

AL-FAREED STARS FACTORY

For Metal Industries & Cable Support System



مصنع نجوم الفريد للصناعات المعدنية

AL-FAREED METAL FRAMING SYSTEM

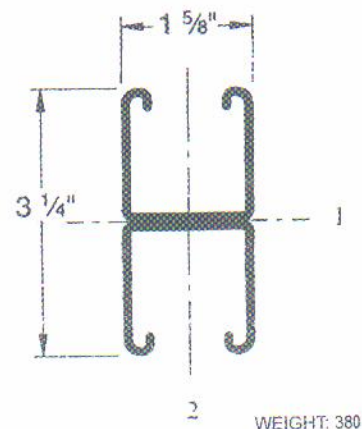


C H A N N E L

F4141-S

Diagram showing a U-shaped metal bracket. The width is labeled as $1 \frac{5}{8}"$. The text "VARIOUS HEIGHTS AVAILABLE" is shown next to the bracket.

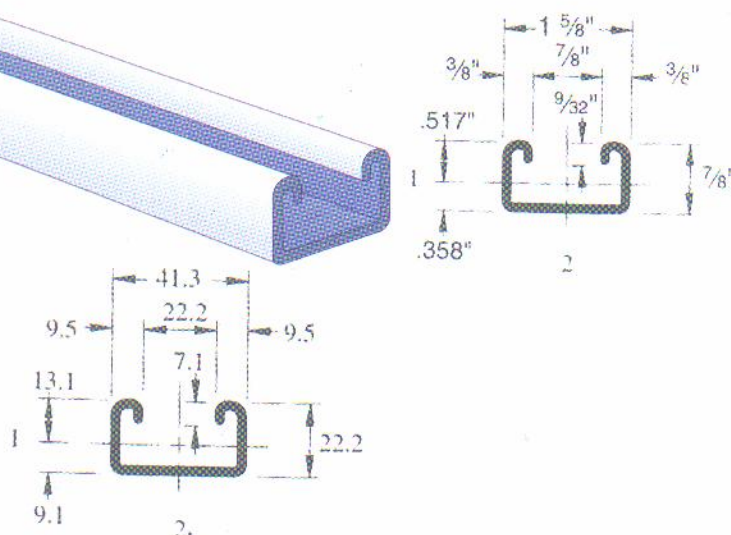
F4141-D



WEIGHT: 380

F2141

A 3D perspective diagram of a composite beam. It consists of a central rectangular core and a cylindrical shell that encases the core. The core is light blue with a fine grid pattern. The shell is a darker blue. The shell is shown as a continuous tube around the core, with a cross-section visible at the right end showing the shell's thickness.

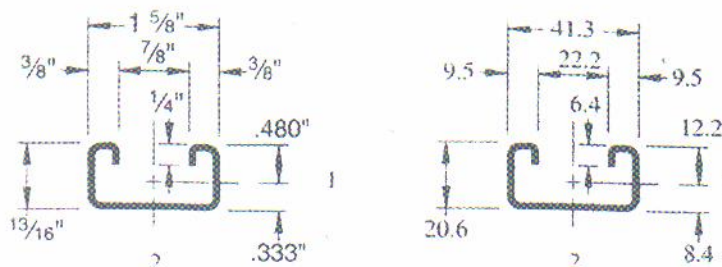
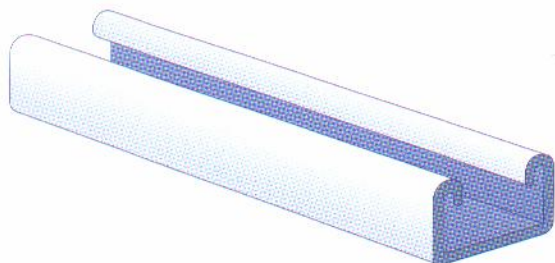


F2141 & F2141-D CHANNELS

FOR 15/8" (41-MM) WIDTH SERIES CHANNELS



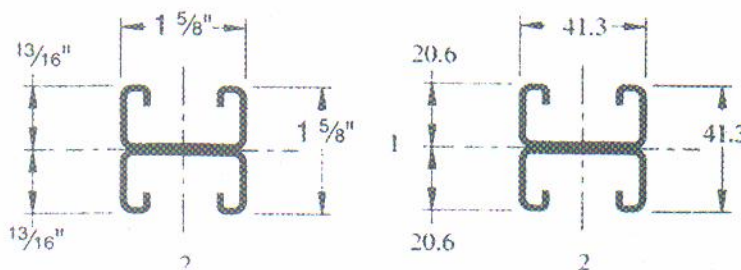
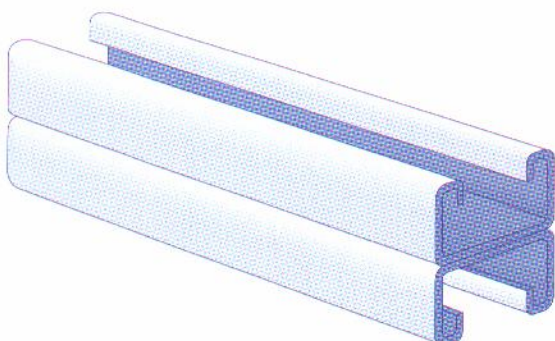
F 2141



Pierced channels are found on pages 60 and 61.

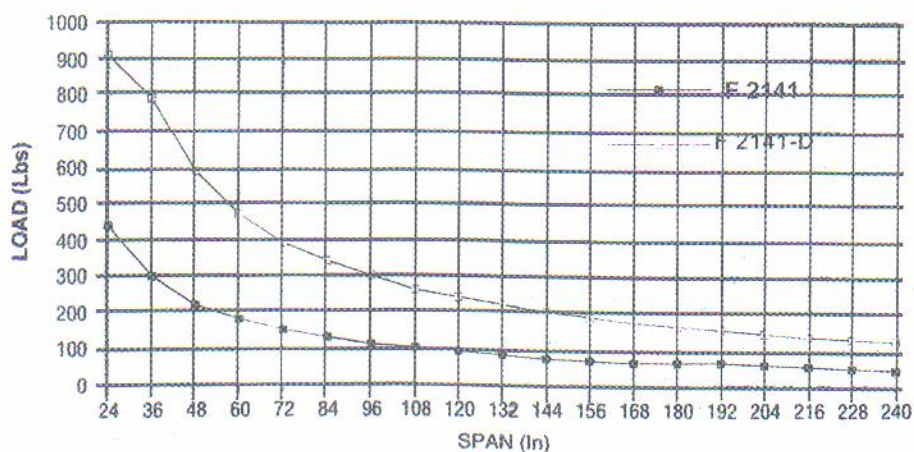
Weight: 97 Lbs/C Ft (144 kg/100 m)

F 2141-D



Weight: 194 Lbs/C Ft (289 kg/100 m)

BEAM LOAD



*Maximum allowable uniform load.

Channel	Weight		Allowable Moment		Material Thickness		Standard Lengths		Finishes				Other Materials	
	Lbs/Ft	kg/m	In-Lb	N-m	In	mm	10'	20'	PL	GR	HG	PG	SS	EA
F2141	.97	1.4	1,330	150	.075	1.9								
F2141-D	1.94	2.9	3,550	400	.075	1.9								

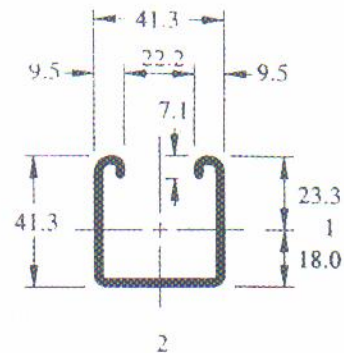
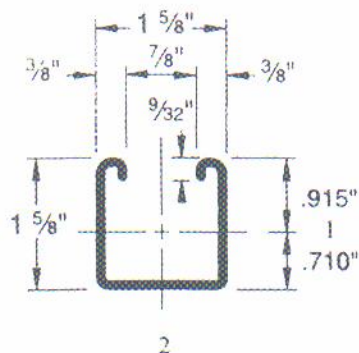
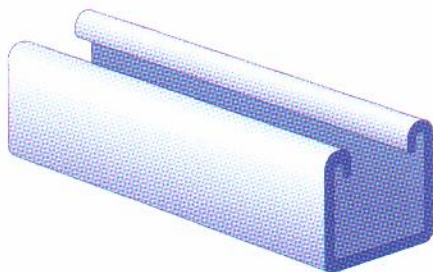
Note: Thickness available in 1.5 mm, 1.9 mm, 2.0 mm, 2.5 mm, & 2.7 mm

F2141 & F2141-D CHANNELS

FOR 1 5/8" (41-MM) WIDTH SERIES CHANNELS

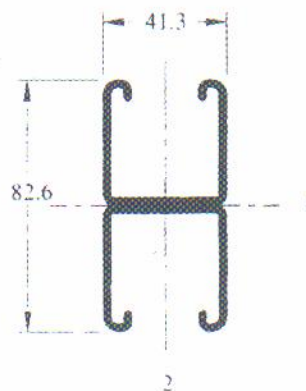
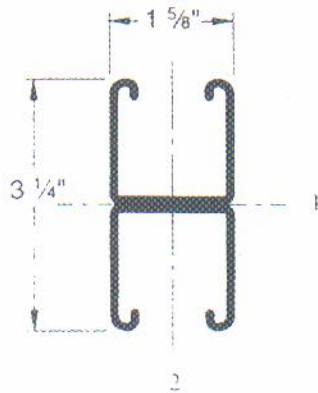
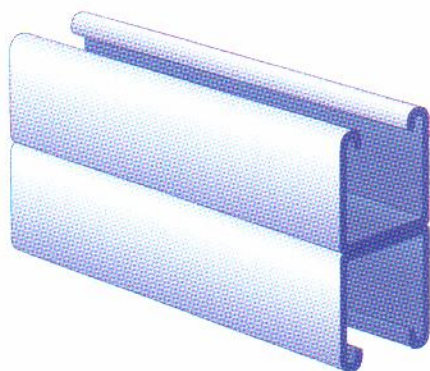


F4141



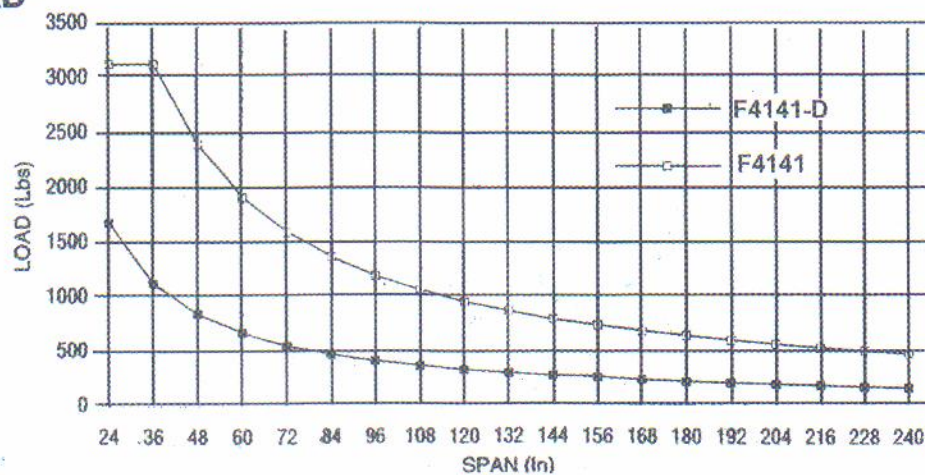
Weight: 190 Lbs/C Ft (283 kg/100 m)

F4141-D



Weight: 380 Lbs/C Ft (566 kg/100 m)

BEAM LOAD*



*Maximum allowable uniform load.

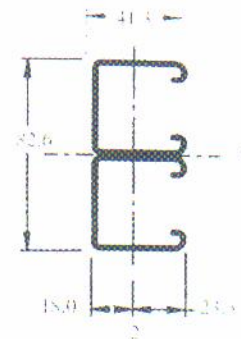
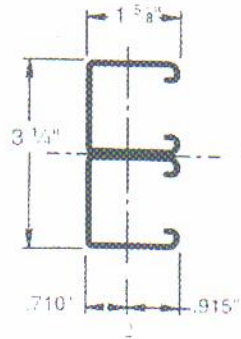
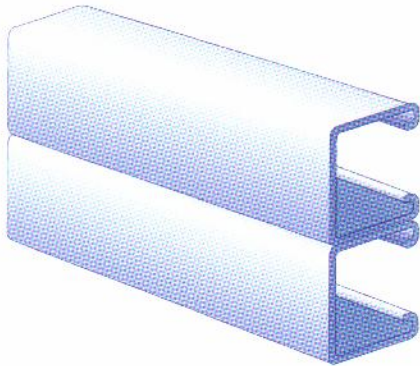
Channel	Weight		Allowable Moment		Material Thickness		Standard Lengths		Finishes				Other Materials	
	Lbs/Ft	kg/m	in-Lb	N-m	in	mm	3 m	6 m	PL	GR	HG	PG	SS	AL
F4141	1.90	2.8	5,080	570	.105	2.7	■	■	■	■	■	■	■	■
F4141-D	3.80	5.7	14,390	1630	.105	2.7	■	■	■	■	■	■	■	■

Note: Thickness available in 1.5 mm, 1.9 mm, 2.0 mm, 2.5 mm, & 2.7 mm

CHANNEL COMBINATIONS FOR 1⁵/₈" (41-MM) WIDTH SERIES CHANNELS

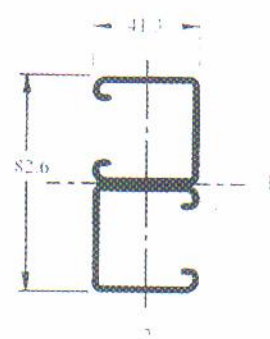
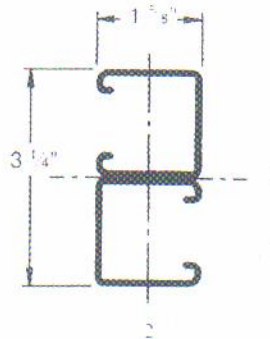
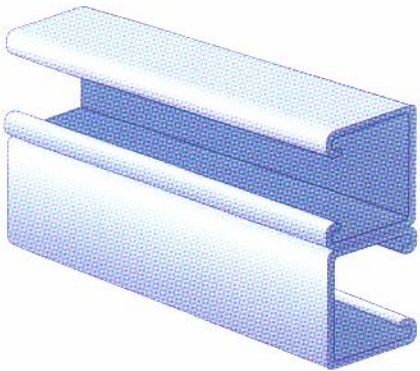


F4141-D3



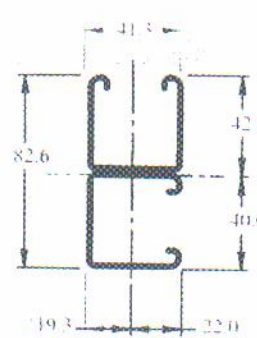
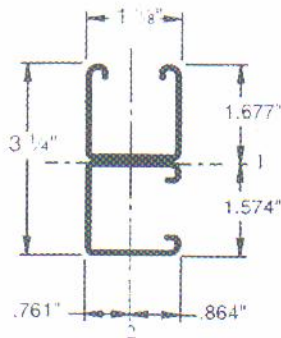
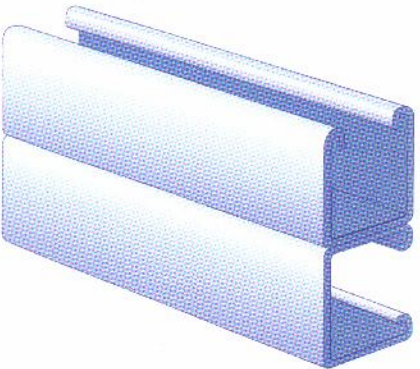
Weight: 380 Lbs/C Ft (566 kg/100 m)

F4141-D2



Weight: 380 Lbs/C Ft (566 kg/100 m)

F4141-D1



Weight: 380 Lbs/C Ft (566 kg/100 m)

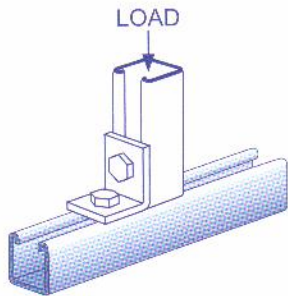
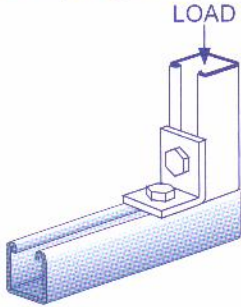
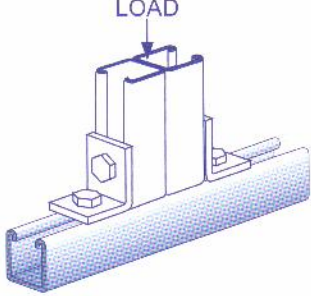
Channel	Weight		Allowable Moment		Material Thickness		Standard Lengths		Finishes				Other Materials	
	Lbs/Ft	kg/m	In-Lb	N·m	In	mm	3 mtr	6 mtr	PL	GR	HG	PG	SS	AL
F4141-D3	3.80	5.7	18.660	2110	0.077	2.7	■	■	■	■	■	■		
F4141-D2	3.80	5.7	18.660	2110	0.077	2.7	■	■	■	■	■	■		
F4141-D1	3.80	5.7	15.970	1800	0.077	2.7	■	■	■	■	■	■		

