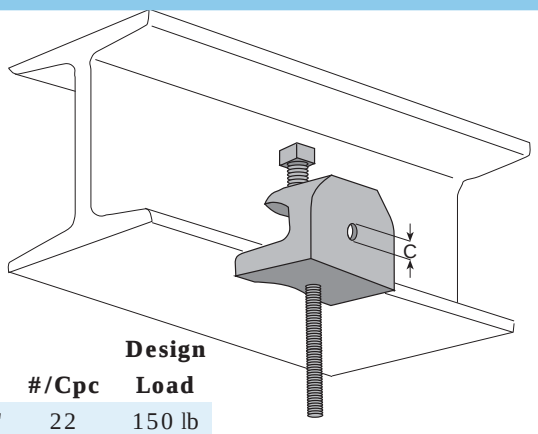
82#/Cpc

Design Load = 900 lb/pr.

FS-5717
CHANNEL-TO-FLANGE
DEEP THROAT BEAM CLAMP

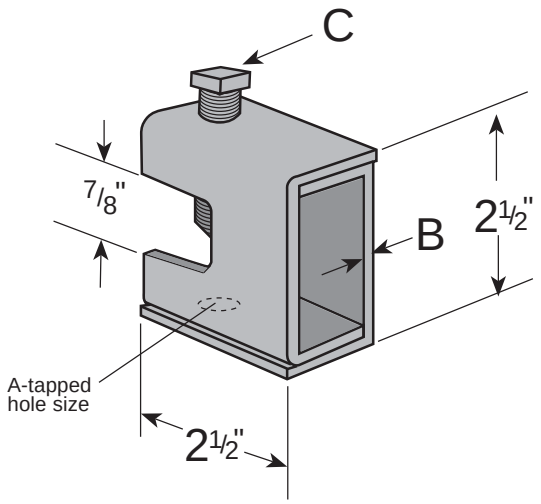


FS-5718 Series
ROD SUPPORT



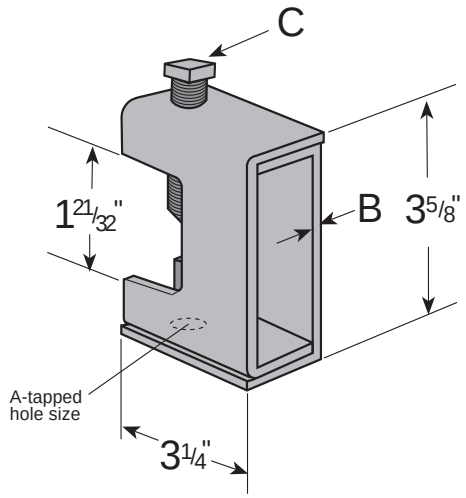
Part No.	"A"	"B"	"C"	#/Cpc	Design Load
FS-5718-1/4	1"	1-1/4"	1/4"	22	150 lb
FS-5718-3/8	2"	2"	3/8"	95	350 lb
FS-5718-1/2	2-3/4"	2-1/2"	1/2"	165	600 lb

FS-5718 Series
ROD SUPPORT



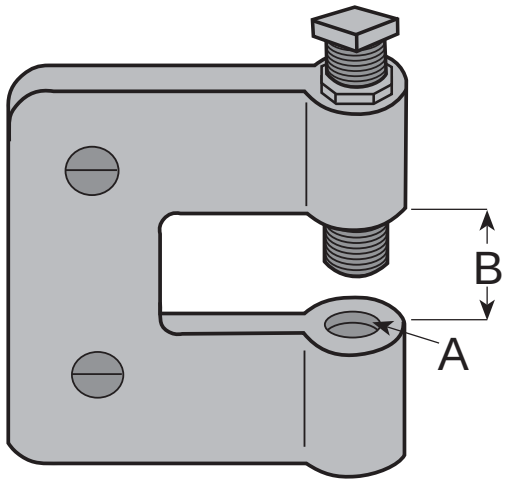
FS-5721 thru FS-5729

Part No.	A	B	C	#/Cpc	Allowable Load
FS-5721	1/4"-20	1/8"	3/8" x 1-1/2"	65	650#
FS-5722	5/16"-18	1/8"	3/8" x 1-1/2"	65	650#
FS-5723	3/8"-16	1/8"	3/8" x 1-1/2"	65	650#
FS-5724	3/8"-16	3/16"	1/2" x 1-1/2"	100	1100#
FS-5725	1/2"-13	3/16"	1/2" x 1-1/2"	100	1100#
FS-5726	1/2"-13	1/4"	1/2" x 1-1/2"	130	1600#
FS-5727	5/8"-11	1/4"	1/2" x 1-1/2"	130	1600#
FS-5728	5/8"-11	5/16"	5/8" x 1-1/2"	160	2400#
FS-5729	3/4"-10	5/16"	5/8" x 1-1/2"	160	2400#



FS-5731 thru FS-5736

Part No.	A	B	C	#/Cpc	Allowable Load
FS-5731	1/4"-20	1/8"	3/8" x 2"	105	800#
FS-5734	3/8"-16	3/16"	1/2" x 2"	160	1300#
FS-5736	1/2"-13	1/4"	1/2" x 2"	200	1900#



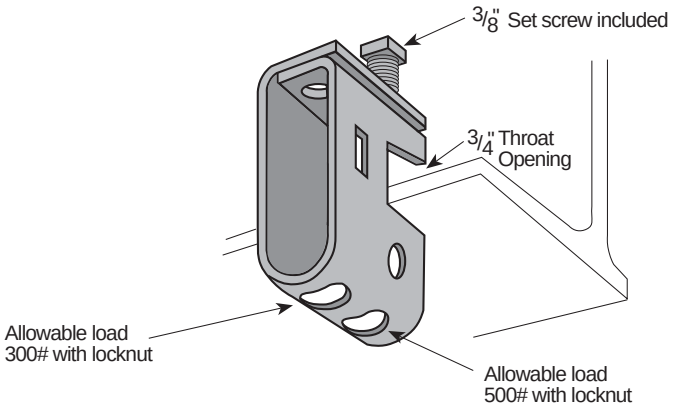
FS-5741 and FS-5742

Loading

Part No.	Tapped Hole Size A	Throat Opening B	#/Cpc	Allowable Load
FS-5741	3/8"-16	3/4"	50#	400#
FS-5742	1/2"-13	3/4"	55#	500#

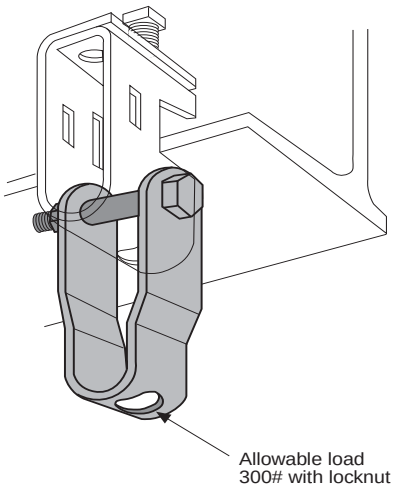
Also Available in Stainless Steel

43#/Cpc



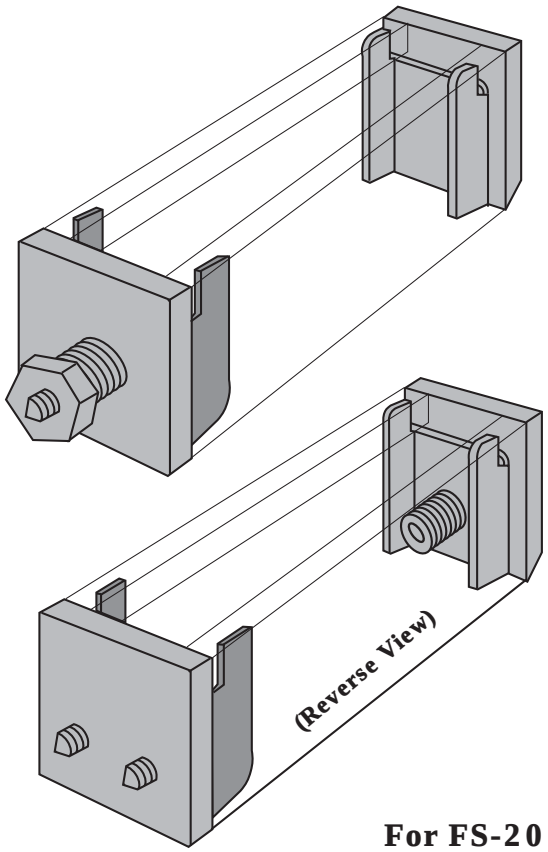
FS-5750
ALL-PURPOSE BEAM CLAMP

29#/Cpc



FS-5751
SWIVEL HANGER

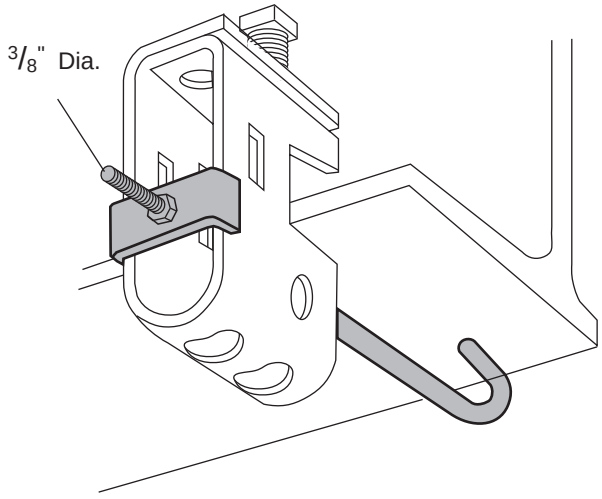
53#/Cpc
Sold In Sets



For FS-200 Channel Only

FS-5760
COLUMN ATTACHMENT FLANGE-TO-FLANGE CLAMP

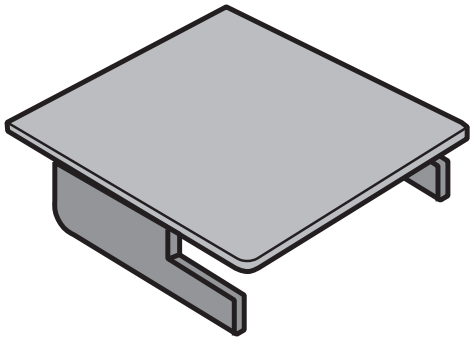
FS-200 CHANNEL ORDERED SEPARATELY.
CHANNEL SHOULD BE CUT 1-1/2" SHORTER THAN INSIDE DIMENSION BETWEEN COLUMN FLANGES. ALLOWABLE LOAD 800#.



