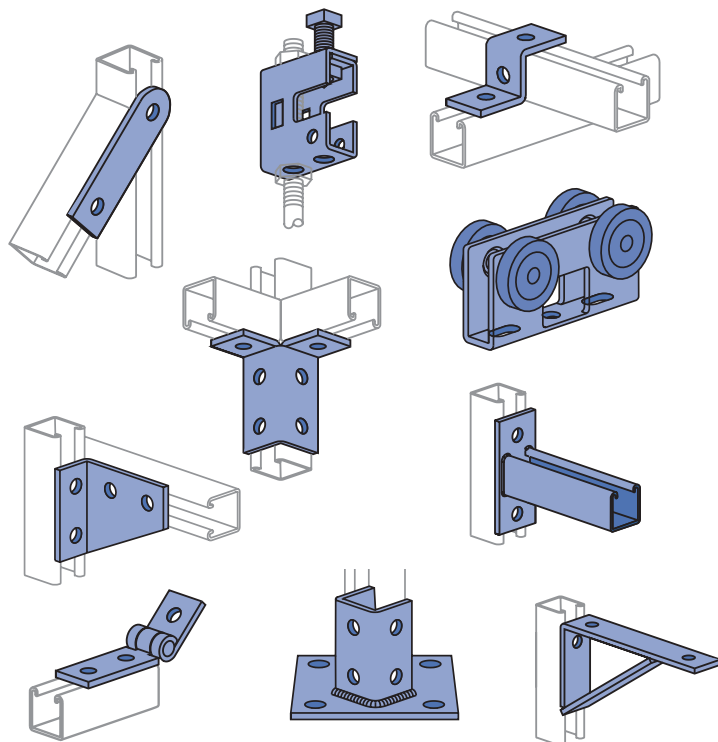


# GENERAL FITTINGS



Flat Plate Fittings .....	81 - 82
Ninety Degree Fittings.....	82 - 85
Angular Fittings .....	85
"Z" Shape Fittings .....	86
"U" Shape Fittings .....	87 - 88
Wing Shape Fittings .....	89 - 90
Post Bases .....	90
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Beam Clamps.....	95 - 101
Trolleys.....	102
Special Application Fittings.....	103 - 104
Seismic Retrofit Fittings.....	104 - 106

## MATERIAL

Fittings, unless noted, are made from hot-rolled, pickled and oiled steel plates, bar, strip or coil, and conform to one or more of the following specifications: ASTM specifications A575, A576, A635, A1011 SS GR 33, A1011 HSLAS GR 45 or A36. All fittings meet or exceed physical properties of ASTM A1011 GR 33. The pickling of the steel produces a smooth surface free from scale.

Many fittings are also available in stainless steel, aluminum and fiberglass. Consult factory for ordering information.

## FINISHES

Fittings are available in:

Green Powder Coat (GR), conforming to commercial standards for Powder Coating

Electro-galvanized (EG), conforming to ASTM B633 Type III SC1;

Hot-dipped galvanized (HG), conforming to ASTM A123 or A153 and

Plain (PL)

Unistrut Defender (DF), conforming to ASTM A1059 or A1046

## APPLICATION

All parts drawings illustrate only one application of each fitting. In most cases many other applications are possible. The channels shown in the illustrations are P1000, 1 $\frac{1}{8}$ " square, except where noted otherwise.

All  $\frac{9}{16}$ " diameter holes use  $\frac{1}{2}$ " x  $\frac{15}{16}$ " hex head cap screws and  $\frac{1}{2}$ " nuts – P1010, P3010, P4010 or P5510 – depending on the channel used. Nuts and bolts are not included with the fitting and must be ordered separately.

## DESIGN BOLT TORQUE

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

## SET SCREW TORQUE

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

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

## DIMENSIONS

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

## DESIGN LOAD

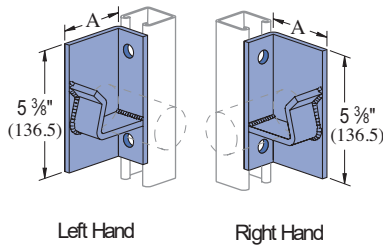
Design load data, where shown, is based on the ultimate strength of the connection with a safety factor of 2.5, unless otherwise noted.