Note: Thickness available in 1.5 mm, 1.9 mm, 2.0 mm, 2.5 mm, & 2.7 mm

BEARING LOADS FOR CHANNEL & COMBINATION FOR 15/8" (41-MM) WIDTH SERIES CHANNELS



BEARING LOADS ON CHANNELS

	Bearing Length 1 5/8" (41 mm)		Bearing Length 1 5/8" (41 mm)		Bearing Length 3 1/4" (92 mm)	
						
Channel	Maximum Allowable Loads		Maximum Allowable Loads		Maximum Allowable Loads	
	Lbs	kN	Lbs	kN	Lbs	kN
F 4141	5000	22.2	3500	15.6	8000	35.6
F 4141	3500	15.6	2500	11.1	5500	24.5
F 4141	2000	8.9	1500	6.7	3000	13.3
F 4141	5 00	22.2	3500	15.6	8000	35.6
F 4141	6 00	26.7	4000	17.8	9000	40.0
F 2141	2200	9.8	1700	7.6	3500	15.6
F 2141	3400	15.1	2600	11.6	4800	21.4

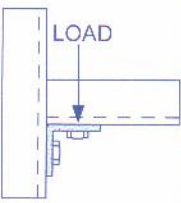
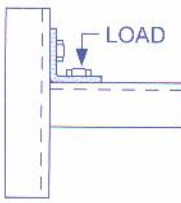
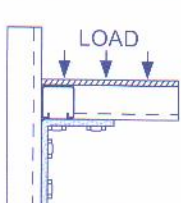
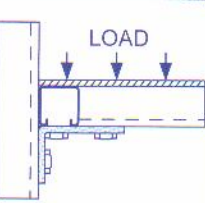
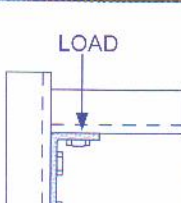
Safety Factor — 2½

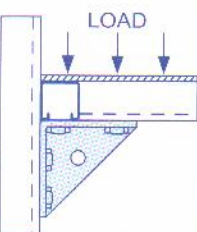
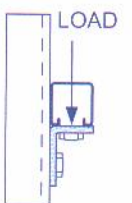
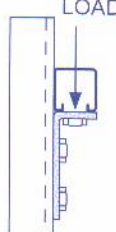
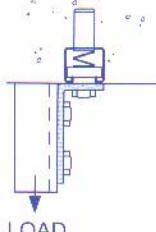
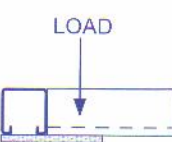
DESIGN LOAD DATA

FOR 15/8" (41-MM) WIDTH SERIES CHANNELS



DESIGN LOAD DATA FOR TYPICAL SLOTTED CHANNEL CONNECTIONS

90° Fittings (When used in position shown)										
Channel Thickness	 F1026		 F1026		 1325 F2235		 F1458 F1579		 F1346	
	Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN
12 ga.	1500	6.7	1000	4.4	2000	8.9	1500	6.7	2000	8.9
14 ga.	1000	4.4	650	2.9	2000	8.9	1000	4.4	1500	6.7
16 ga.	750	3.3	500	2.2	1500	6.7	1000	4.4	900	4.0

90° Fittings (When used in position shown)									Flat Plate Fittings	
Channel Thickness	 F2484		 F1068		 F1326		 F1346		 F1065	
	Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN
12 ga.	3000	13.3	500	2.2	500	2.2	1200	5.3	1000	4.4
14 ga.	2000	8.9	500	2.2	500	2.2	1200	5.3	800	3.6
16 ga.	1500	6.7	500	2.2	500	2.2	1000	4.4	600	2.7

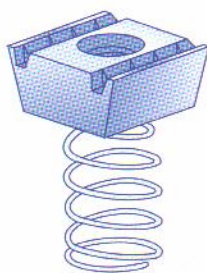
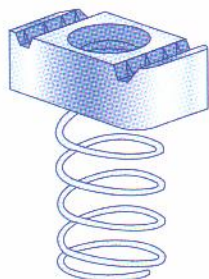
Both ends of beams supported.

Load diagrams indicate up to three design loads, one for 12 gage sections (F4141), one for 14 gage sections (P1100), and one for 16 gage sections (F4141).

Load data is based on F4141 nut and 1/2" bolt.

Safety factor = 2½ based on ultimate strength of connection.

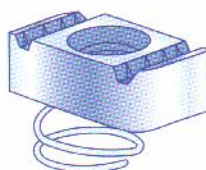
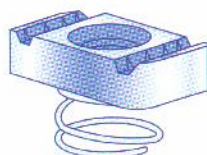
CHANNEL NUTS WITH SPRINGS FOR 15/8" (41-MM) WIDTH SERIES CHANNELS



CHANNEL NUTS WITH SPRINGS

Size & Thread	Weight/C	
	Lbs	kg
#8 - 32	7	3.2
#10 - 24	7	3.2
1/4" - 20	7	3.2
5/16" - 18	6	2.7
3/8" - 16	10	4.5
7/16" - 14	9	4.1
1/2" - 13	12	5.4

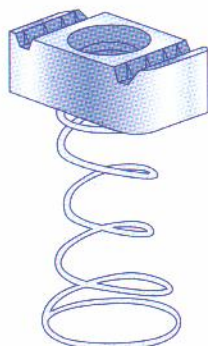
5/8" - 11	21	9.5
3/4" - 10	21	9.5
7/8" - 9	21	9.5



CHANNEL NUTS WITH SPRINGS

Size & Thread	Weight/C	
	Lbs	kg
#8 - 32	7	3.2
#10 - 24	7	3.2
1/4" - 20	7	3.2
5/16" - 18	6	2.7
3/8" - 16	9	4.1
7/16" - 14	9	4.1
1/2" - 13	8	3.6

5/8" - 11	11	5.0
3/4" - 10	11	5.0



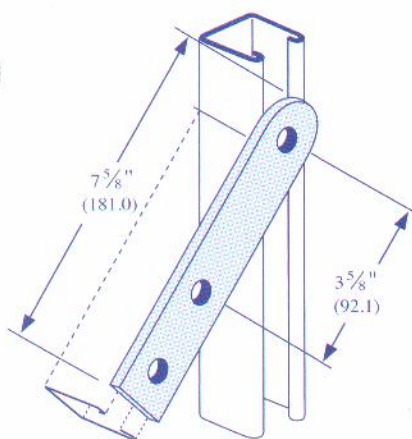
CHANNEL NUTS WITH SPRINGS

Size & Thread	Weight/C	
	Lbs	kg
#8 - 32	7	3.2
#10 - 24	7	3.2
1/4" - 20	7	3.2
5/16" - 18	6	2.7
3/8" - 16	10	4.5
7/16" - 14	10	4.5
1/2" - 13	12	5.4

FLAT PLATE FITTINGS FOR 15/8" (41-MM) WIDTH SERIES CHANNELS

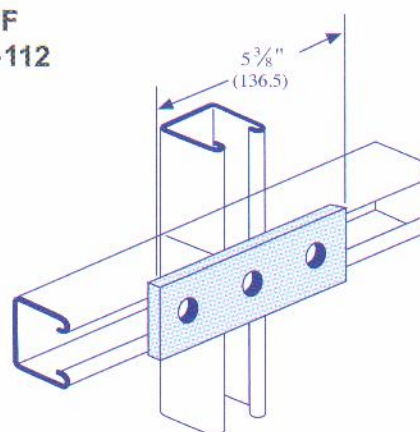


**FPF
41 - 111**



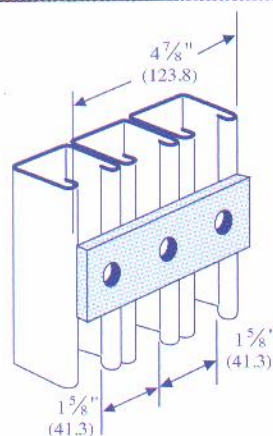
W/C 75 Lbs (34.0 kg)

**FPF
41-112**



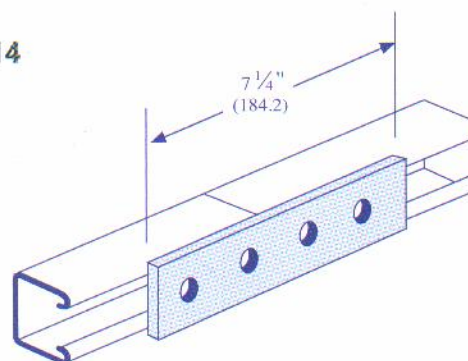
W/C 56 Lbs (25.4 kg)

**FPF
41 -113**



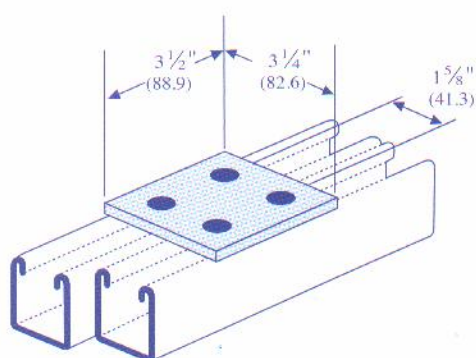
W/C 50 Lbs (22.7 kg)

**FPF
41-114**



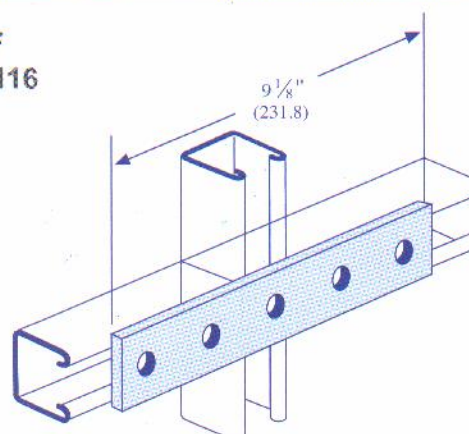
W/C 78 Lbs (35.4 kg)

**FPF
41-115**



W/C 73 Lbs (33.1 kg)

**FPF
41-116**



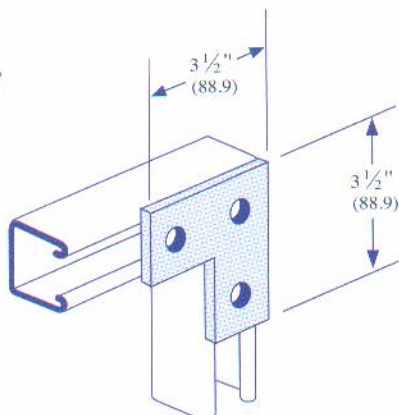
W/C 94 Lbs (42.6 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 17/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

FLAT PLATE FITTINGS FOR 1⁵/₈" (41-MM) WIDTH SERIES CHANNELS

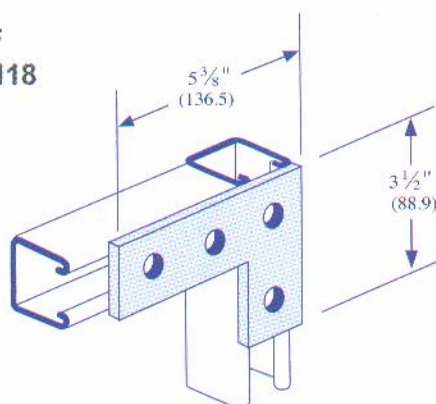


**FPF
41-117**



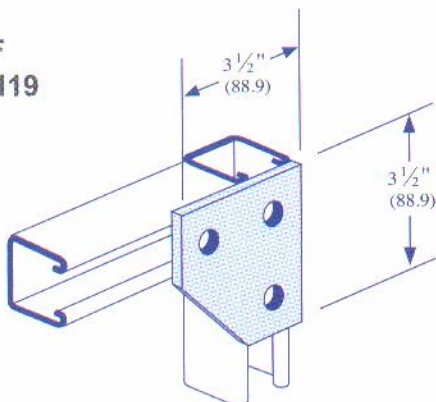
Wt/C 58 Lbs (26.3 kg)

**FPF
41-118**



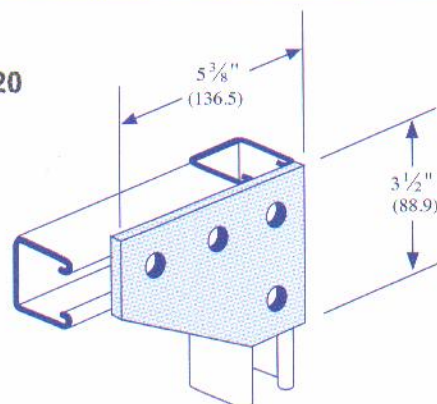
Wt/C 80 Lbs (36.3 kg)

**FPF
41-119**



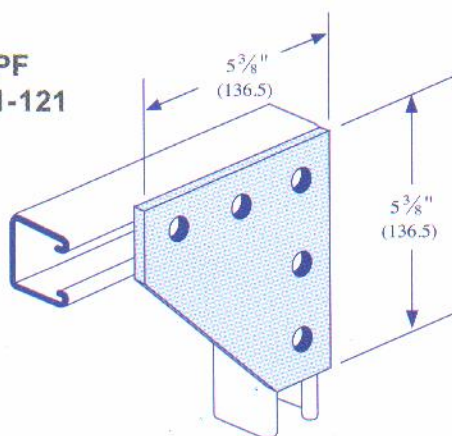
Wt/C 70 Lbs (31.8 kg)

**FPF
41-120**



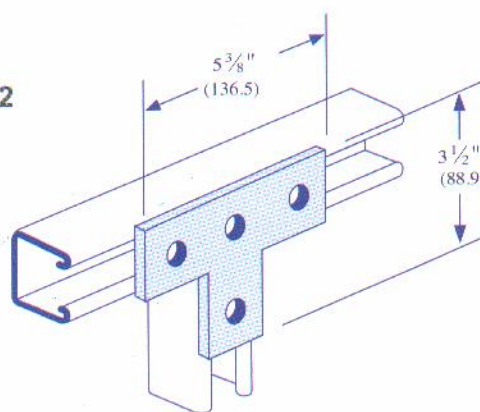
Wt/C 105 Lbs (47.6 kg)

**FPF
41-121**



Wt/C 150 Lbs (68.0 kg)

**FPF
41-122**



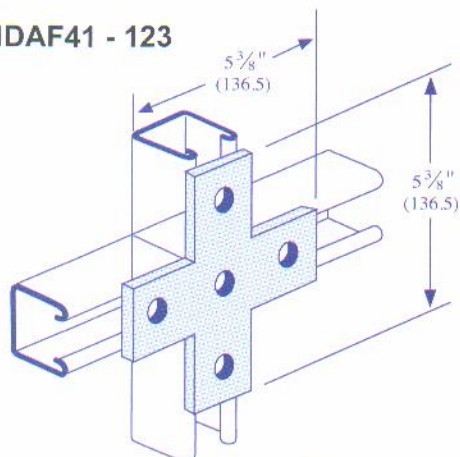
Wt/C 80 Lbs (36.3 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 17/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

FLAT PLATE FITTINGS FOR 1⁵/₈" (41-MM) WIDTH SERIES CHANNELS

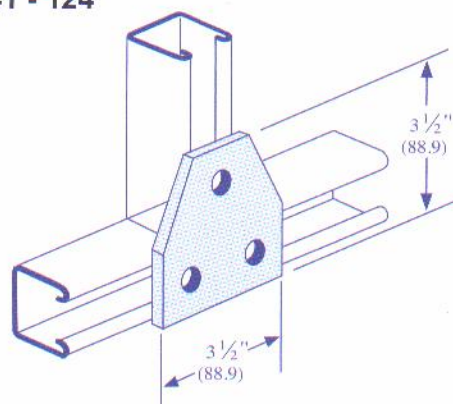


NDAF41 - 123



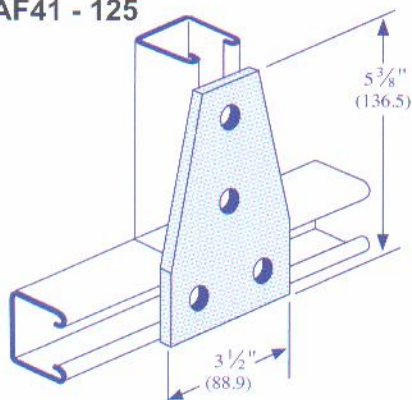
Wt/C 105 Lbs (47.6 kg)

NDAF41 - 124



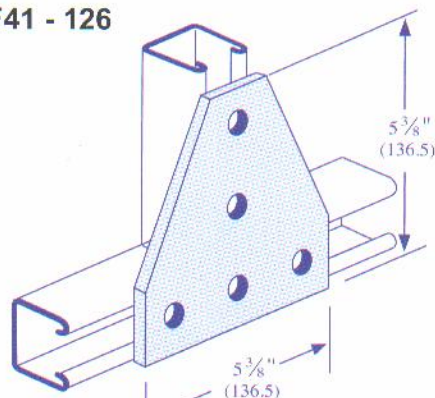
Wt/C 70 Lbs (31.8 kg)