FS-5755 & FS-5756
"J" BOLT

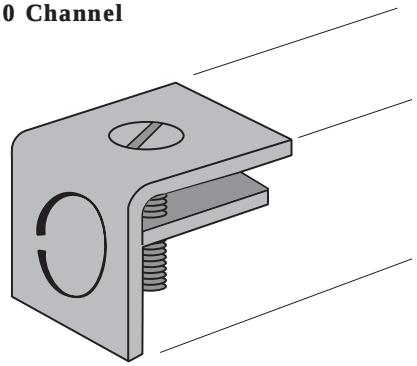
Part No.	Flange Width Min.	Flange Width Max.	J-Bolt Length	Wt./ 100 pcs.
FS-5755	3"	7"	8-5/8"	24
FS-5756	7"	11"	12-5/8"	33

Use with FS-5750 Beam Clamp



FS-5920-W 13#/Cpc
WIREWAY END CAP FOR FS-200 CHANNEL

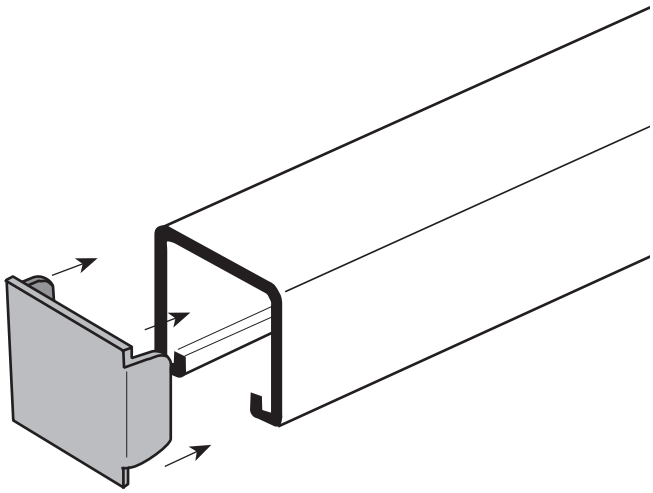
For FS-200 Channel



FS-5940-1/2" END CAP WITH 1/2" KNOCKOUT
26# / Cpc

FS-5940-3/4" END CAP WITH 3/4" KNOCKOUT
26# / Cpc

FS-5940 Series



FS-5910 SINGLE PIECE END CAP FOR FS-100 CHANNEL
15# / Cpc

FS-5915 SINGLE PIECE END CAP FOR FS-150 CHANNEL
6# / Cpc

FS-5920 SINGLE PIECE END CAP FOR FS-200 CHANNEL
5# /Cpc

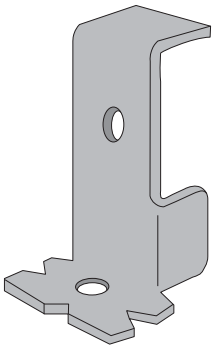
FS-5921 SINGLE PIECE END CAP FOR FS-210 CHANNEL
5# / Cpc

FS-5933 SINGLE PIECE END CAP FOR FS-300 CHANNEL
4# / Cpc

FS-5934 SINGLE PIECE END CAP FOR FS-400 CHANNEL
4# / Cpc

FS-5935 SINGLE PIECE END CAP FOR FS-500 AND FS-450 CHANNEL
4# / Cpc

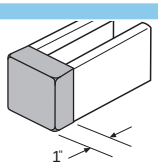
FS-5910 thru FS-5935



FS-5952 ANCHOR END CAP FOR FS-200 CHANNEL
21# / Cpc

FS-5953 ANCHOR END CAP FOR FS-300 CHANNEL
21# / Cpc

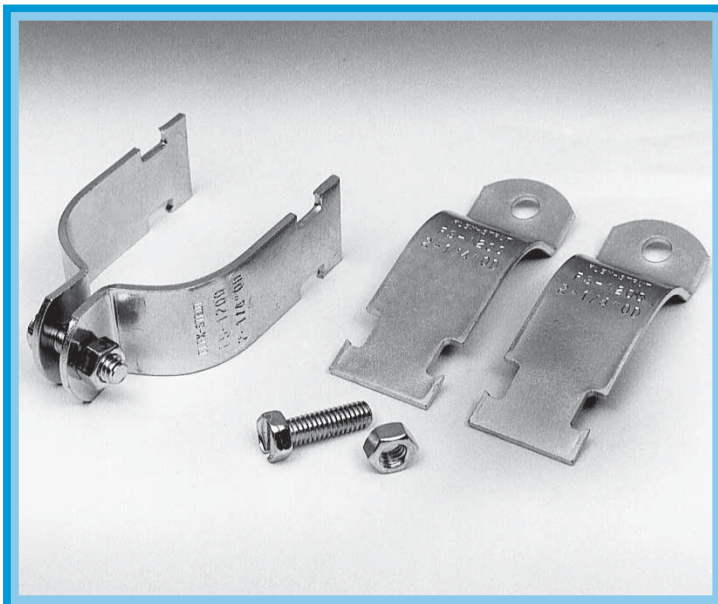
FS-5954 ANCHOR END CAP FOR FS-400 CHANNEL
21# / Cpc



PLASTIC END CAPS FOR SECTONS

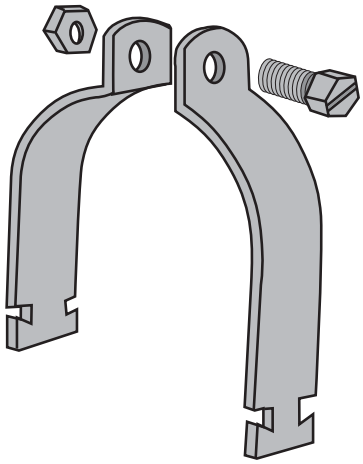
Part No.	Color	Channel Size	#/Cpc
FS-5960-1W	White	FS-100	5
FS-5960-15B	Black	FS-150	5
FS-5960-2BL	Blue	FS-200	4
FS-5960-2R	Red	FS-200	4
FS-5960-2W	White	FS-200	4
FS-5960-2Y	Yellow	FS-200	4
FS-5960-2BR	Brown	FS-200	4
FS-5960-2B	Black	FS-200	4
FS-5960-5R	Red	FS-500	4
FS-5960-5W	White	FS-500	4
FS-5960-7B	Black	FS-700	2

Also Available in Other Standard Strut Sizes



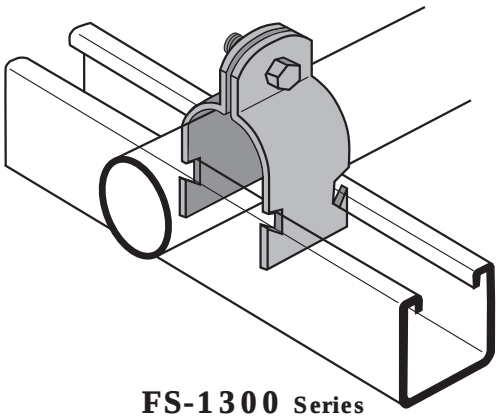
FS-1000 Series
THINWALL CONDUIT CLAMPS
(E.M.T.)

