



P2815 - Adjustable Brace Fitting

Adjustable Braces and Hinges are part of the Metal Framing System and can also be used as part of an engineered seismic restraint system. Loads are limited by the slip strength and pull out strength of the clamping nut.

Features

- Steel: ASTM A1011 SS GR 33
- Holes for 1/2" fasteners
- Variety of material and finish options

Standard Dimensions (Unless Shown Otherwise on Drawing):

- **Hole Diameter:** $\frac{9}{16}$ " (14mm)
- **Hole Spacing (From End):** $\frac{13}{16}$ " (21mm)
- **Hole Spacing (On-Center):** $1\frac{7}{8}$ " (48mm)
- **Width:** $1\frac{5}{8}$ " (41mm)
- **Thickness:**
 - $\frac{1}{4}$ " (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)
P2815 DF	Steel	Defender	3.25	32.5
P2815 EG	Steel	Electrogalvanized	3.07	30.7
P2815 GR	Steel	Green E-Coat	3.07	30.7
P2815 HG	Steel	Hot-Dip Galvanized	3.25	32.5
P2815 PL	Steel	Plain/Oil	3.07	30.7
P2815 ZD	Steel	Zinc Dichromate	3.07	30.7

Design Loads - P2815			
Load	Angle	Average Ultimate Load (lbs)	Design Load (lbs)
Tension	30°	10,600	3,000
	45°	9,840	
	60°	10,400	
Compression	90°	10,380	

Notes:

- 1. Design loads only apply to UNISTRUT brand products. Look for "UNISTRUT" on the part.
- 2. Average Safety Factor = 3.0 based on static testing to the ultimate strength of connection. Design Loads are limited to 3,000 lbs for the Slip Load of (2) Channel Nuts with a Safety Factor = 3.0.
- 3. 1/2" Unistrut Channel Nut and Cap Screw torqued to 50 ft-lbs required for installation.