NDAF41 - 125



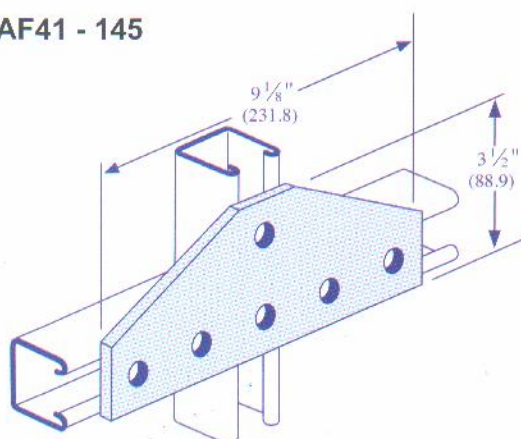
Wt/C 105 Lbs (47.6 kg)

NDAF41 - 126



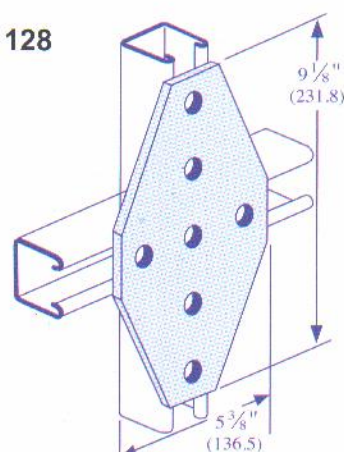
Wt/C 148 Lbs (67.1 kg)

NDAF41 - 145



Wt/C 176 Lbs (79.8 kg)

NDAF41 - 128



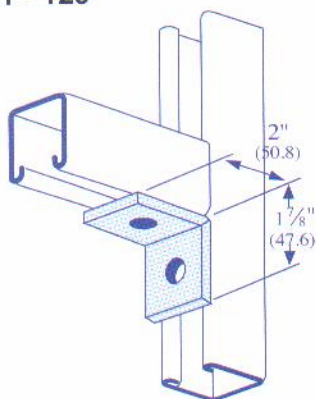
Wt/C 240 Lbs (108.9 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 17/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

NINETY DEGREE ANGLE FITTINGS FOR 1⁵/₈" (41-MM) WIDTH SERIES CHANNELS

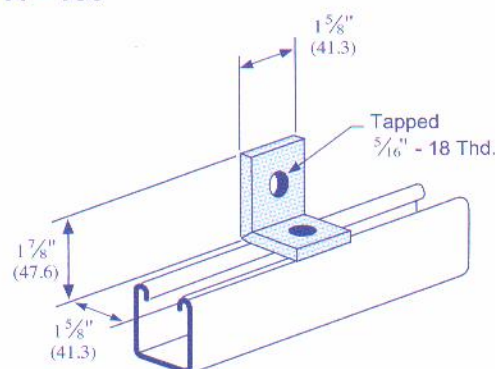


NDAF41 - 129



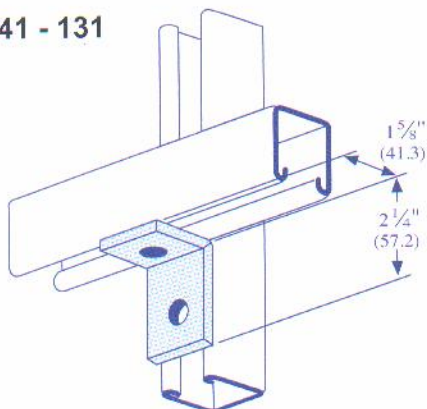
Wt/C 38 Lbs (17.2 kg)

NDAF41 - 130



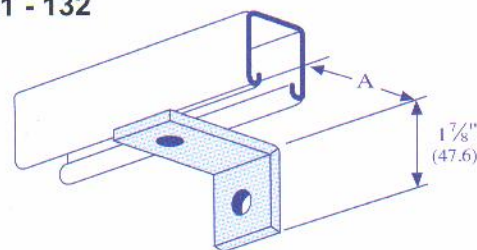
Wt/C 34 Lbs (15.4 kg)

NDAF41 - 131



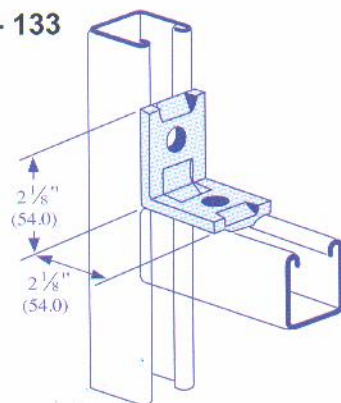
Wt/C 38 Lbs (17.2 kg)

NDAF41 - 132



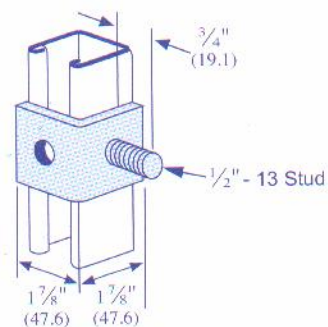
Part Number	"A" Dimension		Weight/C	
	In	mm	Lbs	kg
P1281	3	76.2	49	22.2
P1282	3 1/2	88.9	54	24.5
P1283	4	101.9	61	27.7

NDAF41 - 133



Wt/C 40 Lbs (18.1 kg)

NDAF41 - 134



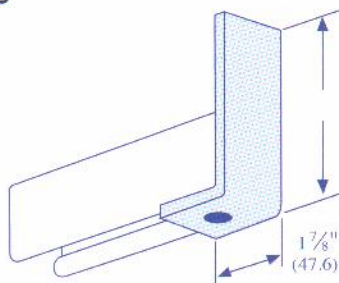
Wt/C 45 Lbs (20.4 kg)

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

NINETY DEGREE ANGLE FITTINGS FOR 1⁵/₈" (41-MM) WIDTH SERIES CHANNELS

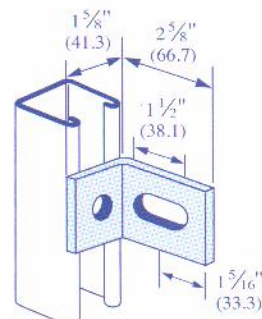


NDAF41 - 135



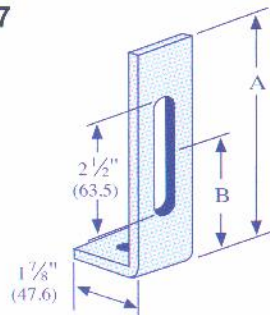
Part Number	"A" Dimension		Weight/C	
	In	mm	Lbs	kg
P1538 A	3 ⁷ / ₈	98.4	61	27.2
P1538 B	5 ⁷ / ₈	149.2	84	38.1
P1538 C	7 ⁷ / ₈	200.0	107	45.5
P1538 D	9 ⁷ / ₈	250.8	130	59.0

NDAF41 - 136



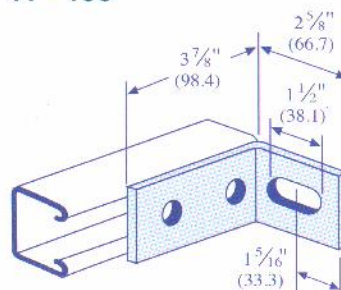
Wt/C 38 Lbs (17.2 kg)

NDAF41 - 137



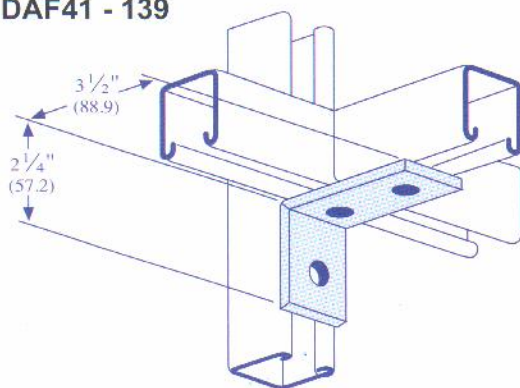
Part Number	"A"		"B"		Weight/C	
	In	mm	In	mm	Lbs	kg
P1498	4 ⁷ / ₈	123.8	2 1/2	63.5	65	29.5
P1499	6 ⁷ / ₈	174.6	4 1/2	114.3	85	38.6

NDAF41 - 138



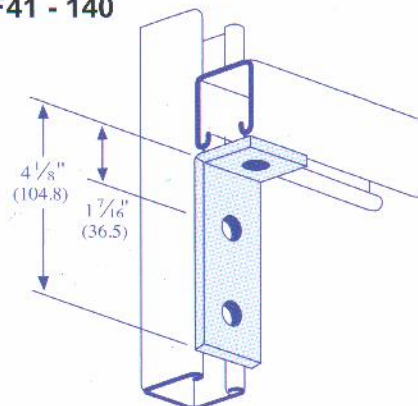
Wt/C 66 Lbs (29.9 kg)

NDAF41 - 139



Wt/C 58 Lbs (26.3 kg)

NDAF41 - 140



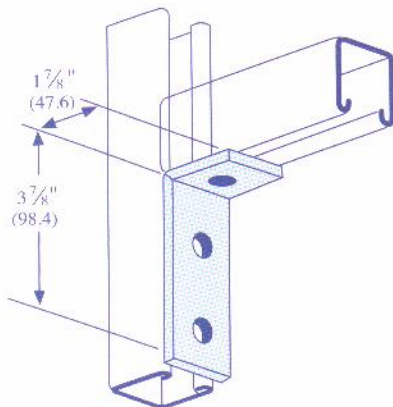
Wt/C 58 Lbs (26.3 kg)

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

NINETY DEGREE ANGLE FITTINGS FOR 15/8" (41-MM) WIDTH SERIES CHANNELS

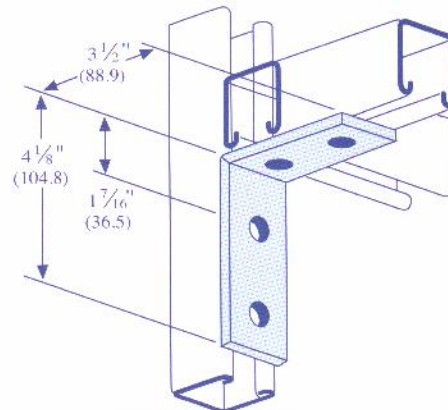


NDAF41 - 141



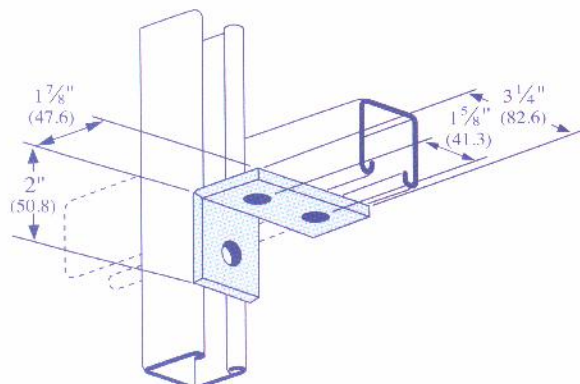
Wt/C 58 Lbs (26.3 kg)

NDAF41 - 142



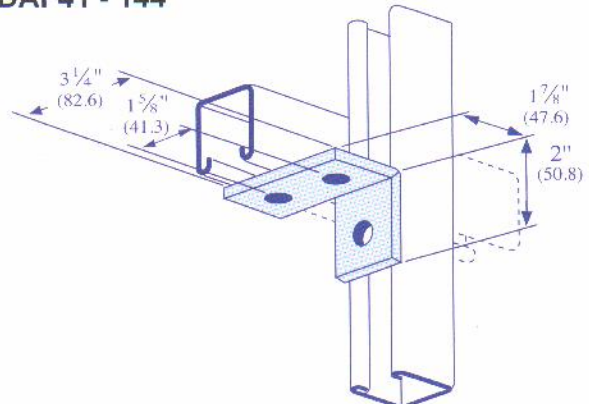
Wt/C 78 Lbs (35.4 kg)

NDAF41 - 143



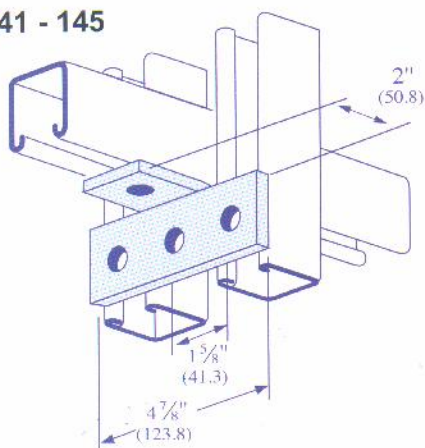
Wt/C 55 Lbs (24.9 kg)

NDAF41 - 144



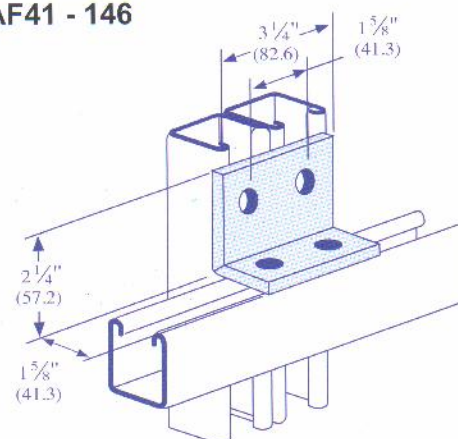
Wt/C 55 Lbs (24.9 kg)

NDAF41 - 145



Wt/C 71 Lbs (32.2 kg)

NDAF41 - 146



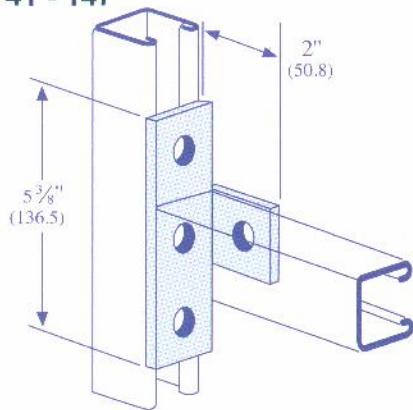
Wt/C 75 Lbs (34.0 kg)

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

NINETY DEGREE ANGLE FITTINGS FOR 1 5/8" (41-MM) WIDTH SERIES CHANNELS

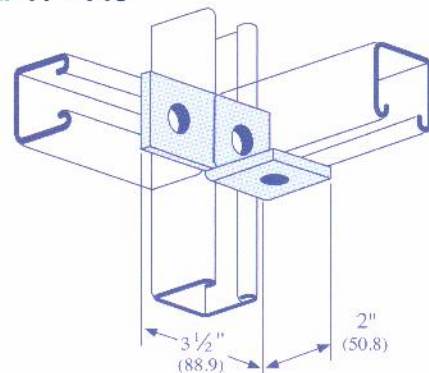


NDAF41 - 147



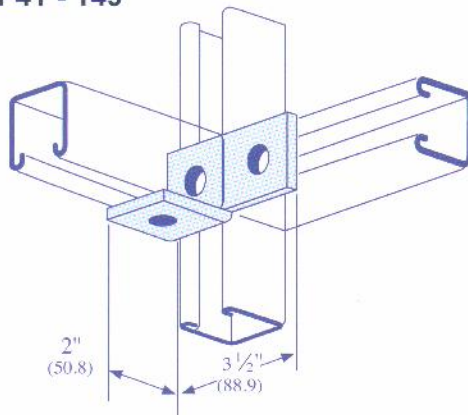
Wt/C 80 Lbs (36.3 kg)

NDAF41 - 148



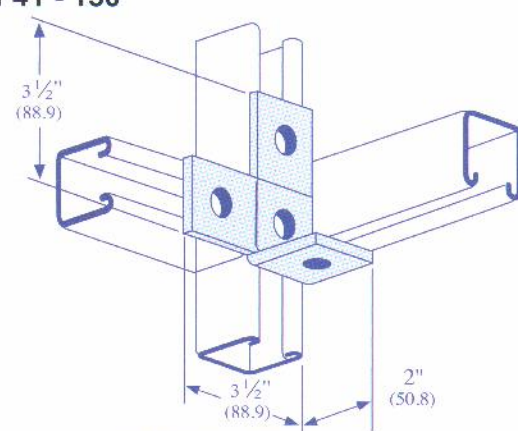
Wt/C 58 Lbs (26.4 kg)

NDAF41 - 149



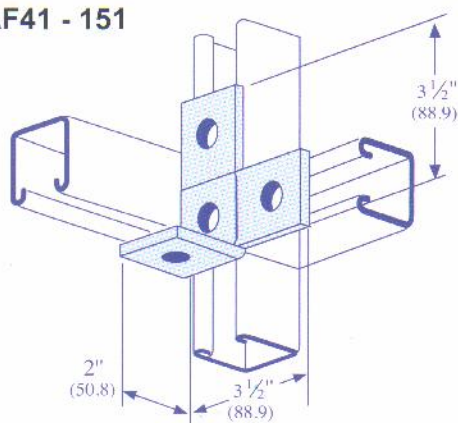
Wt/C 58 Lbs (26.3 kg)