Part No.	Nominal Size	#/Cpc	Gauge	Allowable Load	Slotted Indented Hex Cap Screw
FS-1000-3/8	3/8"	9#	16	400#	1/4" x 3/4"
FS-1000-1/2	1/2"	11#	16	400#	1/4" x 3/4"
FS-1000-3/4	3/4"	12#	16	400#	1/4" x 3/4"
FS-1000-1	1"	15#	14	600#	1/4" x 3/4"
FS-1000-1-1/4	1-1/4"	15#	14	600#	1/4" x 3/4"
FS-1000-1-1/2	1-1/2"	29#	12	800#	5/16" x 1"
FS-1000-2	2"	33#	12	800#	5/16" x 1"



FS-1100 Series
RIGID CONDUIT CLAMPS
(PIPE)

Part No.	Nominal Size	#/Cpc	Gauge	Allowable Load	Slotted Indented Hex Cap Screw
FS-1100-3/8	3/8"	10#	16	400#	1/4" x 3/4"
FS-1100-1/2	1/2"	11#	16	400#	1/4" x 3/4"
FS-1100-3/4	3/4"	12#	16	400#	1/4" x 3/4"
FS-1100-1	1"	15#	14	600#	1/4" x 3/4"
FS-1100-1-1/4	1-1/4"	19#	14	600#	1/4" x 3/4"
FS-1100-1-1/2	1-1/2"	29#	12	800#	5/16" x 1"
FS-1100-2	2"	34#	12	800#	5/16" x 1"
FS-1100-2-1/2	2-1/2"	40#	12	800#	5/16" x 1"
FS-1100-3	3"	47#	12	800#	5/16" x 1"
FS-1100-3-1/2	3-1/2"	62#	11	1000#	3/8" x 1-1/4"
FS-1100-4	4"	67#	11	1000#	3/8" x 1-1/4"
FS-1100-5	5"	80#	11	1000#	3/8" x 1-1/4"
FS-1100-6	6"	102#	10	1000#	3/8" x 1-1/4"
FS-1100-8	8"	116#	10	1000#	3/8" x 1-1/4"
FS-1100-10	10"	145#	10	1000#	3/8" x 1-1/4"
FS-1100-12	12"	160#	10	1000#	3/8" X 1-1/4"



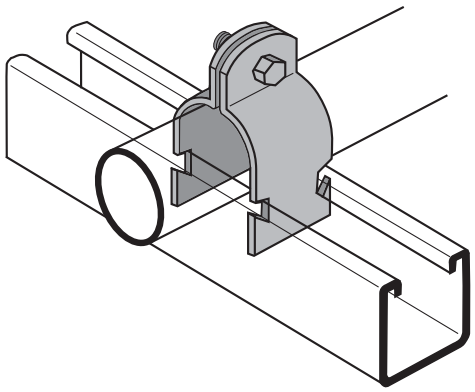
FS-1300 Series
UNIVERSAL CLAMPS
(E.M.T. OR RIGID)

Part No.	Nominal Size	#/Cpc	Gauge	Allowable Load	Slotted Indented Hex Cap Screw
FS-1300-3/8	3/8"	9#	16	400#	5/16" x 1-1/4"
FS-1300-1/2	1/2"	11#	16	400#	5/16" x 1-1/4"
FS-1300-3/4	3/4"	12#	16	400#	5/16" x 1-1/4"
FS-1300-1	1"	15#	14	600#	5/16" x 1-1/4"
FS-1300-1-1/4	1-1/4"	18#	14	600#	5/16" x 1-1/4"
FS-1300-1-1/2	1-1/2"	28#	12	800#	5/16" x 1-1/4"
FS-1300-2	2"	32#	12	800#	5/16" x 1-1/4"

FOR ASSEMBLED, USE "A" SUFFIX
Example: FS-1300A-2

Part No.	O.D. Tube Size	#/Cpc	Gauge	Allowable Load	Slotted Indented Hex Cap Screw
FS-1200-1/4	1/4”	8#	16	400#	1/4” x 3/4”
FS-1200-3/8	3/8”	8#	16	400#	1/4” x 3/4”
FS-1200-1/2	1/2”	9#	16	400#	1/4” x 3/4”
FS-1200-5/8	5/8”	10#	16	400#	1/4” x 3/4”
FS-1200-3/4	3/4”	11#	16	400#	1/4” x 3/4”
FS-1200-7/8	7/8”	12#	16	400#	1/4” x 3/4”
FS-1200-1	1”	14#	14	600#	1/4” x 3/4”
FS-1200-1-1/8	1-1/8”	15#	14	600#	1/4” x 3/4”
FS-1200-1-1/4	1-1/4”	16#	14	600#	1/4” x 3/4”
FS-1200-1-3/8	1-3/8”	17#	14	600#	1/4” x 3/4”
FS-1200-1-1/2	1-1/2”	18#	14	600#	1/4” x 3/4”
FS-1200-1-5/8	1-5/8”	19#	14	600#	1/4” x 3/4”
FS-1200-1-3/4	1-3/4”	29#	12	800#	5/16” x 1”
FS-1200-1-7/8	1-7/8”	28#	12	800#	5/16” x 1”
FS-1200-2	2”	31#	12	800#	5/16” x 1”
FS-1200-2-1/8	2-1/8”	32#	12	800#	5/16” x 1”
FS-1200-2-1/4	2-1/4”	33#	12	800#	5/16” x 1”
FS-1200-2-3/8	2-3/8”	34#	12	800#	5/16” x 1”
FS-1200-2-1/2	2-1/2”	35#	12	800#	5/16” x 1”
FS-1200-2-5/8	2-5/8”	37#	12	800#	5/16” x 1”
FS-1200-2-3/4	2-3/4”	38#	12	800#	5/16” x 1”
FS-1200-2-7/8	2-7/8”	40#	12	800#	5/16” x 1”
FS-1200-3	3”	41#	12	800#	5/16” x 1”
FS-1200-3-1/8	3-1/8”	43#	12	800#	5/16” x 1”
FS-1200-3-1/4	3-1/4”	45#	12	800#	5/16” x 1”
FS-1200-3-3/8	3-3/8”	46#	12	800#	5/16” x 1”
FS-1200-3-1/2	3-1/2”	47#	12	800#	5/16” x 1”
FS-1200-3-5/8	3-5/8”	56#	11	1000#	3/8” x 1-1/4”
FS-1200-3-3/4	3-3/4”	58#	11	1000#	3/8” x 1-1/4”
FS-1200-3-7/8	3-7/8”	60#	11	1000#	3/8” x 1-1/4”
FS-1200-4	4”	62#	11	1000#	3/8” x 1-1/4”
FS-1200-4-1/8	4-1/8”	62#	11	1000#	3/8” x 1-1/4”
FS-1200-4-1/4	4-1/4”	64#	11	1000#	3/8” x 1-1/4”
FS-1200-4-3/8	4-3/8”	66#	11	1000#	3/8” x 1-1/4”
FS-1200-4-1/2	4-1/2”	67#	11	1000#	3/8” x 1-1/4”
FS-1200-4-5/8	4-5/8”	70#	11	1000#	3/8” x 1-1/4”
FS-1200-4-3/4	4-3/4”	72#	11	1000#	3/8” x 1-1/4”
FS-1200-4-7/8	4-7/8”	73#	11	1000#	3/8” x 1-1/4”
FS-1200-5	5”	74#	11	1000#	3/8” x 1-1/4”
FS-1200-5-1/8	5-1/8”	76#	11	1000#	3/8” x 1-1/4”
FS-1200-5-1/4	5-1/4”	77#	11	1000#	3/8” x 1-1/4”
FS-1200-5-3/8	5-3/8”	78#	11	1000#	3/8” x 1-1/4”
FS-1200-5-1/2	5-1/2”	79#	11	1000#	3/8” x 1-1/4”
FS-1200-5-5/8	5-5/8”	88#	10	1000#	3/8” x 1-1/4”
FS-1200-5-3/4	5-3/4”	90#	10	1000#	3/8” x 1-1/4”
FS-1200-5-7/8	5-7/8”	92#	10	1000#	3/8” x 1-1/4”
FS-1200-6	6”	92#	10	1000#	3/8” x 1-1/4”

(For Larger Sizes-Contact The Factory)



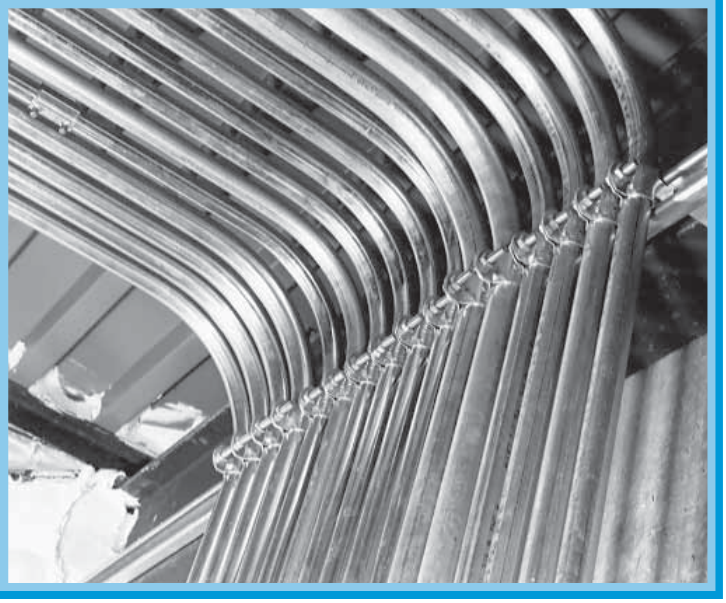
FS-1200 Series
O.D. TUBING CLAMPS

Standard Finish = Electro-Galvanized E/G

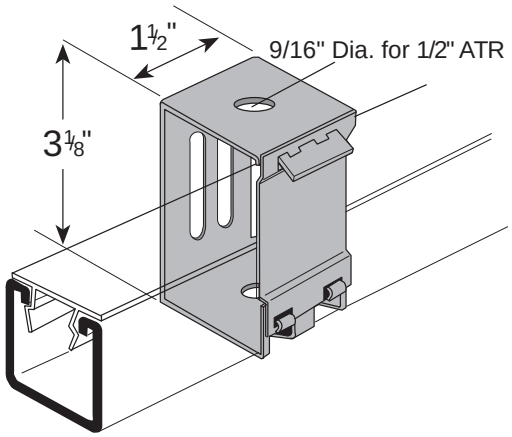
Special Material	Add Suffix to Part Number	Example
Copper Plated Clamp and Hardware	C/P	FS-1200-2 1/8 C/P
Aluminum	AL	FS-1200-2 AL
Stainless Steel Type **304**	ST4	FS-1200-2 ST4
Stainless Steel Type **316**	ST6	FS-1200-2 ST6
For **Assembled** Clamps	-A	FS-1200A-2

