

Unistrut® General Fittings Specifications

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.

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, 1-5/8" square, except where noted otherwise.
- All 9/16" diameter holes use 1/2" x 15/16" hex head cap screws and 1/2" nuts - P1010, P4010 or P5510 - depending on the channel used. Nuts and bolts are not included with the fitting and must be ordered separately.

Dimensions:

- Imperial dimensions are illustrated in inches. Unless noted, all metric dimensions are shown in millimeters.

Design Bolt Torque:

BOLT SIZE	1/4"-20	5/16"-18	3/8"-16	1/2"-13	5/8"-11	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)	150 (203)

Design Set Screw Torque:

BOLT SIZE	1/4"-20	3/8"-16	1/2"-13	5/8"-11	3/4"-10	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

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 where indicated.
- For beam clamps with HG finish, standard hardware is EG finish. For optional stainless steel hardware, please contact the factory for availability.