NDAF41 - 150



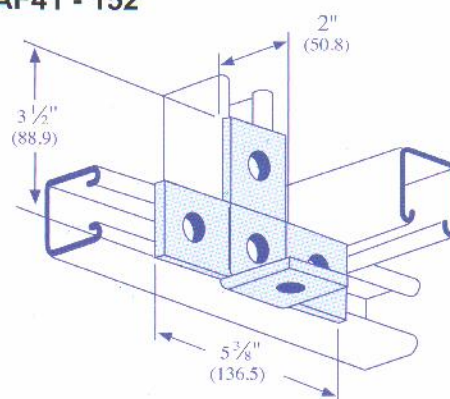
Wt/C 55 Lbs (25.0 kg)

NDAF41 - 151



Wt/C 80 Lbs (36.3 kg)

NDAF41 - 152



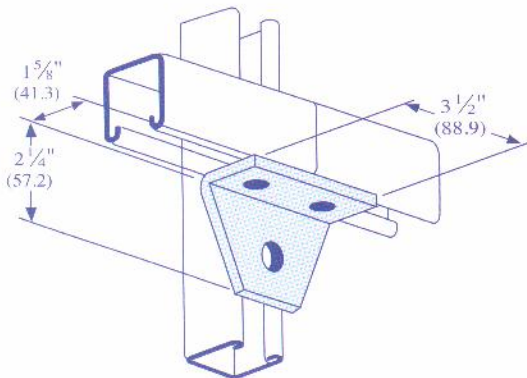
Wt/C 105 Lbs (47.6 kg)

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

NINETY DEGREE ANGLE FITTINGS FOR 1⁵/₈" (41-MM) WIDTH SERIES CHANNELS

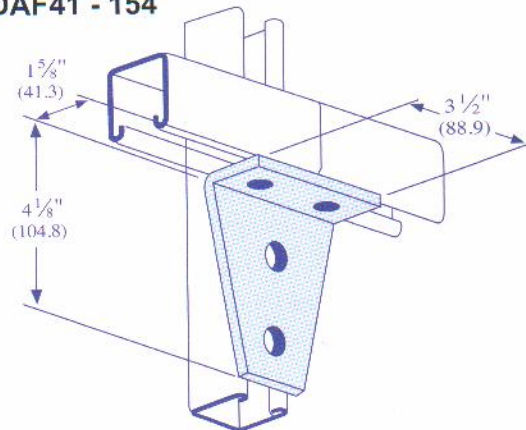


NDAF41 - 153



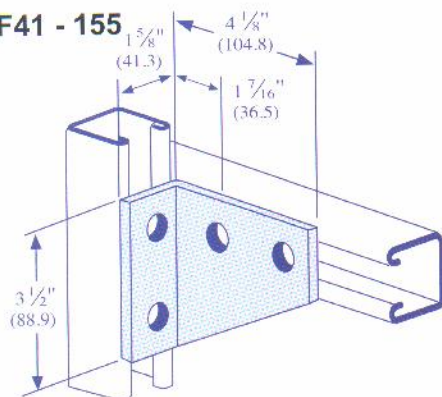
Wt/C 70 Lbs (31.8 kg)

NDAF41 - 154



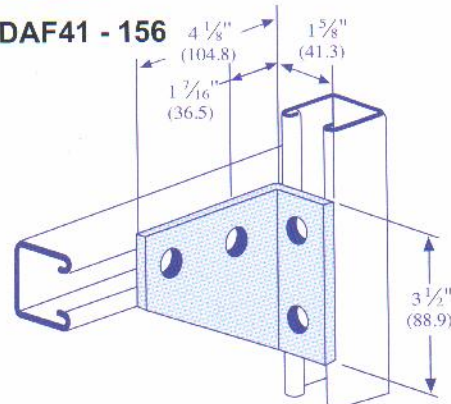
Wt/C 105 Lbs (47.6 kg)

NDAF41 - 155



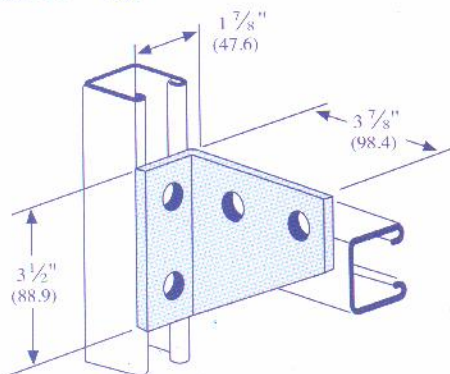
Wt/C 105 Lbs (47.6 kg)

NDAF41 - 156



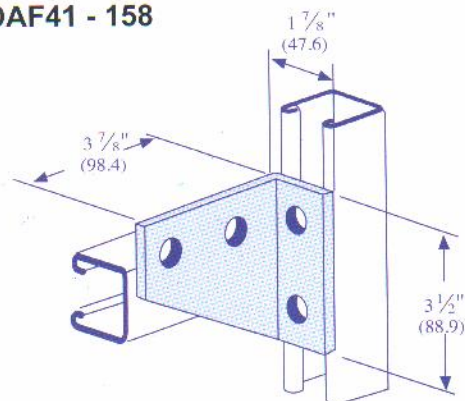
Wt/C 105 Lbs (47.6 kg)

NDAF41 - 157



Wt/C 101 Lbs (45.8 kg)

NDAF41 - 158



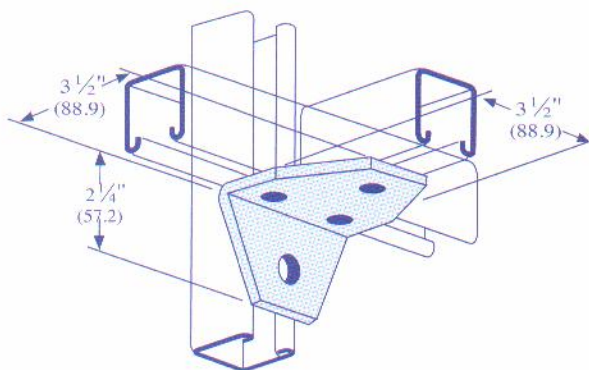
Wt/C 101 Lbs (45.8 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 17/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

NINETY DEGREE ANGLE FITTINGS FOR 15/8" (41-MM) WIDTH SERIES CHANNELS

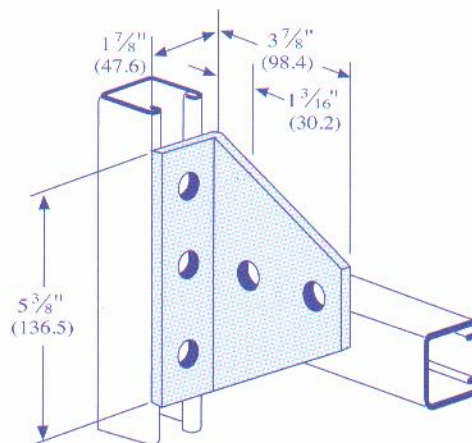


NDAF41 - 159



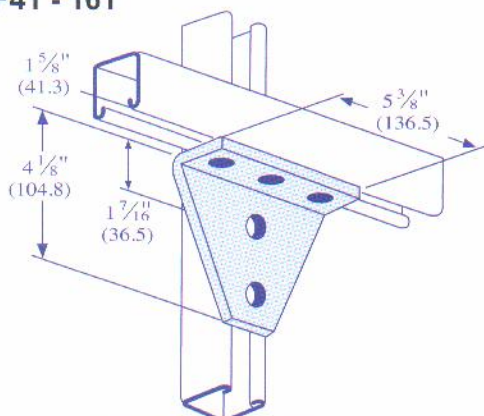
Wt/C 103 Lbs (46.7 kg)

NDAF41 - 160



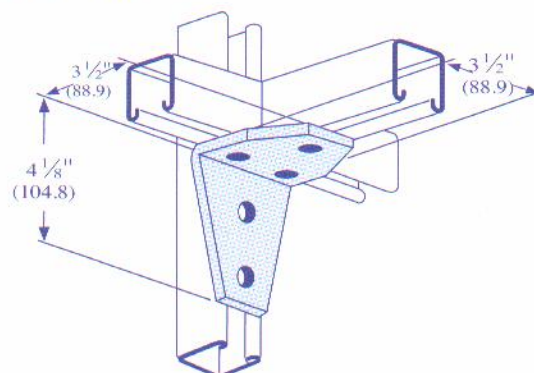
Wt/C 154 Lbs (69.9 kg)

NDAF41 - 161



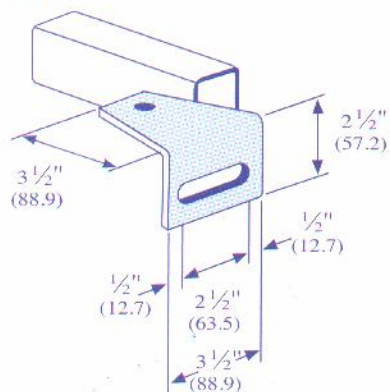
Wt/C 154 Lbs (69.9 kg)

NDAF41 - 162



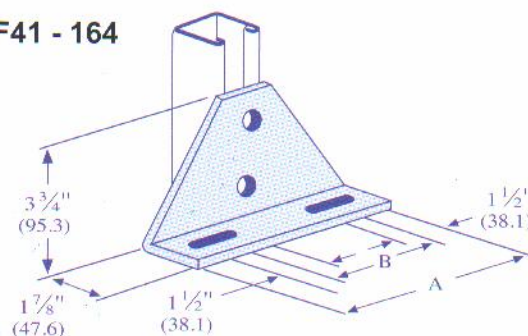
Wt/C 135 Lbs (61.2 kg)

NDAF41 - 163



Wt/C 97 Lbs (44.0 kg)

NDAF41 - 164



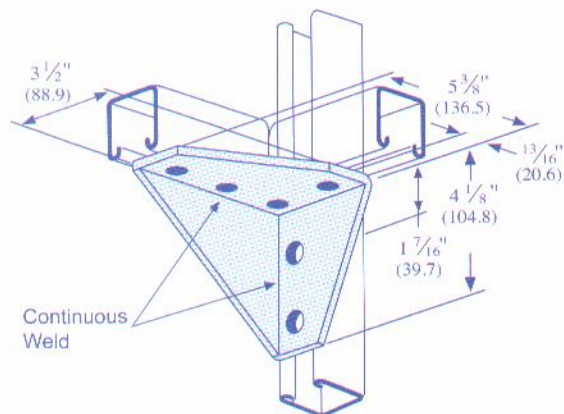
Part Number	"A"		"B"		Weight/C	
	In	mm	In	mm	Lbs	kg
P1130	6 5/8	168.3	4	101.6	190	86.2
P1131	8 5/8	219.1	6	152.4	242	109.8

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 17/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

NINETY DEGREE ANGLE FITTINGS FOR 1⁵/₈" (41-MM) WIDTH SERIES CHANNELS

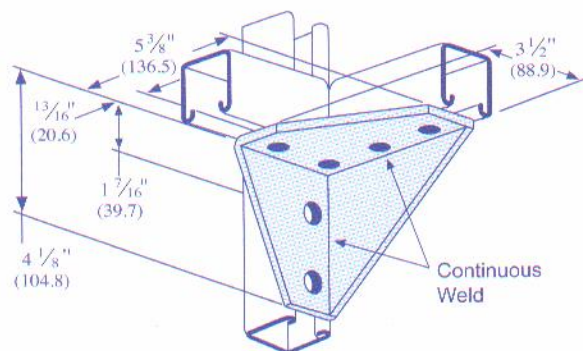


NDAF41 - 165



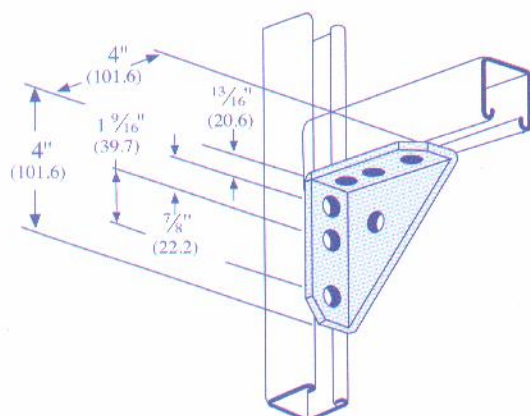
Wt/C 230 Lbs (104.3 kg)

NDAF41 - 166



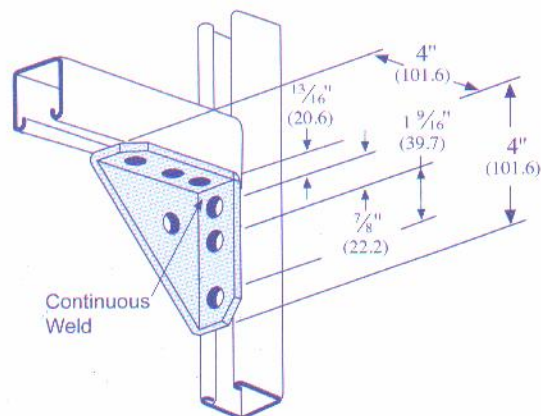
Wt/C 230 Lbs (104.3 kg)

NDAF41 - 167



Wt/C 134 Lbs (60.8 kg)

NDAF41 - 168



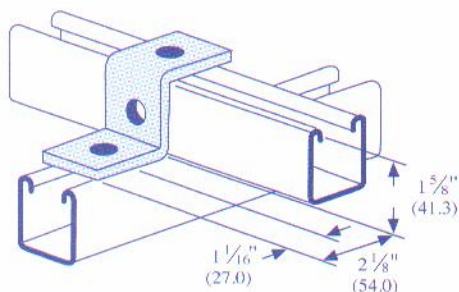
Wt/C 134 Lbs (60.8 kg)

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

" Z " SHAPE FITTINGS FOR 1⁵/₈" (41-MM) WIDTH SERIES CHANNELS

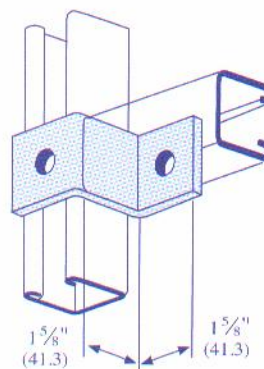


ZSF41 - 169



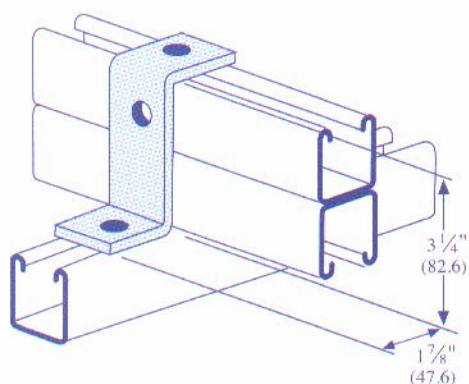
Wt/C 55 Lbs (24.9 kg)

ZSF41 - 170



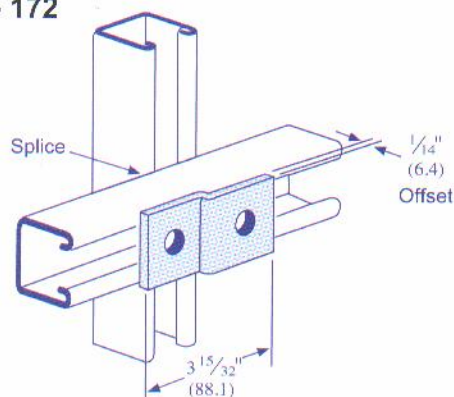
Wt/C 55 Lbs (24.9 kg)

ZSF41 - 171



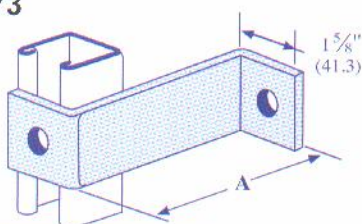
Wt/C 70 Lbs (31.8 kg)

ZSF41 - 172



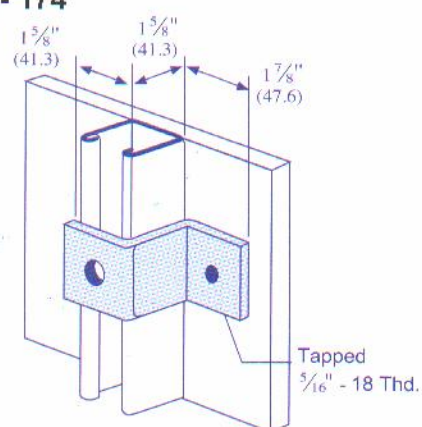
Wt/C 38 Lbs 17.2 kg)

NDAF41 - 173



Part Number	"A" Dimension		Weight/C	
	In	mm	Lbs	kg
	4	101.6	81	36.7
	5	127.0	92	41.7
	6	152.4	104	47.2
	7	177.8	115	52.2
	8	203.2	127	57.6

NDAF41 - 174



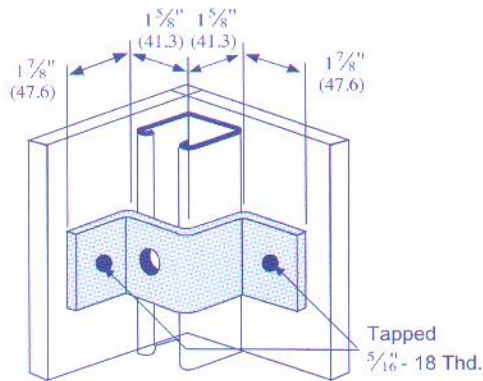
Wt/C 54 Lbs (24.5 kg)