Special Materials Available for FS-1100 and FS-1200 Series
(Any pipe clamp may be assembled)

LARGER SIZES AVAILABLE UPON REQUEST

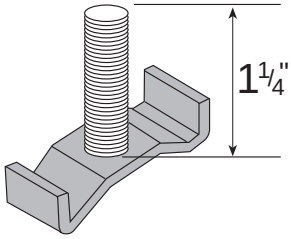


25#/Cpc Design Load = 250#



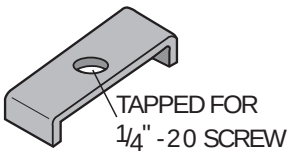
FS-6420
CHANNEL HANGER

4#/Cpc



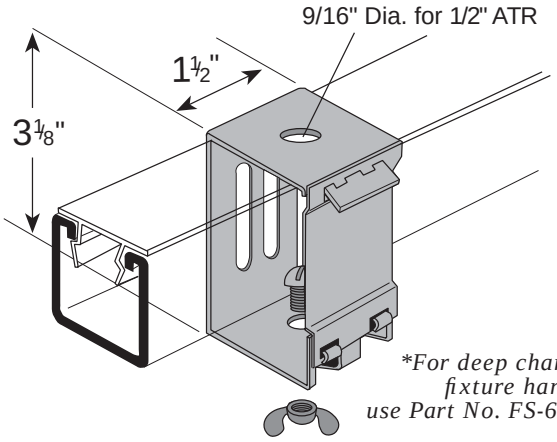
FS-6460
FIXTURE STUD NUT

2#/Cpc



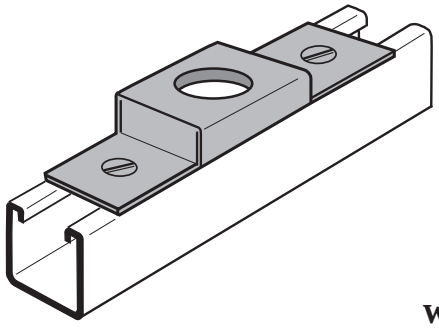
FS-6461
FIXTURE NUT

27#/Cpc Design Load = 150#



**For deep channel fixture hanger, use Part No. FS-6426*

FS-6422
FIXTURE HANGERS

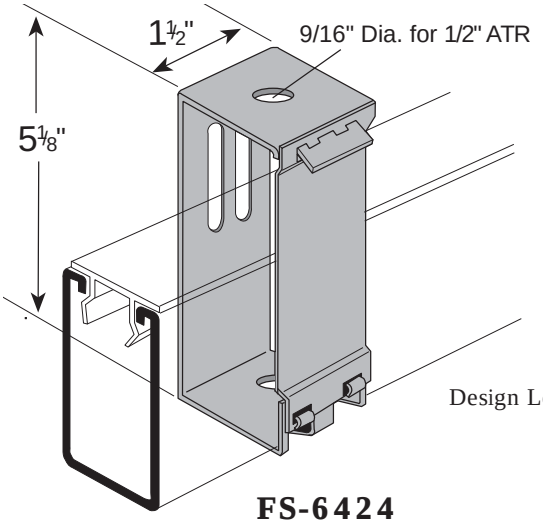


Cat. No.	Use With	Hole	Weight Lbs./C
FS-6442	1/2" Conduit	7/8"	28
FS-6443	3/4" Conduit	1-3/32"	28