## BEAM CLAMPS

Clamps are designed to be used with W, M, S and HP Shape beams, Standard C and Miscellaneous MC Channels, Angles and Structural Tees. Clamps must be used in pairs mounted in opposite directions where indicated. For beam clamps with HG finish, standard hardware is EG finish. For optional stainless steel hardware, please contact the factory for availability.

## P2354 R-L, P2355 R-L

## REEL RACK SUPPORTS FOR 1 1/4" & 2" PIPE

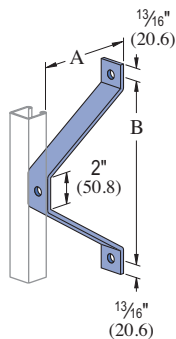


Vertical Channel		Max. Allowable Load
Part No.	Gauge	Lbs (kN)
P1000	12	3,000 (13.34)
P1100	14	2,000 (8.90)
P2000	16	2,000 (8.90)

Part Number	"A" In (mm)	Std. Pipe Size In (mm)	Wt/100 pcs Lbs (kg)
P2354 R-L	3	1 1/4	220
P2355 R-L	3 3/8	2	252

## P1204 THRU P1208

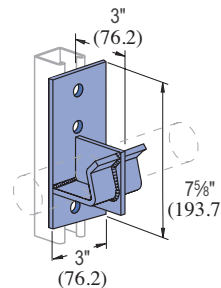
## WALL LADDER BRACKET



Part Number	"A" In (mm)	"B" In (mm)	Wt/100 pcs Lbs (kg)
P1204	2 3/8	6	113
P1205	4 3/8	8	164
P1206	6 3/8	10	216
P1207	8 3/8	12	267
P1208	10 3/8	14	318

## P2454

## DOUBLE PIPE AXLE SUPPORT



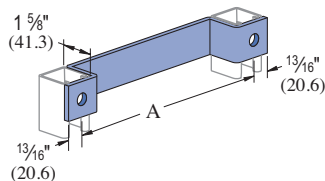
Load Rating 4,000 Lbs (17.79 kN)

For 1 1/4" (31.8) Standard Pipe

Wt/100 pcs: 310 Lbs (140.6 kg)

## P1201, P1202, P1203

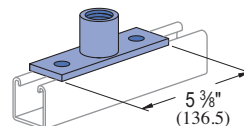
## LADDER RUNG



Part Number	"A" In (mm)	Wt/100 pcs Lbs (kg)
P1201	12	186
P1202	15	221
P1203	18	254

## P2470-50, -75, -100

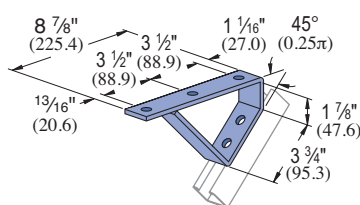
## PIPE COUPLING FITTING



Part Number	Size In	Wt/100 pcs Lbs (kg)
P2470-50	1/2	77 (34.9)
P2470-75	3/4	93 (42.2)
P2470-100	1	103 (46.7)

## P1944

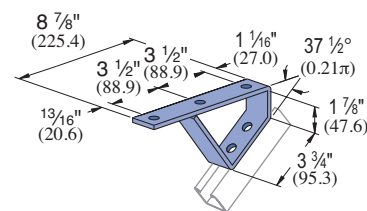
## 45° (.25π) STAIR TREAD SUPPORT



Wt/100 pcs: 220 Lbs (99.8 kg)

## P2655

## 37 1/2° (.21π) STAIR TREAD SUPPORT



Wt/100 pcs: 213 Lbs (96.6 kg)

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

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 3/8" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 1/8" (41.3mm); Thickness: 1/4" (6.4mm) with steel meeting or exceeding ASTM A1011 SS GR 33, or 0.220" (5.6mm) with steel meeting or exceeding ASTM A1011 HSLAS GR 45