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

" Z " SHAPE FITTINGS FOR 15/8" (41-MM) WIDTH SERIES CHANNELS

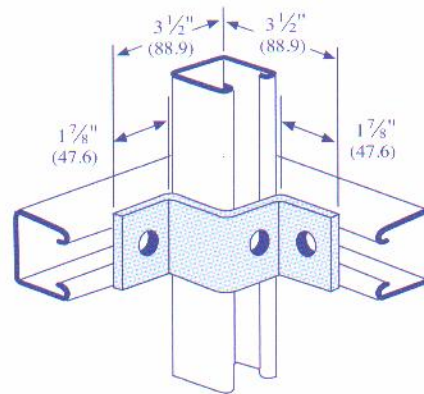


ZSF41 - 175



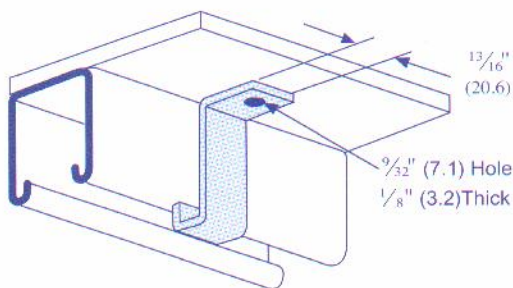
Wt/C 70 Lbs (31.8 kg)

ZSF41 - 176



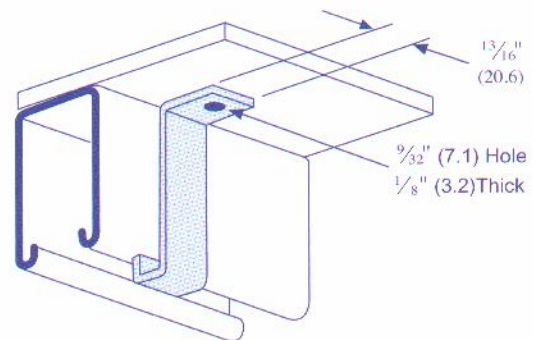
Wt/C 70 Lbs (31.8 kg)

ZSF41 - 210



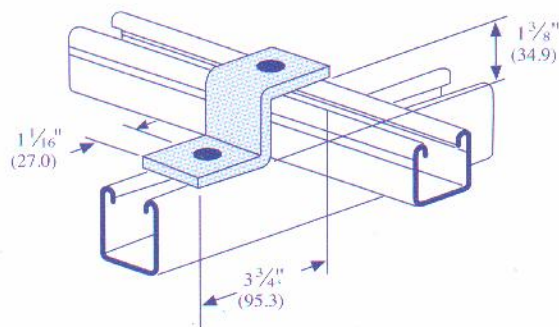
Wt/C 9 Lbs (4.1 kg)

ZSF41 - 178



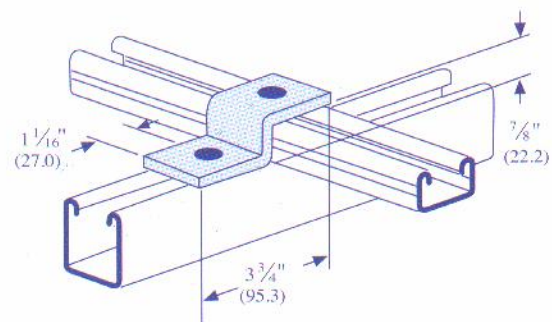
Wt/C 11 Lbs (5.0 kg)

ZSF41 - 179



Wt/C 53 Lbs (24.0 kg)

ZSF41 - 180



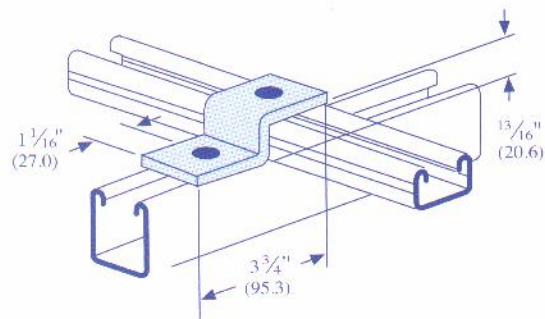
Wt/C 47 Lbs (21.3 kg)

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

" Z " & " U " SHAPE FITTINGS FOR 1 5/8" (41-MM) WIDTH SERIES CHANNELS

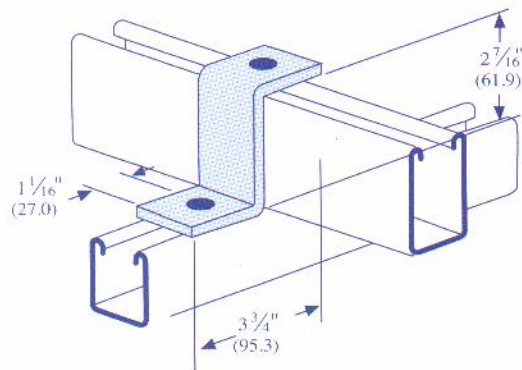


ZSF41 - 181



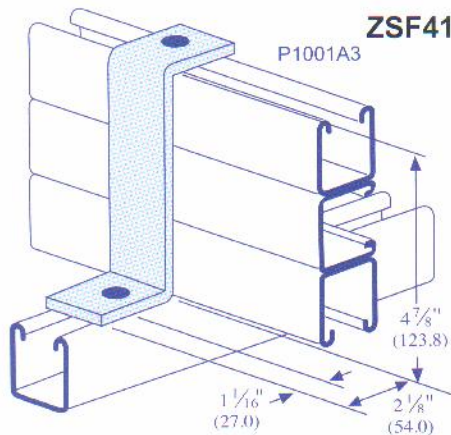
Wt/C 47 Lbs (21.3 kg)

ZSF41 - 182



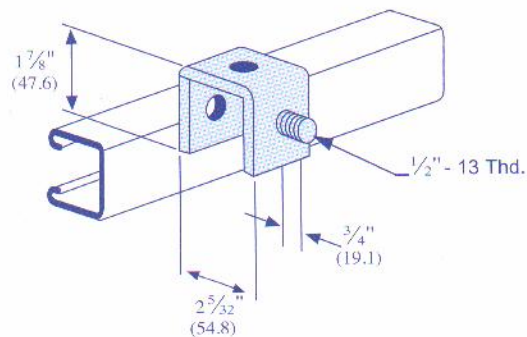
Wt/C 67 Lbs (30.4 kg)

ZSF41 - 183



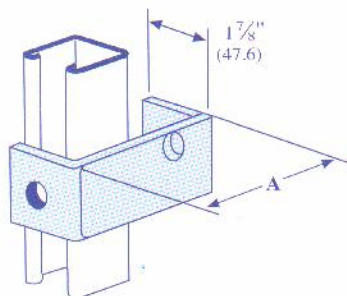
Wt/C 93 Lbs (42.2 kg)

USF41 - 184



Wt/C 63 Lbs 28.6 kg)

USF41 - 185



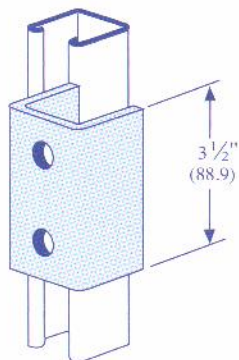
Part Number	"A" Dimension		Weight/C	
	In	mm	Lbs	kg
	4	101.6	78	35.4
	5	127.0	89	40.4
	6	152.4	101	45.8
	7	177.8	112	50.8
	8	203.2	124	56.2

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

" U " SHAPE FITTING FOR 1⁵/₈" (41-MM) WIDTH SERIES CHANNELS

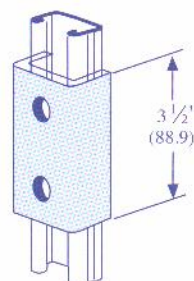


NDAF41 - 186



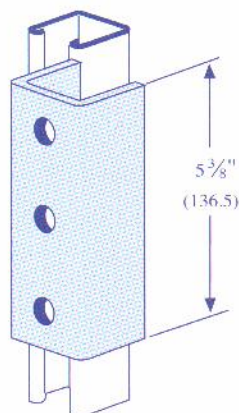
Wt/C 128 Lbs (58.1 kg)

NDAF41 - 187



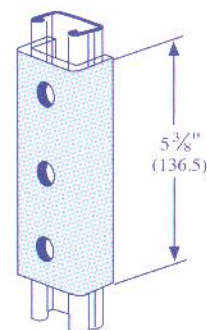
Wt/C 85 Lbs (38.6 kg)

NDAF41 - 188



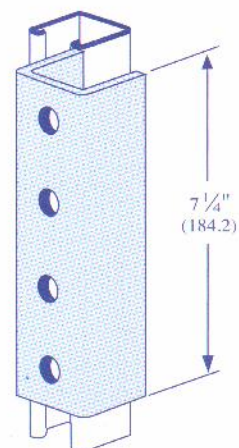
Wt/C 197 Lbs (89.4 kg)

NDAF41 - 189



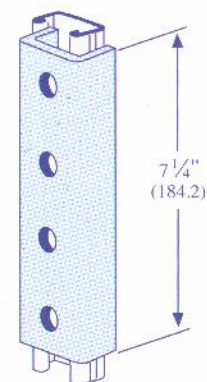
Wt/C 130 Lbs (59.0 kg)

NDAF41 - 190



Wt/C 265 Lbs (120.2 kg)

NDAF41 - 191



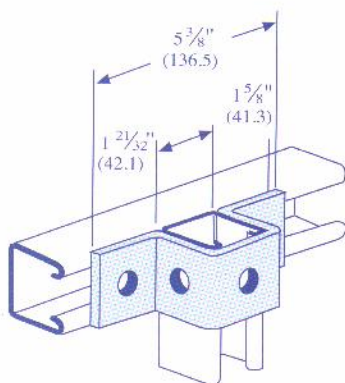
Wt/C 176 Lbs (79.8 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 17/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

" U " SHAPE FITTINGS FOR 15/8" (41-MM) WIDTH SERIES CHANNELS

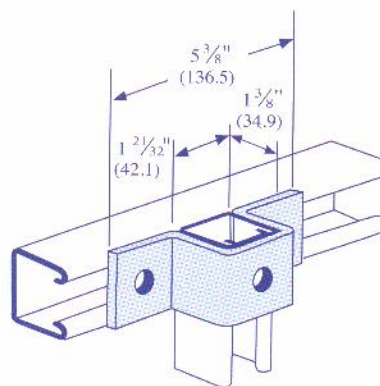


USF41 - 192



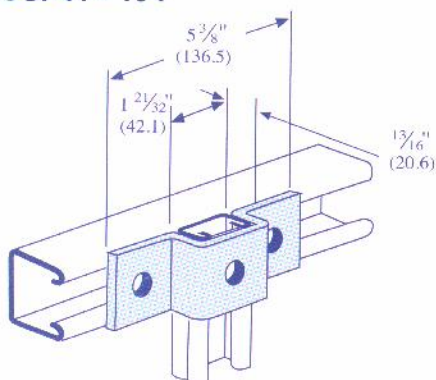
Wt/C 88 Lbs (39.9 kg)

USF41 - 193



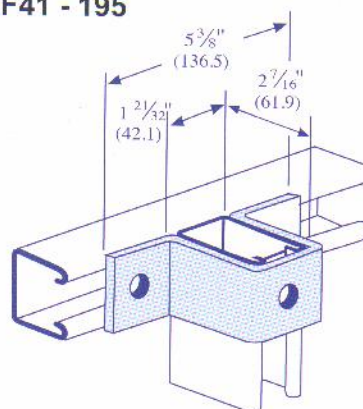
Wt/C 84 Lbs (38.1 kg)

USF41 - 194



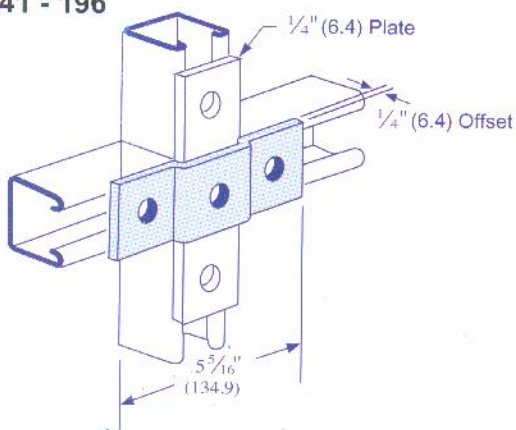
Wt/C 71 Lbs (32.2 kg)

USF41 - 195



Wt/C 108 Lbs 49.0 kg)

USF41 - 196



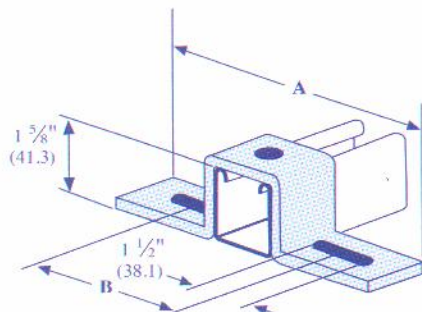
Wt/C 58 Lbs (26.3 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 17/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

" U " SHAPE FITTING FOR 15/8" (41-MM) WIDTH SERIES CHANNELS

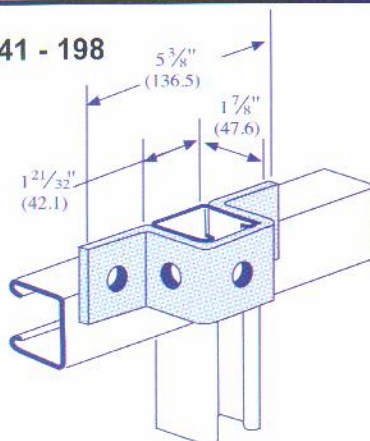


USF41 - 197



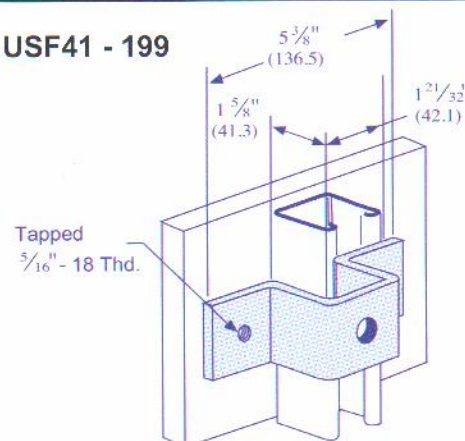
Part Number	"A"		"B"		Weight/C	
	In	mm	In	mm	Lbs	kg
	7 1/4	184.2	4 1/8	104.8	105	47.6
	8 1/2	215.9	5 3/8	136.5	120	54.4
	10 3/8	263.5	7 1/8	184.2	130	59.0

USF41 - 198



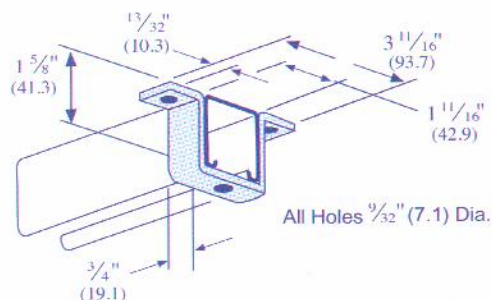
Wt/C 95Lbs (43.1 kg)

USF41 - 199



Wt/C 88 Lbs (39.9 kg)

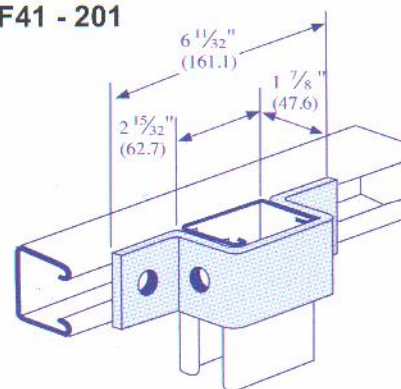
USF41 - 200



Material : 1/8" (3.2) thick.