Assembly includes Strut Nuts and Flat Head Machine Screws

FS-6442
CONDUIT CONNECTOR

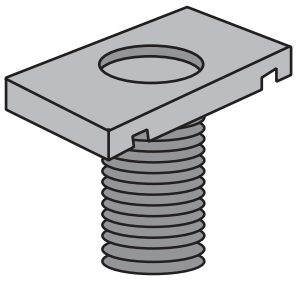
45#/Cpc



Design Load = 250#

FS-6424
DEEP CHANNEL HANGER

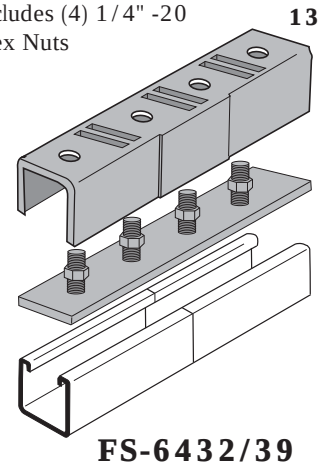
8#/Cpc



FS-6462
WIRING STUD NUT

Includes (4) 1/4" -20 Hex Nuts

134#/Cpc

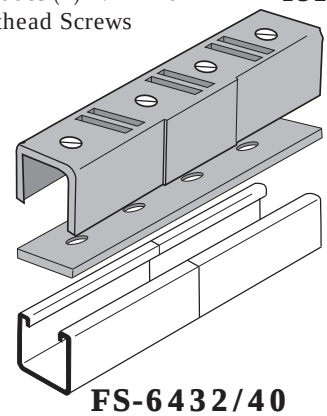


FS-6432/39

INCLUDES
- **FS-6432-SPLICE CLEVIS**
- **FS-6439 STUD PLATE**

Includes (4) 1/4" -20 Flathead Screws

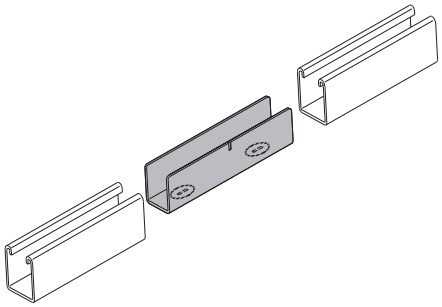
132#/Cpc



FS-6432/40

INCLUDES
- **FS-6432-SPLICE CLEVIS**
- **1/4" -20FHMS**
- **FS-6440 TAPPED PLATE**

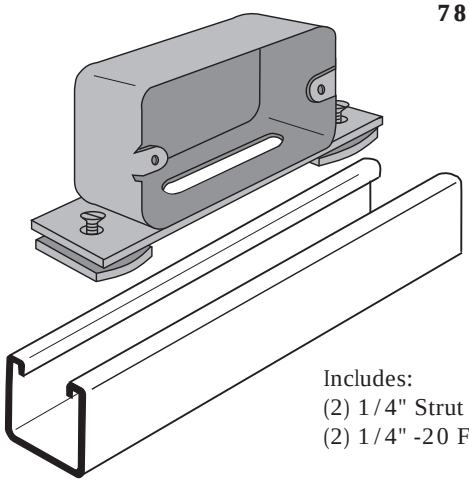
For FS-200 Channel



FS-6441

IN-LINE STRUT JOINER

78#/Cpc

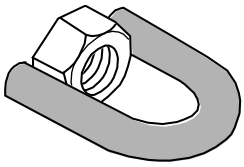


Includes:
(2) 1/4" Strut Nuts
(2) 1/4" -20 FHMS

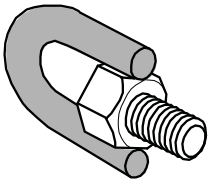
FS-6445

OUTLET BOX

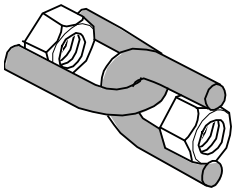
SWIVEL HANGERS



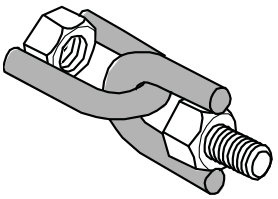
FS-6471-3/8
FS-6471-1/2



FS-6481-3/8
FS-6481-1/2



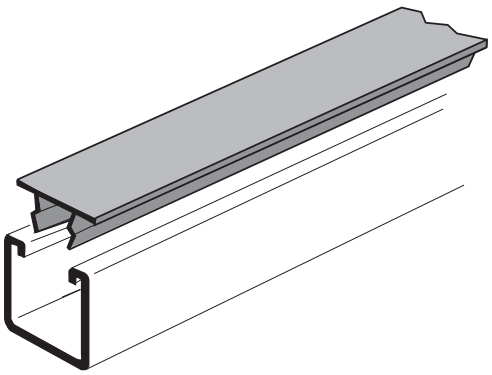
FS-6472-3/8
FS-6472-1/2



FS-6482-3/8
FS-6482-1/2

19 Ga. (.040) Steel and Aluminum
Finish: Plain / Green / Galvanized / Aluminum

47#/Cft

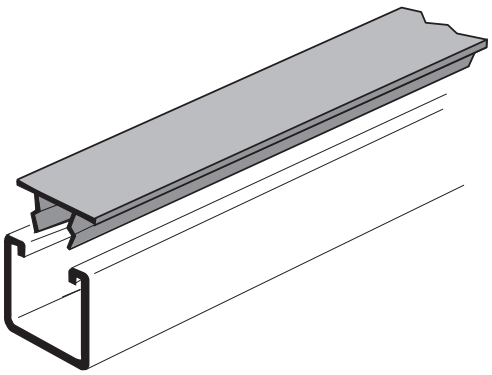


FS-6500

CLOSURE STRIP (ELECTRICAL COVER)
STEEL OR ALUMINUM

Plastic Available In:
Black / White / Green / Gray

8#/Cft

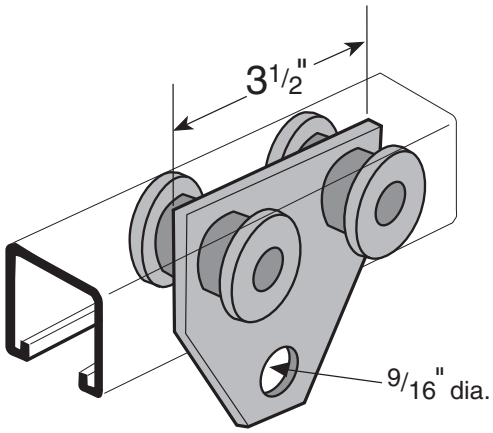


FS-6518

CLOSURE STRIP
PLASTIC

106#/Cpc

Design Load = 600#

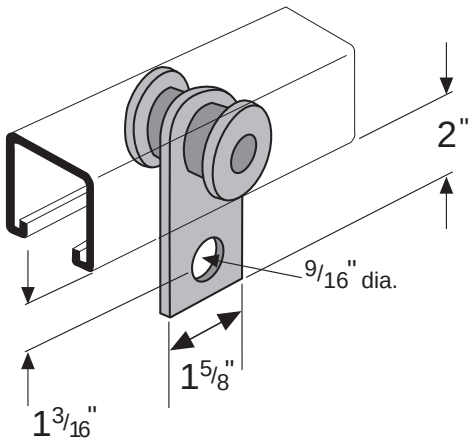


Fits FS-200 Channel

FS-6600
FOUR WHEEL TROLLEY

59#/Cpc

Design Load = 300#

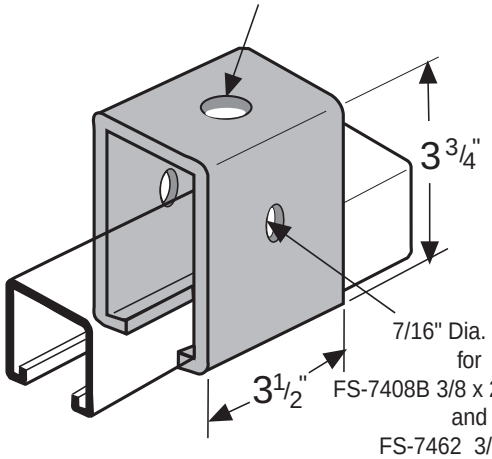


Fits FS-200 Channel

FS-6602
TWO WHEEL TROLLEY

240#/Cpc

9/16" Dia. Hole for 1/2" Rod Support



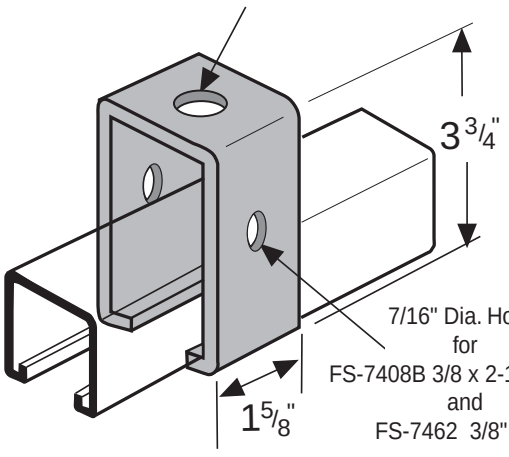
7/16" Dia. Holes
for
FS-7408B 3/8 x 2-1/2 HHCS
and
FS-7462 3/8" H.N.

Hardware Sold Separately

FS-6603
TROLLEY BEAM JOINT SUPPORT

105#/Cpc

9/16" Dia. Hole for 1/2" Rod Support



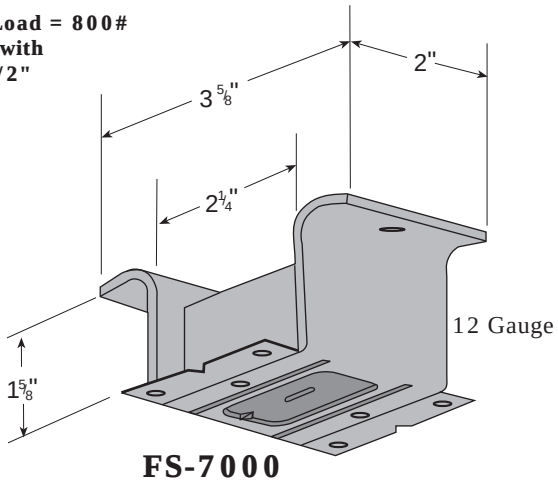
7/16" Dia. Holes
for
FS-7408B 3/8 x 2-1/2 HHCS
and
FS-7462 3/8" H.N.

Hardware Sold Separately

FS-6604
TROLLEY BEAM INTERMEDIATE SUPPORT

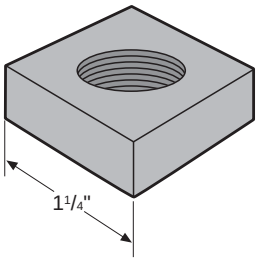
50#/Cpc

Allowable Load = 800# when used with FS-7025-1/2" or Larger



FS-7000
SPOT CONCRETE INSERT

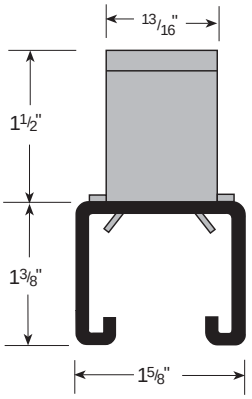
Cat. No.	Tapped Size	#/Cpc
FS-7025-1/4"	1/4" -20	11#
FS-7025-3/8"	3/8" -16	15#
FS-7025-1/2"	1/2" -13	19#
FS-7025-5/8"	5/8" -11	18#
FS-7025-3/4"	3/4" -10	17#
FS-7025-7/8"	7/8" -9	15#

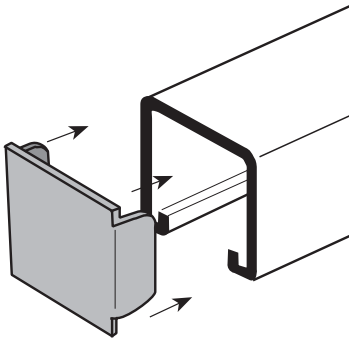


FS-7025 Series
INSERT SQUARE NUT

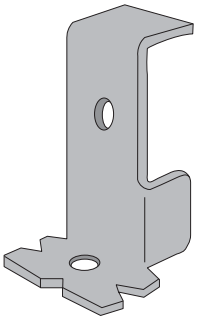
P/N	Allowable Load
FS-7350	800#
FS-7351	1000#
FS-7352	1200#
FS-7353	2000#
FS-7354/70	2000#/FT

FS-7370 Series





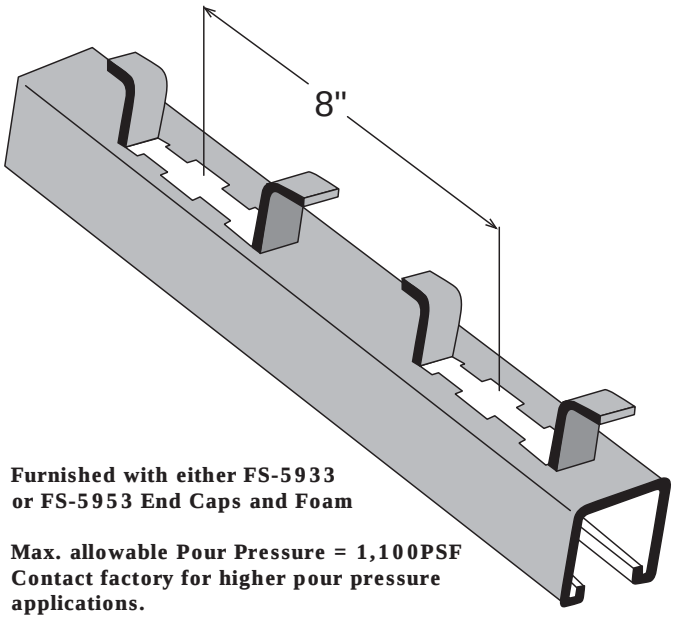
FS-5933



FS-5953

Cat. No.	Insert Length	End Cap Furnished	Weight Cpcs
FS-7350	4"	FS-5953	100#
FS-7351	6"	FS-5953	130#
FS-7352	8"	FS-5953	160#
FS-7353	12"	FS-5953	220#
FS-7354	16"	FS-5933	250#
FS-7355	20"	FS-5933	310#
FS-7356	24"	FS-5933	370#
FS-7357	32"	FS-5933	490#
FS-7357A	36"	FS-5933	550#
FS-7358	40"	FS-5933	610#
FS-7359	4'	FS-5933	730#
FS-7360	5'	FS-5933	910#
FS-7361	6'	FS-5933	1090#
FS-7362	7'	FS-5933	1270#
FS-7363	8'	FS-5933	1450#
FS-7364	9'	FS-5933	1630#
FS-7365	10'	FS-5933	1810#
FS-7366	12'	FS-5933	2170#
FS-7367	14'	FS-5933	2530#
FS-7368	16'	FS-5933	2890#
FS-7369	18'	FS-5933	3250#
FS-7370	20'	FS-5933	3610#

1-5/8" x 1-3/8" x 12 ga

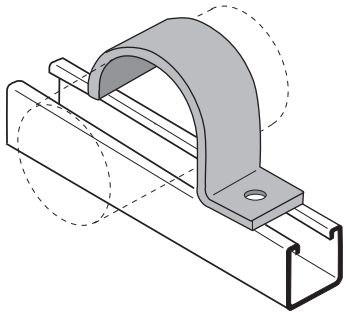


Furnished with either FS-5933 or FS-5953 End Caps and Foam

Max. allowable Pour Pressure = 1,100PSF Contact factory for higher pour pressure applications.

