





P2458 - 18" to 36" Tubular Knee Braces (1-5/8" Series)

Atkore's knee brace fittings provide angled reinforcement for metal framing systems, enhancing stability and load distribution in structural applications. Engineered for straightforward assembly, they ensure precise alignment and are compatible with a wide range of strut profiles.

## **Features**

- · Compression Load: 1,500 lbs (6.67 kN)
- · Tension Load: 300 lbs (1.33 kN)
- · Holes for 1/2" fasteners

Standard Dimensions (Unless Shown Otherwise on Drawing):

- · Hole Diameter: 9/16" (14mm)
- · Hole Spacing (From End): 13/16" (21mm) · Hole Spacing (On-Center): 17/8" (48mm)
- · Width: 1 5/8" (41mm)
- · 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

## Note:

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

Materials & Finishes - Standard:

- Base Metal: Steel conforms to ASTM A1011 SS GR 33, A1011 HSLAS GR 45, A36, A575, A576, or A635.
- Electrogalvanized (EG): Conforms to ASTM B633, Type III SC1
   Unistrut Defender (DF): Conforms to ASTM A1059
- · Hot Dip Galvanized (HG): Conforms to ASTM A123 or A153
- · Perma-Green (GR): Conforms to commercial standards for powder coating
- Perma-Gold (ZD): Conforms to ASTM B633, Type II SC1 or SC3
- · Plain (PL): No finish

## Materials & Finishes - Special Metals:

- · Stainless Steel, Type 304 (SS): Conforms to ASTM A240 or A276, Type 304 \*
- Stainless Steel, Type 316 (ST): Conforms to ASTM A240 or A276, Type 316 \*
- · Aluminum (AL): Conforms to ASTM B209, Type 1100F or 5052-H32
- \* These materials have different physical properties and performance characteristics. Please contact us for design support.







Catalog Number	Material Type	Surface Finish	Part Weight (lb/ea)	Standard Package Weight (lb)
P2458-30 EG	Steel	Electrogalvanized	2.27	56.75
P2458-18 EG	Steel	Electrogalvanized	1.46	36.4
P2458-30 GR	Steel	Green E-Coat	2.27	56.75
P2458-18 GR	Steel	Green E-Coat	1.46	36.4
P2458-24 GR	Steel	Green E-Coat	1.86	46.575
P2458-36 GR	Steel	Green E-Coat	2.67	66.75
P2458-12 PG	Steel	Pre-Galvanized	1.05	26.25











Catalog Number	Material Type	Surface Finish	Part Weight (lb/ea)	Standard Package Weight (lb)
P2458-24 PL	Steel	Plain/Oil	1.86	46.575
P2458-18 PL	Steel	Plain/Oil	1.46	36.4
P2458-36 PL	Steel	Plain/Oil	2.67	66.75
P2458-30 PL	Steel	Plain/Oil	2.27	56.75

Design Loads:
1. Compression = 1,500 lbs (6.67 kN)
2. Tension = 300 lbs (1.33 kN)
3. Safety factor = 2.5 based on the ultimate strength of the connection