Wt/C 18 Lbs (8.2 kg)

USF41 - 201



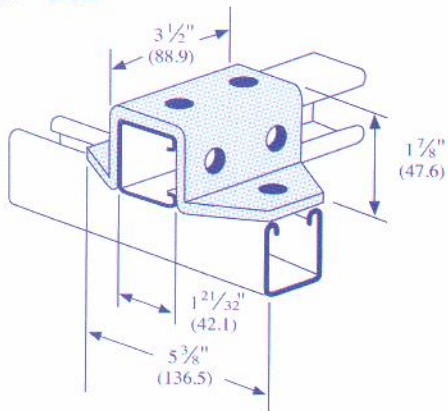
Wt/C 97 Lbs (44.0 kg)

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

" U " AND WING SHAPE FITTINGS FOR 15/8" (41-MM) WIDTH SERIES CHANNELS

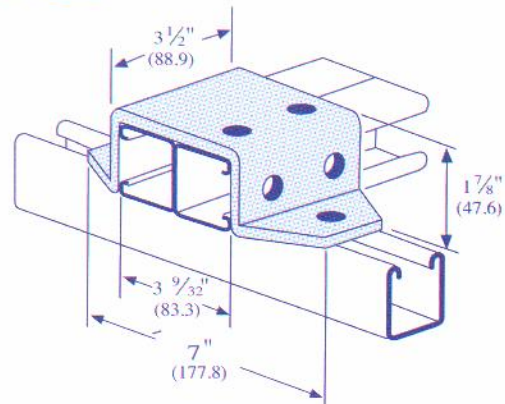


USF41 - 202



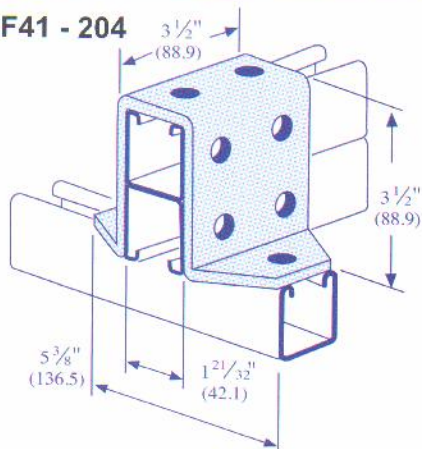
Wt/C 171 Lbs (77.6 kg)

USF41 - 203



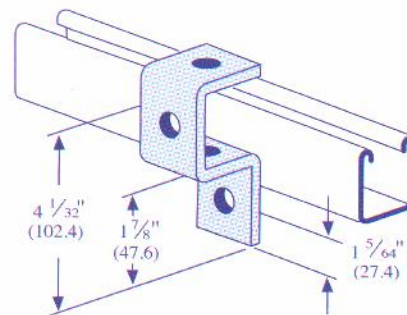
Wt/C 209 Lbs (94.8 kg)

USF41 - 204



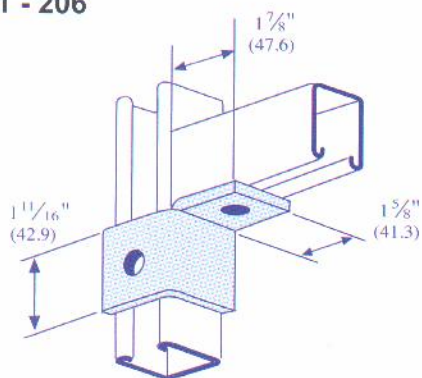
Wt/C 257 Lbs (116.6 kg)

USF41 - 205



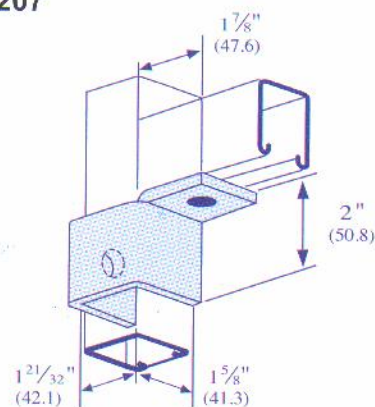
Wt/C 76 Lbs (34.5 kg)

USF41 - 206



Wt/C 60 Lbs (27.2 kg)

USF41 - 207



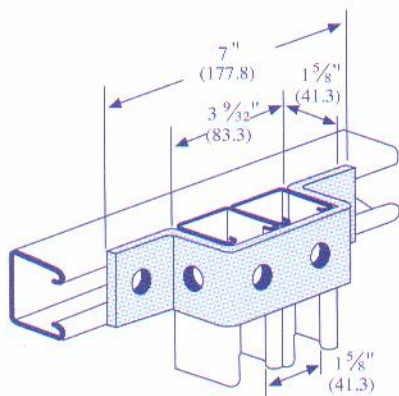
Wt/C 75 Lbs (34.0 kg)

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

" U " SHAPE FITTING FOR 1⁵/₈" (41-MM) WIDTH SERIES CHANNELS

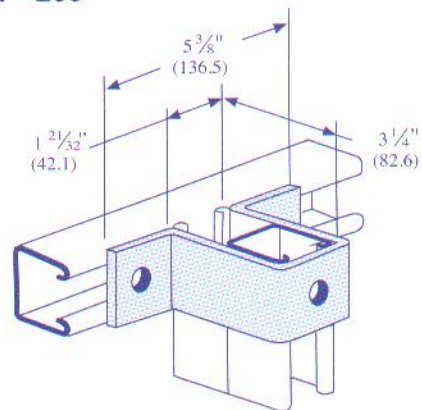


USF41 - 208



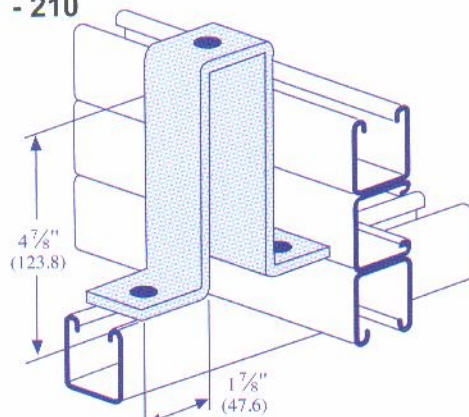
Wt/C 105 Lbs (47.6 kg)

USF41 - 209



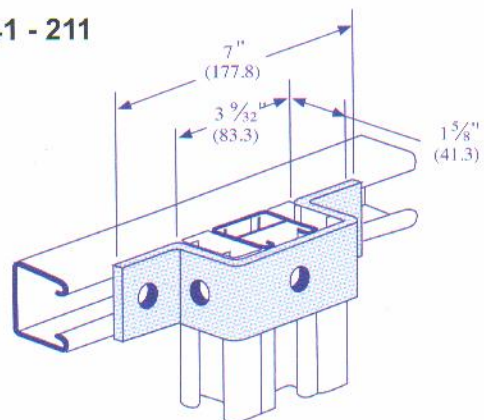
Wt/C 128 Lbs (56.1 kg)

USF41 - 210



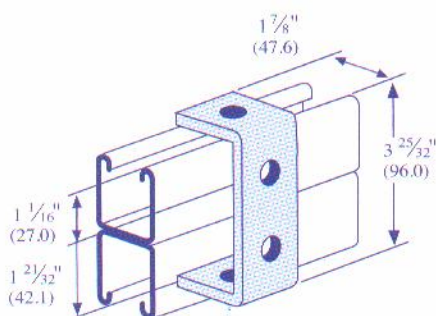
Wt/C 197 Lbs (89.4 kg)

USF41 - 211



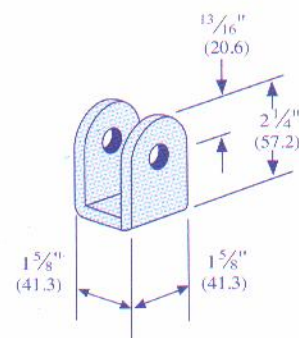
Wt/C 106 Lbs (48.1 kg)

USF41 - 212



Wt/C 70 Lbs (31.8 kg)

USF41 - 213



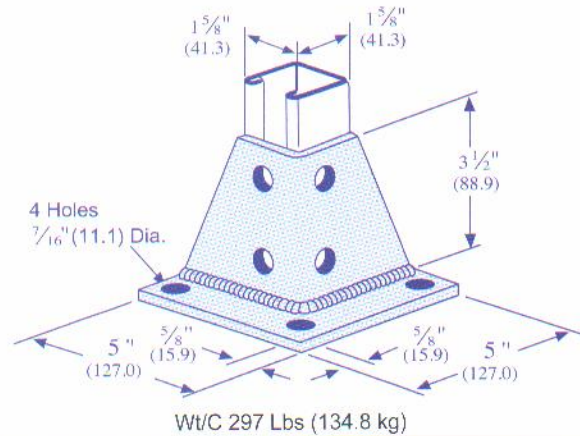
Wt/C 53 Lbs (24.0 kg)

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

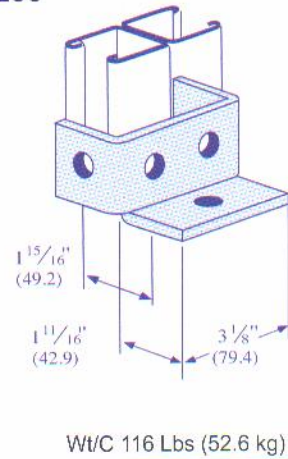
WING SHAPE FITTINGS FOR 1⁵/₈" (41-MM) WIDTH SERIES CHANNELS



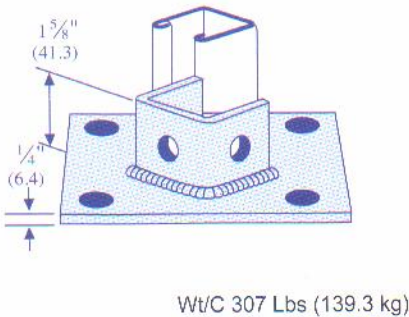
POF41 - 229



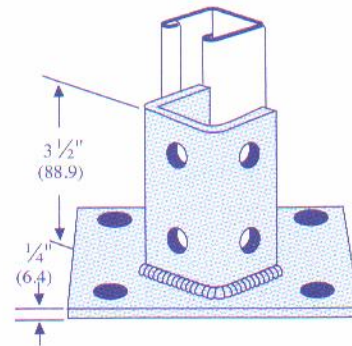
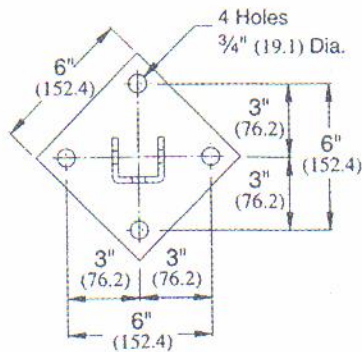
POF41 - 230



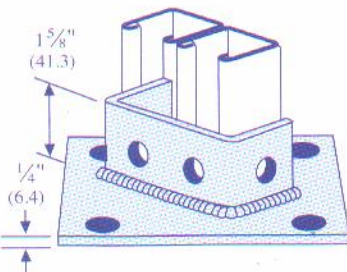
POF41 - 231



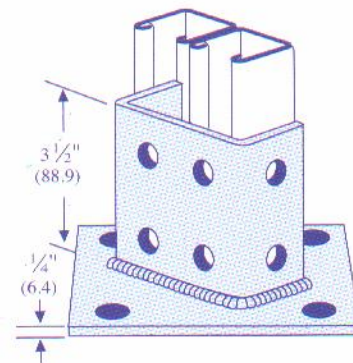
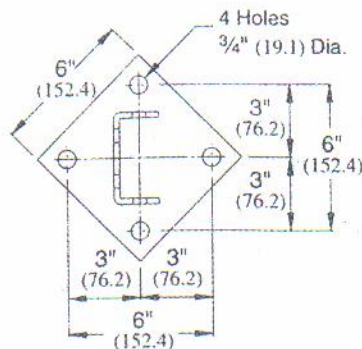
USF41 - 232



POF41 - 233



POF41 - 234

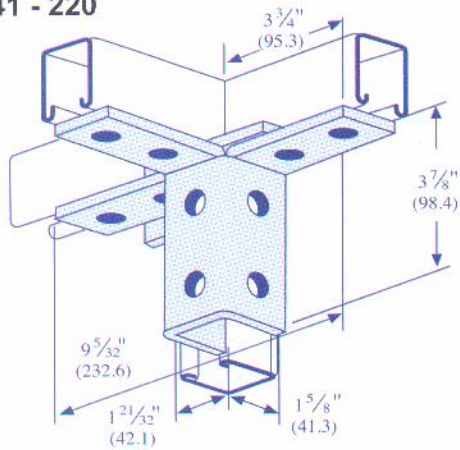


Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 17/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

WINGS SHAPE FITTINGS FOR 1⁵/₈" (41-MM) WIDTH SERIES CHANNELS

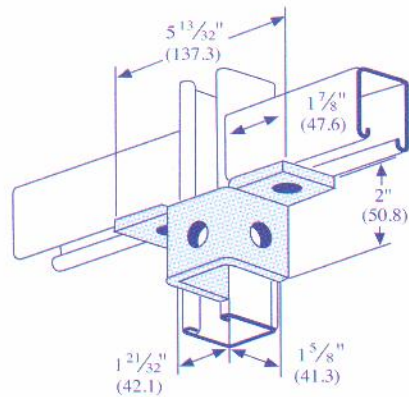


WSF41 - 220



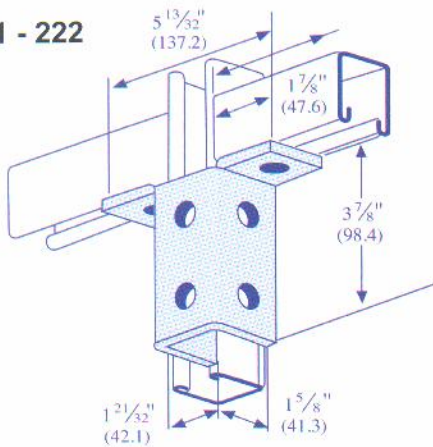
Wt/C 230 Lbs (104.3 kg)

WSF41 - 221



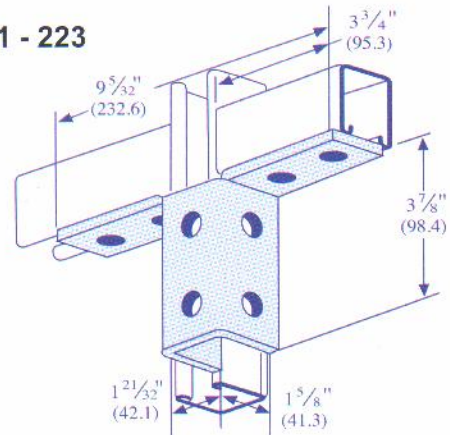
Wt/C 93 Lbs (42.2 kg)

WSF41 - 222



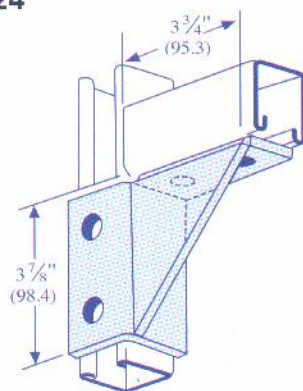
Wt/C 150 Lbs (68.0 kg)

WSF41 - 223



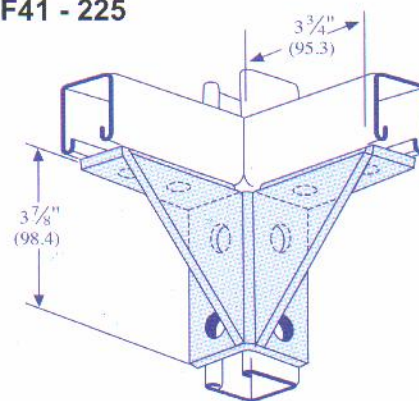
Wt/C 193 Lbs (87.5 kg)

WSF41 - 224



Wt/C 176 Lbs (79.8 kg)

WSF41 - 225



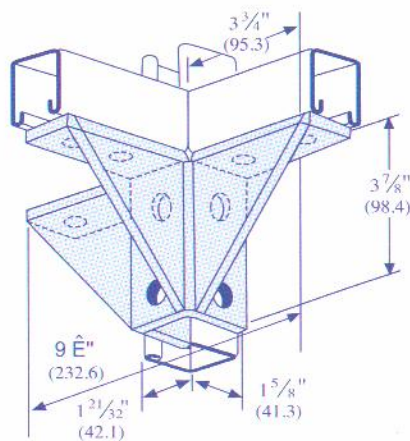
Wt/C 217 Lbs (98.4 kg)

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

WINGS SHAPE FITTINGS FOR 1⁵/₈" (41-MM) WIDTH SERIES CHANNELS

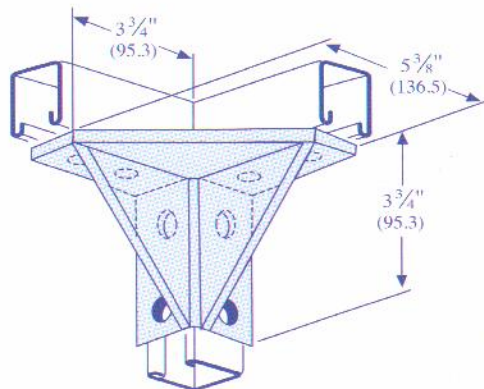


WSF41 - 226



Wt/C 130 Lbs (140.6 kg)

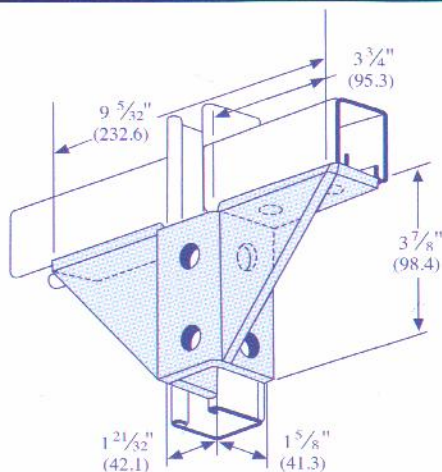
WSF41 - 227



Fitting notched for continuous vertical.