FS-7370 Series

FS-7730 Series
ONE-HOLE TUBING CLAMPS
Use with any 1-5/8" wide channel

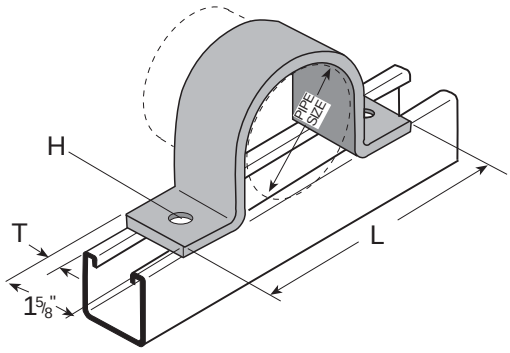


Requires FS-7401 (hex head cap screw) and FS-1/4RS (channel nut); order separately.

Cat. No.	O.D. Tube Size	#/Cpc
FS-7730-1/4	1/4"	4
FS-7730-5/16	5/16"	5
FS-7730-3/8	3/8"	5
FS-7730-1/2	1/2"	6
FS-7730-5/8	5/8"	8
FS-7730-3/4	3/4"	9
FS-7730-7/8	7/8"	10
FS-7730-1	1"	11

Standard Finish – electro-galvanized *(Available in Stainless Steel)*

FS-7870 Series
STANDARD PIPE STRAPS

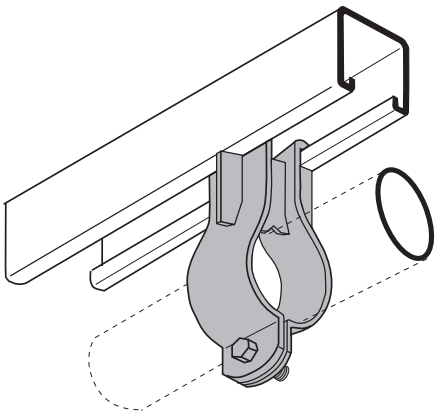


Requires hex head cap screw and channel nuts; order separately.

Standard Finish – electro-galvanized
Available in Stainless Steel

Cat. No.	Pipe Size	"L" Length	"T" Material Thickness	"H" Hole Size	#/Cpc
FS-7870-1/2	1/2"	3"	1/8"	9/32"	24
FS-7870-3/4	3/4"	3-1/4"	1/8"	9/32"	28
FS-7870-1	1"	3-9/16"	1/8"	9/32"	32
FS-7870-1-1/4	1-1/4"	3-13/16"	1/8"	9/32"	35
FS-7870-1-1/2	1-1/2"	4-1/16"	1/8"	9/32"	40
FS-7870-2	2"	5-13/16"	1/4'	7/16"	95
FS-7870-2-1/2	2-1/2"	6-1/4"	1/4"	7/16"	116
FS-7870-3	3"	7"	1/4"	7/16"	135
FS-7870-3-1/2	3-1/2"	7-7/8"	1/4"	7/16"	155
FS-7870-4	4"	8"	1/4"	7/16"	180
FS-7870-5	5"	9-1/8"	1/4"	7/16"	195
FS-7870-6	6"	10-5/16"	1/4"	7/16"	240

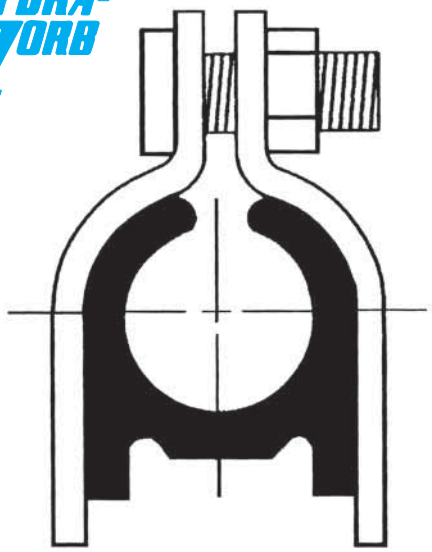
FS-7880 Series
PARALLEL PIPE CLAMPS



Standard Finish – electro-galvanized

Cat. No.	Pipe Size	Material Thickness	Allowable Load	#/Cpc
FS-7880-3/8	3/8"	16 Ga.	300#	24
FS-7880-1/2	1/2"	16 Ga.	300#	25
FS-7880-3/4	3/4"	14 Ga.	300#	31
FS-7880-1	1"	14 Ga.	400#	32
FS-7880-1-1/4	1-1/4"	14 Ga.	400#	37
FS-7880-1-1/2	1-1/2"	12 Ga.	500#	49
FS-7880-2	2"	12 Ga.	500#	52
FS-7880-2-1/2	2-1/2"	12 Ga.	500#	59
FS-7880-3	3"	12 Ga.	500#	65
FS-7880-3-1/2	3-1/2"	11 Ga.	500#	81
FS-7880-4	4"	11 Ga.	500#	88

HYDRA-ZORB



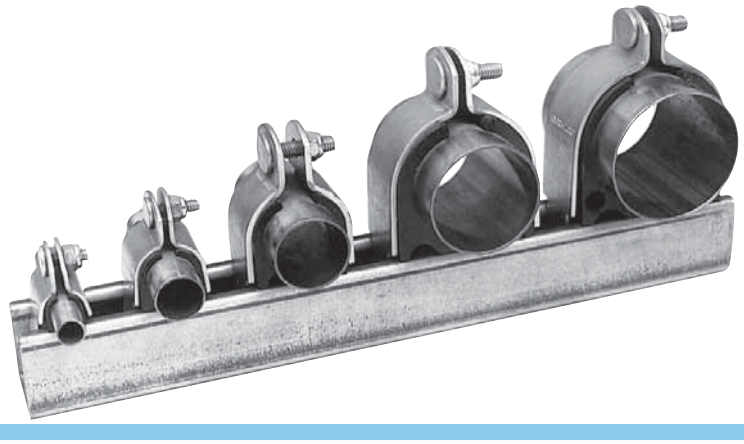
FS-1400 SERIES
HYDRA-ZORB CUSHION CLAMPS

Part No.	CT Size	Copper & Steel Tube O.D. Size
FS-1400-025	1/8"	1/4"
FS-1400-037	1/4"	3/8"
FS-1400-050	3/8"	1/2"
FS-1400-062	1/2"	5/8"
FS-1400-075	5/8"	3/4"
FS-1400-087	3/4"	7/8"
FS-1400-112	1"	1-1/8"
FS-1400-137	1-1/4"	1-3/8"
FS-1400-162	1-1/2"	1-5/8"
FS-1400-212	2"	2-1/8"
FS-1400-262	2-1/2"	2-5/8"
FS-1400-312	3"	3-1/8"
FS-1400-362	3-1/2"	3-5/8"
FS-1400-412	4"	4-1/8"

Contact Factory For Additional Sizes

Part No.	Nom. Pipe Size	Part No.	Nom. Pipe Size
FS-1400P-025	1/4"	FS-1400P-200	2"
FS-1400P-037	3/8"	FS-1400P-250	2-1/2"
FS-1400P-050	1/2"	FS-1400P-300	3"
FS-1400P-075	3/4"	FS-1400P-350	3-1/2"
FS-1400P-100	1"	FS-1400P-400	4"
FS-1400P-125	1-1/4"	FS-1400P-500	5"
FS-1400P-150	1-1/2"	FS-1400P-600	6"

Contact Factory For Additional Sizes

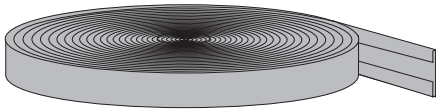


HYDRA-ZORB CUSHION CLAMP ASSEMBLIES FOR PIPES, TUBES, AND HOSES.

- Reduce noise, shock and vibration caused by fluid surges in tubes, pipes, and hoses used in the construction of stationery and mobile equipment.
- Eliminate metal to metal contact between fluid conductors and clamps.
- Resist most fuels, oils, gases, greases, solvents, mineral acids, etc.
- Allow fluid conductors to be added or removed from installations without disturbing adjacent conductors.
- Permit various fluid conductors to be mixed to suit installation.
- Allow center distances between fluid conductors to be variable and not critical for compact installation.
- Are usable to temperatures down to -65°F and up to 275°F.
- Provide fast and simple installation. Only one man and one tool needed for assembly after base channel is in place.