Wt/C 315 Lbs (142.9 kg)

WSF41 - 228



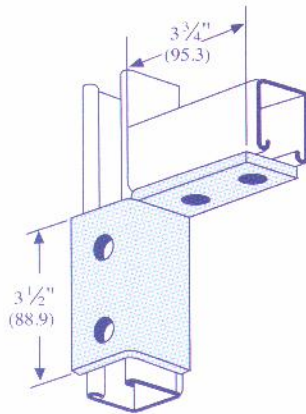
Wt/C 274 Lbs (124.3 kg)

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

POST BASES FOR 15/8" (41-MM) WIDTH SERIES CHANNELS

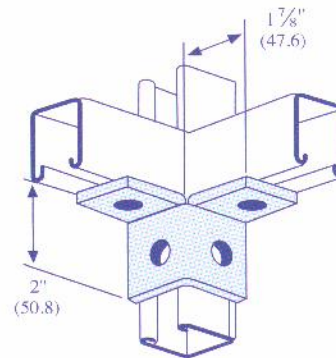


WSF41 - 214



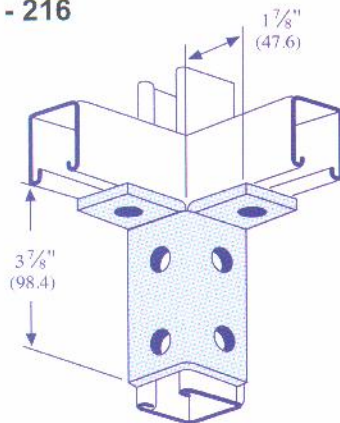
Wt/C 119 Lbs (54.0 kg)

WSF41 - 215



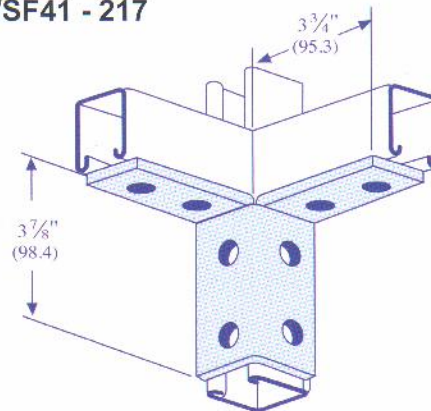
Wt/C 76 Lbs (34.5 kg)

WSF41 - 216



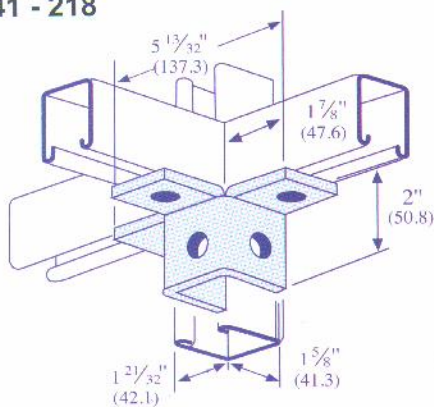
Wt/C 115 Lbs (52.2 kg)

WSF41 - 217



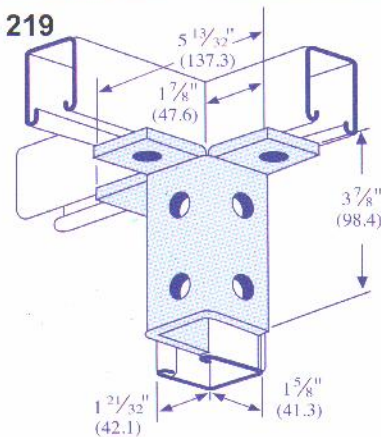
Wt/C 155 Lbs (70.3 kg)

WSF41 - 218



Wt/C 113 Lbs (51.3 kg)

WSF41 - 219



Wt/C 177 Lbs (80.3 kg)

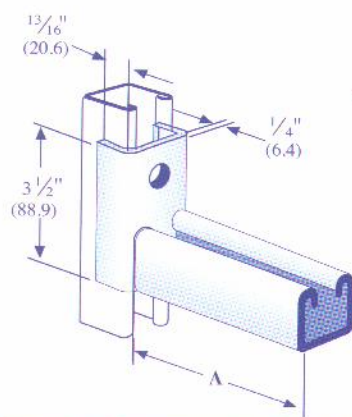
Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 1 7/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

BRACKETS

FOR 15/8" (41-MM) WIDTH SERIES CHANNELS



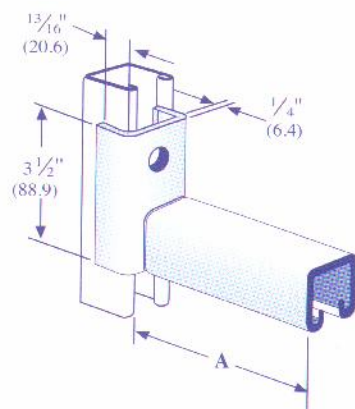
BF41 - 145



Safety Factor
2 1/2

Part Number	"A"		Weight/C		Vertical Channel		Uniform Design Load	
	In	mm	Lbs	kg	Part No.	Gage	Lbs	kN
6	6	152.4	191	86.6		12	1600	7.1
						14	1200	5.3
						16	800	3.6
12	12	304.8	292	132.4		12	800	3.6
						14	600	2.7
						16	400	1.8

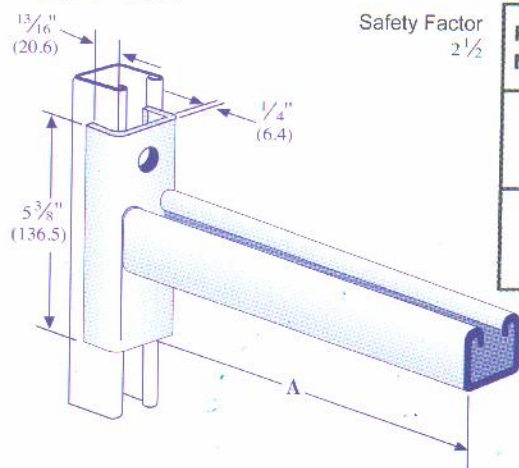
BF41 - 146



Safety Factor
2 1/2

Part Number	"A"		Weight/C		Vertical Channel		Uniform Design Load	
	In	mm	Lbs	kg	Part No.	Gage	Lbs	kN
6	6	152.4	191	86.6		12	1600	7.1
						14	1200	5.3
						16	800	3.6
12	12	304.8	292	132.4		12	800	3.6
						14	600	2.7
						16	400	1.8

BF41 - 147



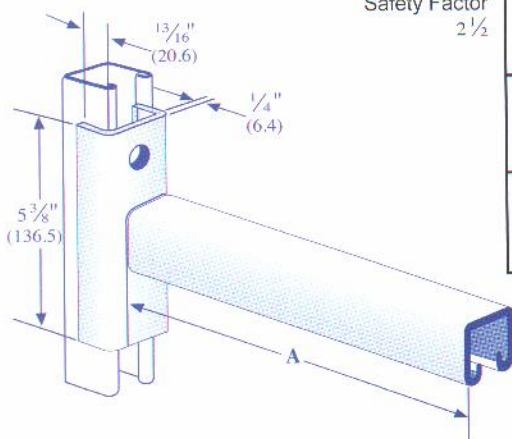
Safety Factor
2 1/2

Part Number	"A"		Weight/C		Vertical Channel		Uniform Design Load	
	In	mm	Lbs	kg	Part No.	Gage	Lbs	kN
18	18	457.2	436	197.8		12	600	2.7
						14	450	2.0
						16	300	1.3
24	24	609.6	536	243.1		12	450	2.0
						14	330	1.5
						16	220	1.0

BRACKETS FOR 15/8" (41-MM) WIDTH SERIES CHANNELS



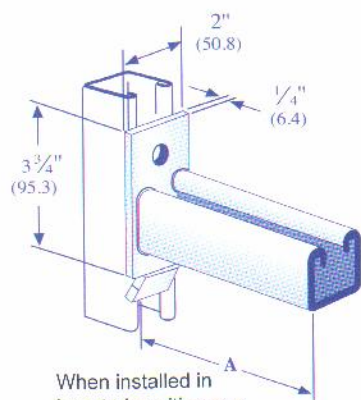
BF41 - 148



Safety Factor
2 1/2

Part Number	"A"		Weight/C		Vertical Channel		Uniform Design Load	
	In	mm	Lbs	kg	Part No.	Gage	Lbs	kN
18	457.2	436	197.8			12	600	2.7
						14	450	2.0
						16	300	1.3
24	609.6	536	243.1			12	450	2.0
						14	330	1.5
						16	220	1.0

BF41 - 149

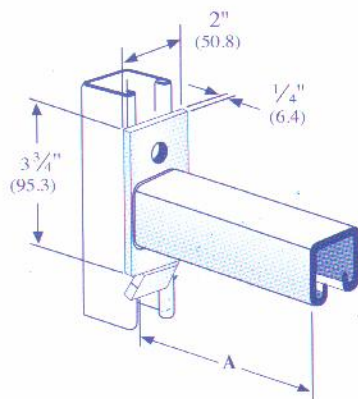


Safety Factor
2 1/2

Part Number	"A"		Weight/C		Vertical Channel		Uniform Design Load	
	In	mm	Lbs	kg	Part No.	Gage	Lbs	kN
6	152.4	161	73.0			12	1200	5.3
						14	800	3.6
						16	600	2.7
12	304.8	261	118.4			12	600	2.7
						14	400	1.8
						16	300	1.3
18	457.2	361	163.7			12	400	1.8
						14	270	1.2
						16	200	0.9
24	609.6	461	209.1			12	300	1.3
						14	200	0.9
						16	150	0.7

When installed in
inverted position use
60% of loads shown.

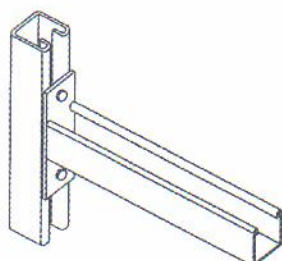
BF41 - 150



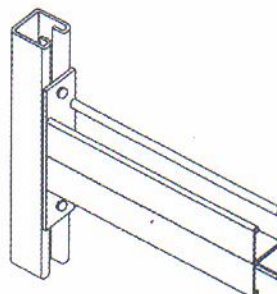
Safety Factor
2 1/2

Part Number	"A"		Weight/C		Vertical Channel		Uniform Design Load	
	In	mm	Lbs	kg	Part No.	Gage	Lbs	kN
6	152.4	161	73.0			12	1200	5.3
						14	800	3.6
						16	600	2.7
12	304.8	261	118.4			12	600	2.7
						14	400	1.8
						16	300	1.3
18	457.2	361	163.7			12	400	1.8
						14	270	1.2
						16	200	0.9
24	609.6	461	209.1			12	300	1.3
						14	200	0.9
						16	150	0.7

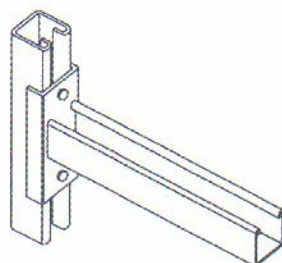
CANTILEVER ARMS



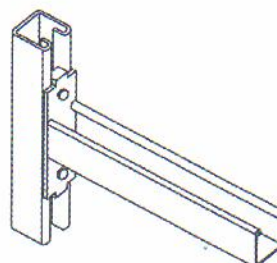
FS10 - 41



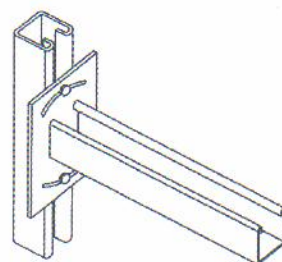
FS11 - 41



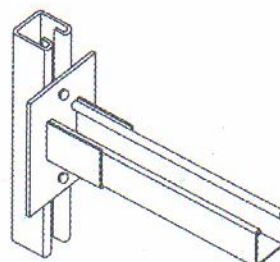
FS12 - 41



FS13 - 41



FS14 - 41



FS15 - 41

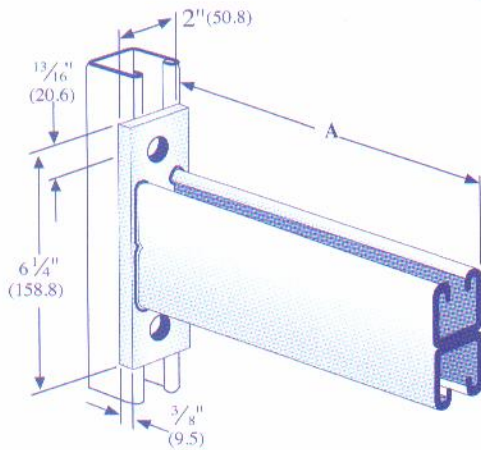
CANTILEVER ARMS ARE MANUFACTURED USUALLY HOT-DIP

BRACKETS AND BRACE FITTINGS FOR 1 5/8" (41-MM) WIDTH SERIES CHANNELS

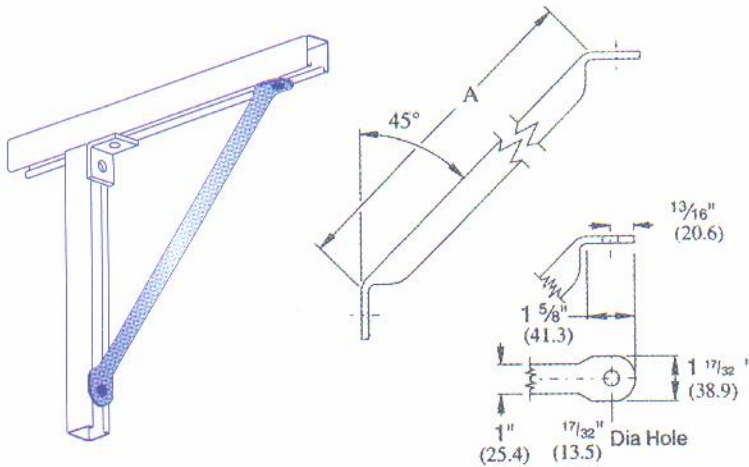


BF41 - D

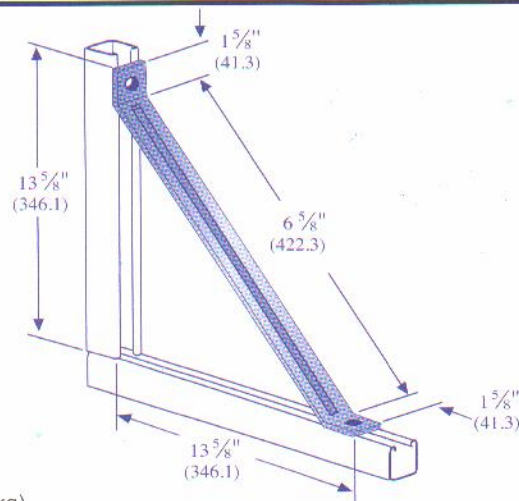
Safety Factor
2 1/2



Part Number	"A" Dimension		Weight/C		Vertical Channel		Uniform Design Load	
	In	mm	Lbs	kg	Part No.	Gage	Lbs	kN
	12	304.8	502	227.7		12	2000	8.9
						14	1400	6.2
						16	1000	4.4
	18	457.2	692	313.9		12	1300	5.8
						14	900	4.0
						16	650	2.9
	24	609.6	882	400.1		12	1000	4.4
						14	700	3.1
						16	500	2.2
	30	762.0	1072	486.3		12	800	3.6
						14	560	2.5
						16	400	1.8
	36	914.4	1262	572.4		12	650	2.9
						14	450	2.0
						16	320	1.4



Part Number	"A" Dimension		Weight/C	
	In	mm	Lbs	kg
18	457.2	116	52.6	
24	609.6	149	67.6	
30	762.0	181	82.1	
36	914.4	214	97.1	



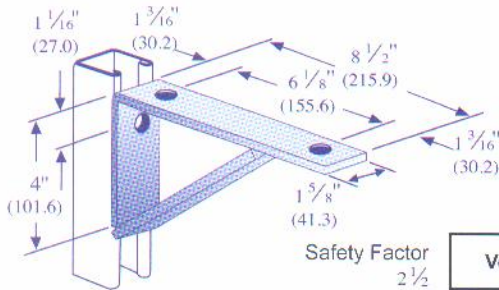
Wt/C 277 Lbs (125.6 kg)

BRACKETS FITTING FOR 15/8" (41-MM) WIDTH SERIES CHANNELS



BF41 - 154

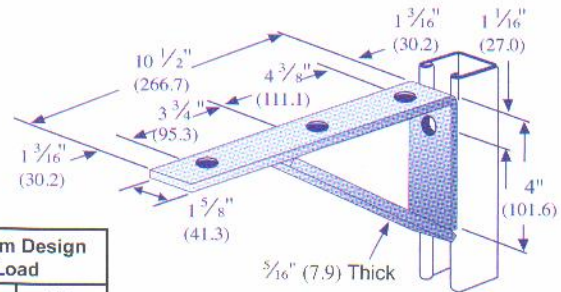
BF41 - 155



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

Wt/C 174 Lbs (78.9 kg)

Vertical Channel		Uniform Design Load	
Part No.	Gage	Lbs	kN
	12	800	3.6
	14	600	2.7
	16	400	1.8

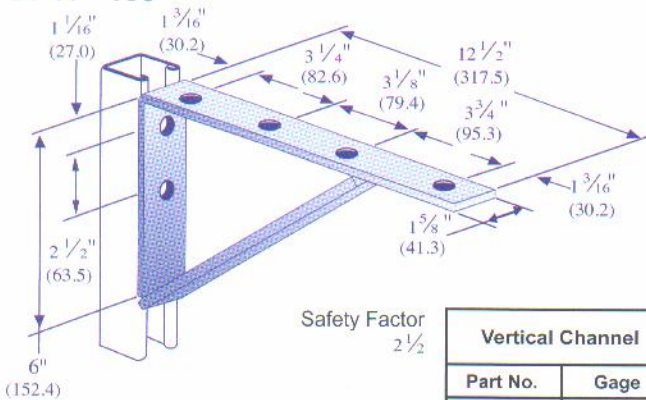


Material: 1/4" (6.4) thick steel.