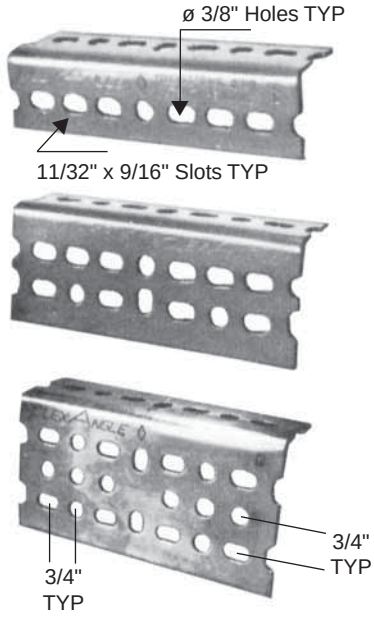
Standard Finish – electro-galvanized with yellow chromate rinse
Also available in stainless steel, 304 or 316, aluminum and hot dip galvanized.

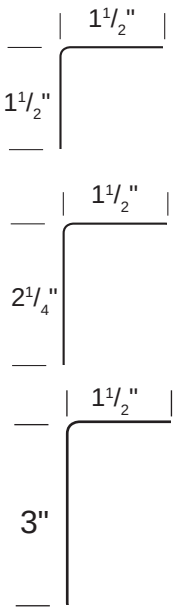
FLEX-WRAP - FS-3792



25 FT / Box

Hydra-Zorb is a Registered Trademark of Hydra-Zorb Corporation





Part No.	Ga.	Length	#/Cft.
FA-110 PG	14	10 Ft.	78
FA-112 PG	14	12 Ft.	

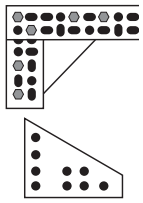
Part No.	Ga.	Length	#/Cft.
FA-210 PG	14	10 Ft.	95
FA-212 PG	14	12 Ft.	

Part No.	Ga.	Length	#/Cft.
FA-310 PG	12	10 Ft.	135
FA-312 PG	12	12 Ft.	

Packages contain 10 lengths of angle and 75 nuts and bolts.
(Bulk bundles available upon request.)
Standard Finish = Pre-Galvanized
(Plain finish available upon request)

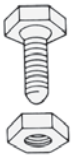
FLEXANGLE GUSSET PLATES

Heavy, flat plates used for extra bracing, extra rigidity in severe service. Can be added to existing structures without disassembling corner joints. Shipping weight 5 lbs. per package of ten.



EXTRA NUTS AND BOLTS

Heat-treated, zinc-coated, 5/16˝ x 3/4" bolt with load bearing shoulder and washer face for rapid assembly. Safe load 2000 lbs. per bolt. Nut is serrated for permanent, shake-proof locking. Sets of 75 per box. Weight 3-1/2 lbs.

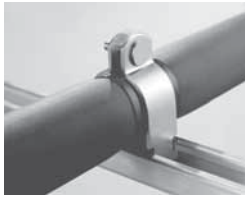


The Klo-Shure® Insulation Coupling reduces the time required to insulate copper tubing used for refrigerant lines, hot and cold water plumbing, and chilled water systems.

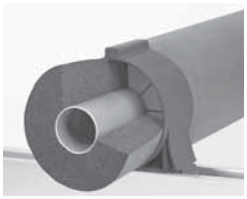
They are easy to install. The Klo-Shure® Insulation Coupling can be slit open to facilitate installation, and later secured with the provided metal clip. They also can be used unopened by sliding the coupling over tubing as it is installed.

No special tools, glue or tape required. Klo-Shure® Couplings are recommended for pipe fitters to support and level tubing during installation. This will allow insulation to be secured in seconds.

Klo-Shure® Insulation Couplings

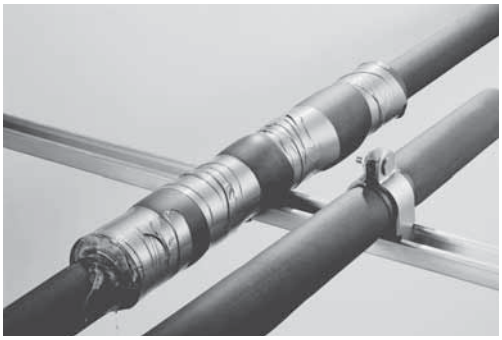


7 series strut mount
The Klo-Shure® 7 series coupling supports and secures tubing in strut mounted applications.



8 series strut mount
The new Klo-Shure® 8 series coupling installs in seconds without metal clamps.

clevis system
The Klo-Shure® clevis system locks the coupling into clevis hanger.



The patented coupling allows sections of closed-cell, elastomeric insulation to be secured at suspension points. This eliminates having to double wrap, glue, and tape insulation.

The Klo-Shure® coupling can also be used to simply join and secure two lengths of insulation.

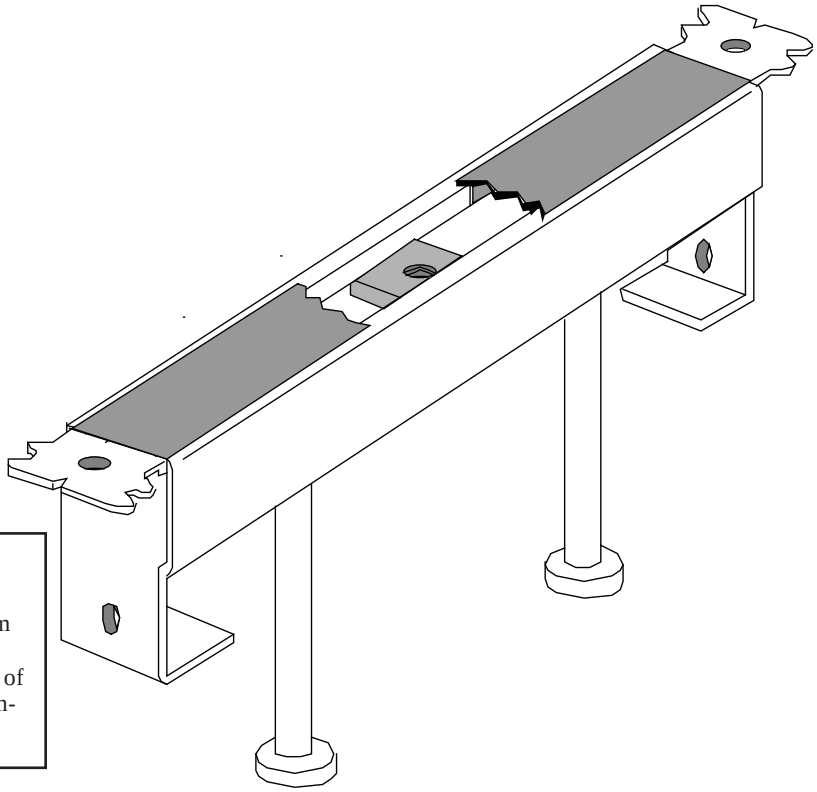
FS-9319

CONCRETE INSERT WITH STUDS AND INSTALLED NUTS

For use in heavy loading conditions; i.e. glass and stone retention; anchoring curtain wall mullions and structural grids.

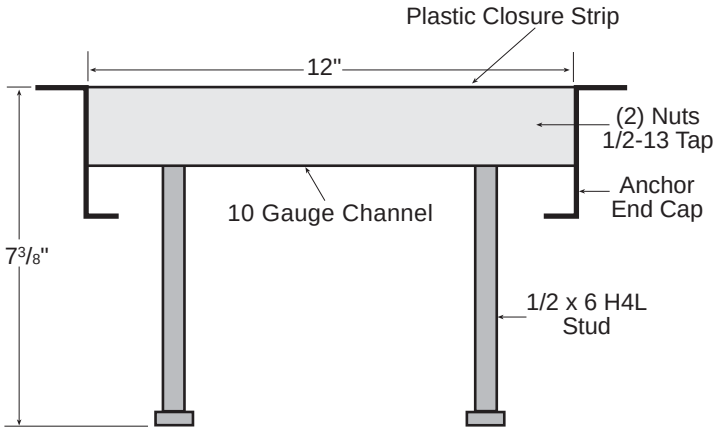
Inserts come complete with anchor end caps, plastic closure and two (2) 1/2 - 13 channel nuts factory installed.

Channel nuts should be placed a minimum of 3" on center.

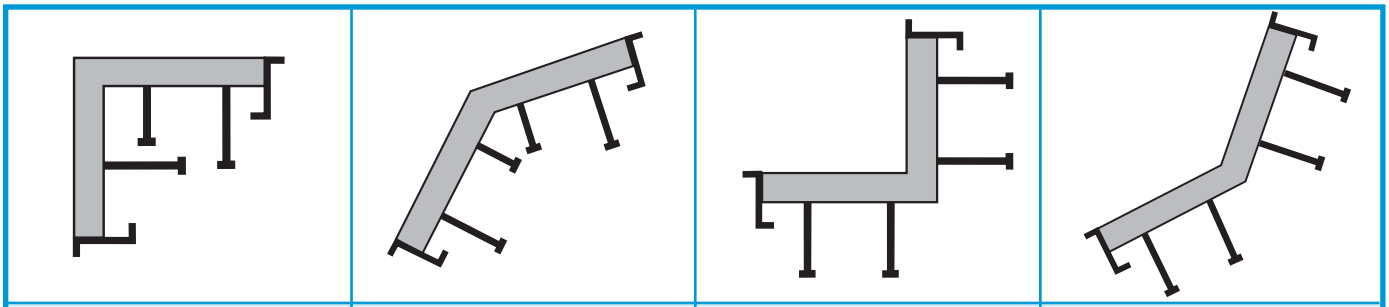


Design Load = 7,500#
Safety Factor = 2-1/2
When properly imbedded in concrete with a minimum compressive strength of 4,000 psi and a minimum edge distance of 5" from center line of insert to edge of concrete. Loading based on using a (2) nut & bolt connection with "T" clip attachment.