Wt/C 206 Lbs (93.4 kg)

BF41 - 156

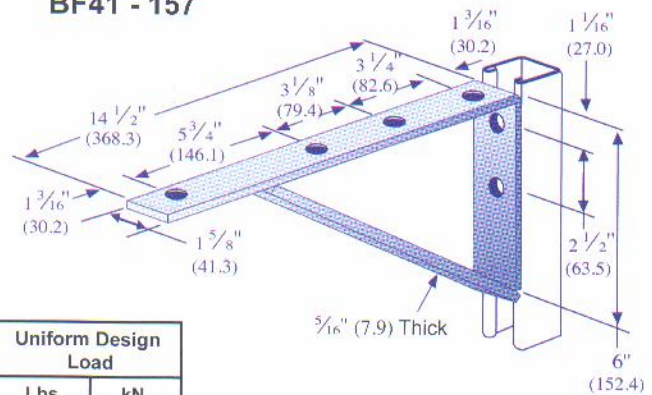
BF41 - 157



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

Wt/C 264 Lbs (119.7 kg)

Vertical Channel		Uniform Design Load	
Part No.	Gage	Lbs	kN
	12	900	4.0
	14	800	3.6
	16	450	2.0

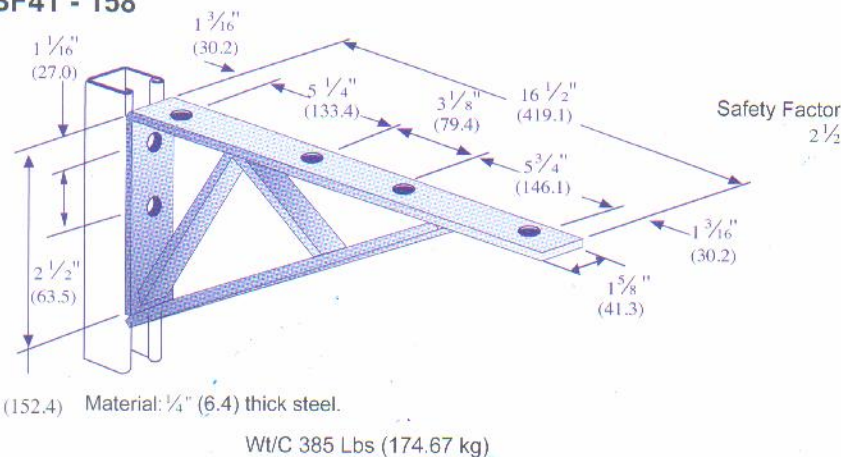


Material: 1/4" (6.4) thick steel.

Wt/C 295 Lbs (133.8 kg)

BF41 - 158

LOAD CHART



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

Wt/C 385 Lbs (174.67 kg)

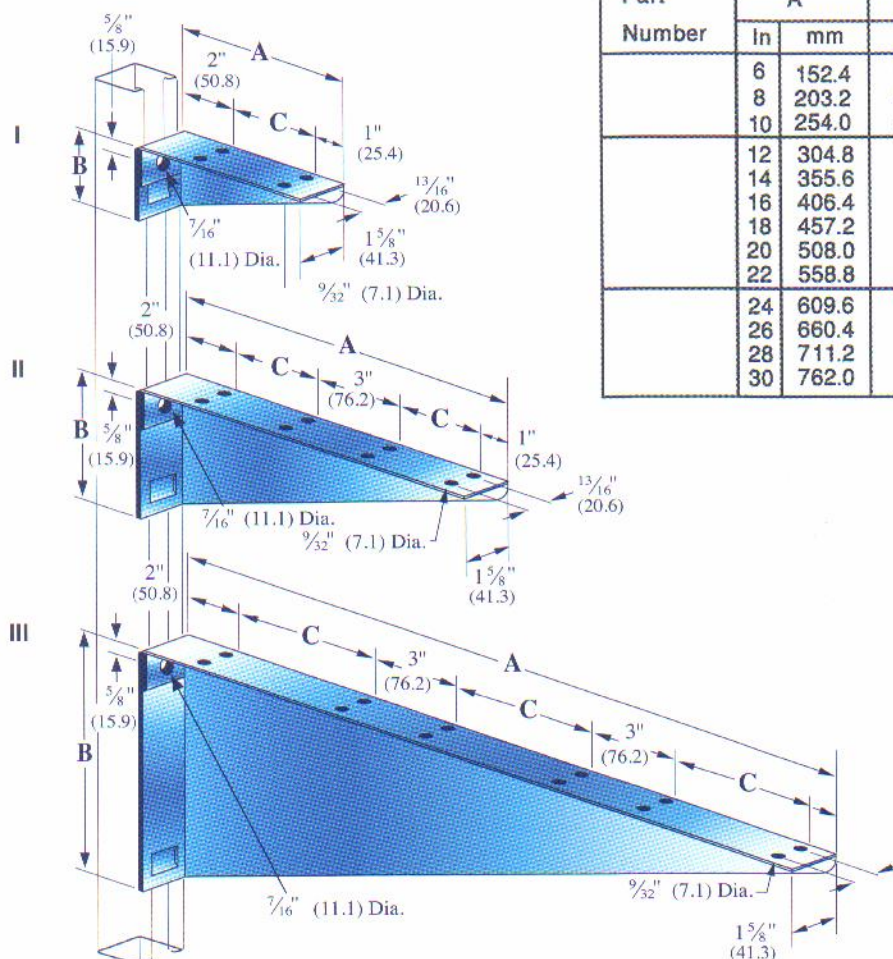
Vertical Channel		Uniform Design Load	
Part No.	Gage	Lbs	kN
	12	1200	5.3
	14	900	4.0
	16	600	2.7

BRACKETS

FOR 1⁵/₈" (41-MM) WIDTH SERIES CHANNELS



BF41 - 151

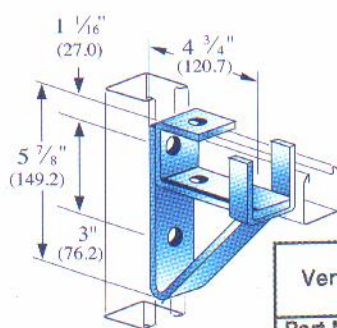


Part	A		B		C		Weight/C	
Number	In	mm	In	mm	In	mm	Lbs	kg
6	152.4	1 ¹⁵ / ₁₆	49.2	3	76.2	67	30.4	
8	203.2	2 ⁷ / ₁₆	61.9	5	127.0	92	41.7	
10	254.0	2 ¹⁵ / ₁₆	74.6	7	177.8	120	54.4	
12	304.8	3 ⁷ / ₁₆	87.3	3	76.2	152	68.9	
14	355.6	3 ¹⁵ / ₁₆	100.0	4	101.6	173	78.5	
16	406.4	4 ⁷ / ₁₆	112.7	5	127.0	223	101.2	
18	457.2	4 ¹⁵ / ₁₆	125.4	6	152.4	266	120.7	
20	508.0	5 ⁷ / ₁₆	138.1	7	177.8	308	139.7	
22	558.8	5 ¹⁵ / ₁₆	150.8	8	203.2	355	161.0	
24	609.6	6 ⁷ / ₁₆	163.5	5	127.0	400	181.4	
26	660.4	6 ¹⁵ / ₁₆	176.2	5 ¹¹ / ₁₆	144.5	445	201.8	
28	711.2	7 ⁷ / ₁₆	188.9	6 ¹⁵ / ₁₆	160.3	493	223.6	
30	762.0	7 ¹⁵ / ₁₆	201.6	7	177.8	545	247.2	

Vertical Channel		Uniform Design Load	
Part No.	Gage	Lbs	kN
12	12	300	1.3
14	14	250	1.1
16	16	200	0.9

Safety Factor - 2½

BF41 - 152



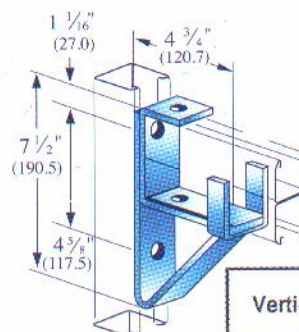
Material: ¼" (6.4) thick steel.

W/C 229 Lbs (103.9 kg)

Vertical Channel		Allowable Moment*	
Part No.	Gage	In-Lbs	N*m
12	12	5100	576
14	14	4400	500
16	16	3200	360

Safety Factor - 2½

BF41 - 153



Material: ¼" (6.4) thick steel.

W/C 229 Lbs (103.9 kg)

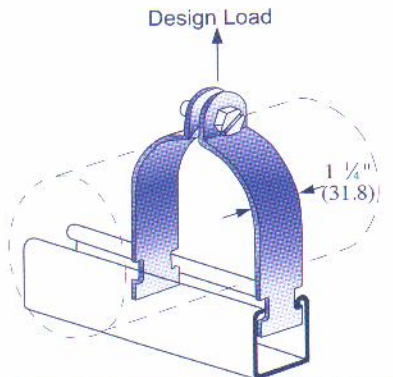
Vertical Channel		Allowable Moment*	
Part No.	Gage	In-Lbs	N*m
12	12	13000	1470
14	14	9100	1030
16	16	6500	730

Safety Factor - 2½

PIPE/CONDUIT CLAMPS FOR 1 5/8" (41-MM) WIDTH SERIES CHANNELS



PIPE CLAMPS FOR RIGID STEEL CONDUIT

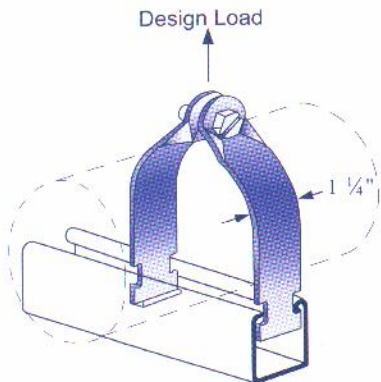


Slotted hex head screw and nut included.

Finish: Electro-galvanized.
Finish: Hot Dip Galvanized

Part Number	Pipe Size	O.D. Size		Thickness		Weight/C		Design Load	
	In	In	mm	Gage	mm	Lbs	kg	Lbs	kN
	3/8	.675	17.1	16	1.5	10	4.5	400	1.8
	1/2	.840	21.3	16	1.5	11	5.0	400	1.8
	3/4	1.050	26.7	14	1.9	15	6.8	600	2.7
	1	1.315	33.4	14	1.9	17	7.7	600	2.7
P1115	1 1/4	1.660	42.2	14	1.9	19	8.6	600	2.7
	1 1/2	1.900	48.3	12	2.7	29	13.2	800	3.6
	2	2.375	60.3	12	2.7	34	15.4	800	3.6
	2 1/2	2.875	73.0	12	2.7	40	18.1	800	3.6
	3	3.500	88.9	12	2.7	47	21.3	800	3.6
	3 1/2	4.000	101.6	11	3.0	62	28.1	1000	4.4
	4	4.500	114.3	11	3.0	67	30.4	1000	4.4
	5	5.563	141.3	11	3.0	80	36.3	1000	4.4
	6	6.625	168.3	10	3.4	102	46.3	1000	4.4
	8	8.625	219.1	10	3.4	130	59.0	1000	4.4

UNIVERSAL CLAMPS FOR RIGID OR THINWALL CONDUIT

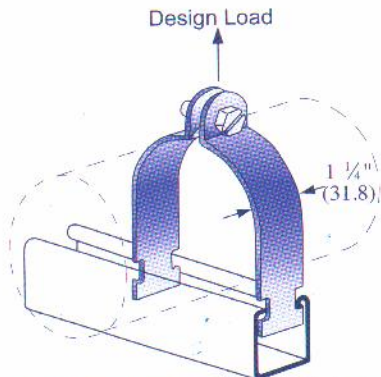


Slotted hex head screw and nut included.

Finish: Electro-galvanized.
Finish: Hot Dip Galvanized

Part Number	Pipe/Conduit Size	Thickness		Weight/C		Design Load	
	In	Gage	mm	Lbs	kg	Lbs	kN
	1/2	16	1.5	10	4.5	400	1.8
	3/4	16	1.5	11	4.0	400	1.8
	1	16	1.5	12	5.4	400	1.8
	1 1/4	14	1.9	18	8.2	600	2.7
	1 1/2	14	1.9	20	9.1	600	2.7
	2	14	1.9	22	10.0	600	2.7

PIPE CLAMPS FOR THIN WALL CONDUIT (E.M.T)



Slotted hex head screw and nut included.

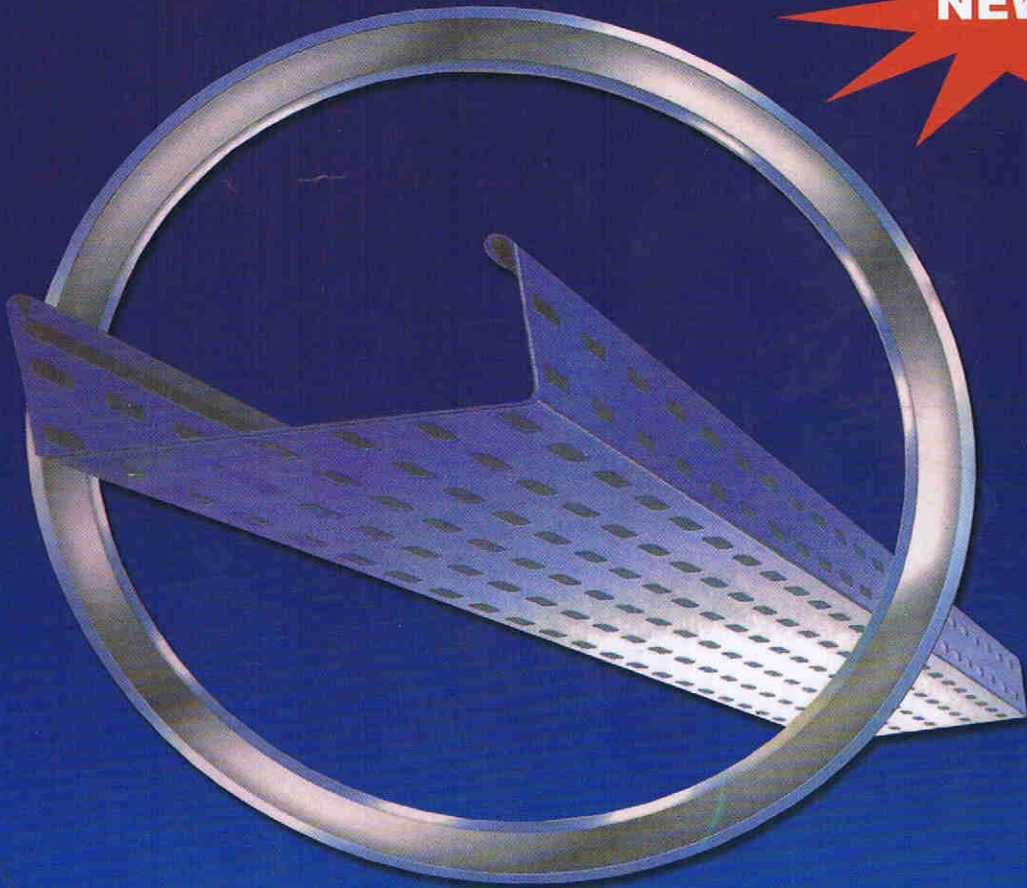
Finish: Electro-galvanized.
Finish: Hot Dip Galvanized

Part Number	Pipe Size	O.D. Size		Thickness		Weight/C		Design Load	
	In	In	mm	Gage	mm	Lbs	kg	Lbs	kN
	3/8	.577	14.7	16	1.5	9	4.1	400	1.8
	1/2	.706	17.9	16	1.5	11	5.0	400	1.8
	3/4	.922	23.4	16	1.5	12	5.4	400	1.8
	1	1.163	29.5	14	1.9	15	6.8	600	2.7
	1 1/4	1.510	38.4	14	1.9	18	8.2	600	2.7
	1 1/2	1.740	44.2	12	2.7	29	13.2	800	3.6
	2	2.197	55.8	12	2.7	33	15.0	800	3.6
	2 1/2	2.875	73.0	12	2.7	40	18.1	800	3.6
	3	3.500	88.9	12	2.7	47	21.3	800	3.6
	3 1/2	4.000	101.6	11	3.0	62	28.1	1000	4.4
	4	4.500	114.3	11	3.0	67	30.4	1000	4.4

مصنع نجوم الفريد

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