Design Load = 6,000#
Safety Factor = 3
When properly imbedded in concrete with a minimum compressive strength of 3,000 psi and a minimum edge distance of 2-3/4" from center line of insert to edge of concrete. Loading based on using a (2) nut & bolt connection with "T" clip attachment.



Contact factory regarding special loading conditions and special fabrications.



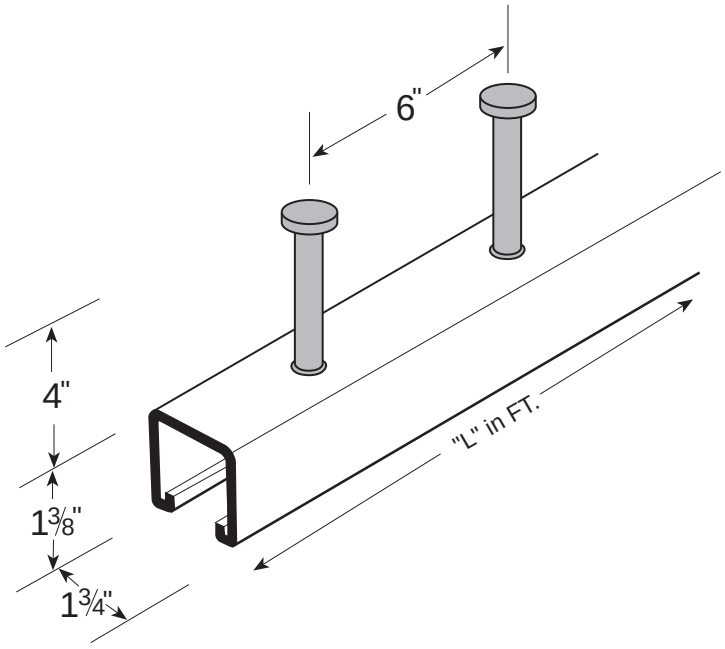
FS-9319-90 OS	FS-9319-135 OS	FS-9319-90 IS	FS-9319-135 IS
OUTSIDE CORNERS		INSIDE CORNERS	

STANDARD FINISH = ELECTRO-GALVANIZED (GD)
or HOT DIP GALVANIZED (HD)

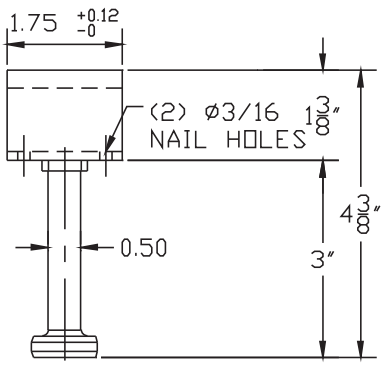
Finish: Hot Dip Galvanized
Provided with Foam Filler or Plastic Closure
Available in 1 foot increments

Design Load = 7,500 lb./Ft.
Safety Factor = 2.5
with full embedment multiple 1/2" connections

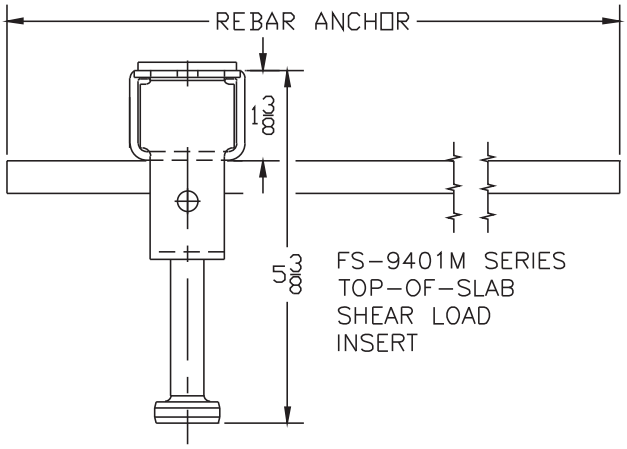
Part No.	"L"
FS-9401	1'
FS-9402	2'
FS-9403	3'
FS-9404	4'
FS-9405	5'
FS-9406	6'
FS-9407	7'
FS-9408	8'
FS-9409	9'
FS-9410	10'



SPECIAL INSERTS AVAILABLE UPON REQUEST



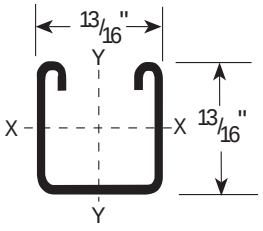
FS-93-1.75 HEAVY DUTY
SPOT INSERT



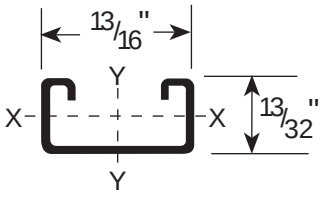
FS-9401M SERIES
TOP-OF-SLAB
SHEAR LOAD
INSERT

FS-93D19 SERIES EDGE-OF-SLAB
THIN SLAB INSERT

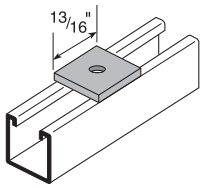
FOR FS-600 Series



FOR FS-700 Series

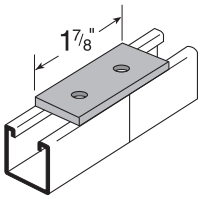


2#/Cpc



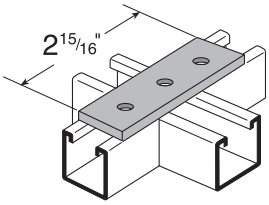
FS-8003
SQUARE WASHER

5#/Cpc



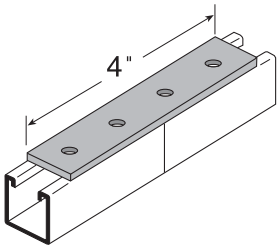
FS-8007
TWO HOLE SPLICE

8#/Cpc



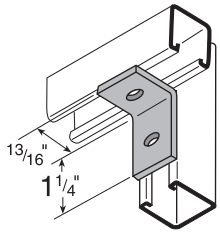
FS-8008
THREE HOLE SPLICE

10#/Cpc



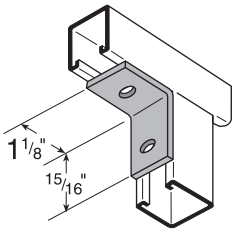
FS-8009
FOUR HOLE SPLICE

5#/Cpc



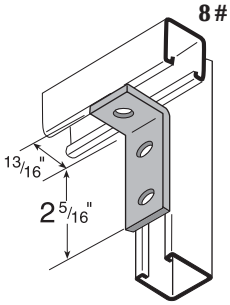
FS-8102
TWO HOLE CORNER

5#/Cpc



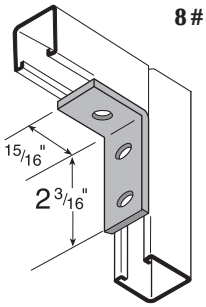
FS-8103
TWO HOLE CORNER

8#/Cpc



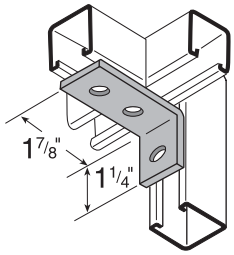
FS-8112
THREE HOLE CORNER

8#/Cpc



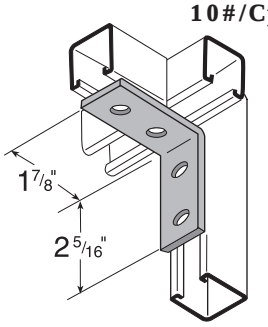
FS-8113
THREE HOLE CORNER

8#/Cpc



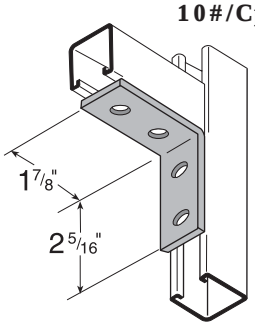
FS-8115
THREE HOLE CORNER

10#/Cpc

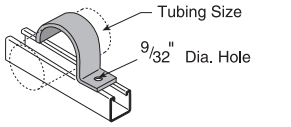


FS-8123
FOUR HOLE CORNER

10#/Cpc



FS-8125
FOUR HOLE CORNER



O.D. Tube Size	Wt./100 pcs
1/4"	
3/8"	
1/2"	2
5/8"	
3/4"	
7/8"	3
1"	

FS-8730 SERIES
TUBING CLAMPS

Thickness = 1/8" • Hole Spacing = 13/32" from End, 1 13/32" on Center • Hole Diameter = 9/32"

PART NUMBER INDEX

CHANNEL

CHANNEL NUTS

STUD NUTS

DOUBLE NUT

E.M.T. CLAMPS

RIGID CLAMPS

O.D. TUBE CLAMPS

UNIVERSAL CLAMPS

FLEX-CLAMPS Hydra-Zorb cushion clamps

FLAT PLATE FITTINGS

NINETY DEGREE ANGLES

ANGULAR FITTINGS

MISC. ANGLES

ZEE FITTINGS

"U" FITTINGS

CLEVIS FITTINGS

BRACES

WING FITTINGS

PART NUMBER INDEX