Fig. 828 - Universal Sway Brace Attachment

Size Range — One size accommodates all TOLCO Fig. 900 Series sway brace attachments. Fits from 3/8" to 7/8" thick steel structure. For sizes less then 3/8" thick refer to Fig. 825 or Fig. 825A.

Material — Carbon Steel

Function — To attach sway bracing to various types of steel structural members.

Features — Permits secure non-friction connection without drilling or welding. Unique design allows offset placement on Wide flange beam, I-beam, C-channel, open web, welded steel trusses, etc... Secures brace to structure either across or along the beam. Break-off bolts allow for visual verification of proper installation torque.

Approvals — Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). FM Approvals.

Installation Instructions — The Fig. 828 is the structural attachment component of a longitudinal or lateral sway brace assembly. It is intended to be combined with a TOLCO transitional attachment, "bracing pipe" and a TOLCO "braced pipe" attachment, to form a complete bracing assembly. NFPA 13 and/ or OSHPD guidelines should be followed.

To Install — Place the Fig. 828 on flange of the beam, truss or girder. Be sure the attachment is fully engaged to the rear of the opening. Tighten the cone point set bolts (A) until the heads break off. Tighten the cone point set bolt (B) until the head breaks off. Remove the flange nut from set bolt (B). Install a TOLCO swivel fitting (FG 909, 910, 980, 986). Use flange nut to secure the swivel fitting.

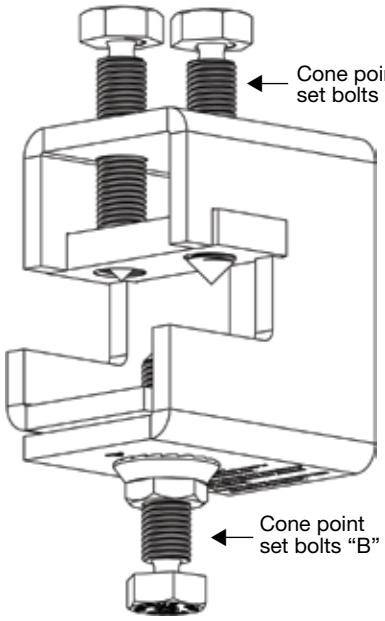
Finish — Plain and Electro-Galvanized

Order By — Figure number and finish

US Patent # 6,098,942

Canada Patent #2,286,659

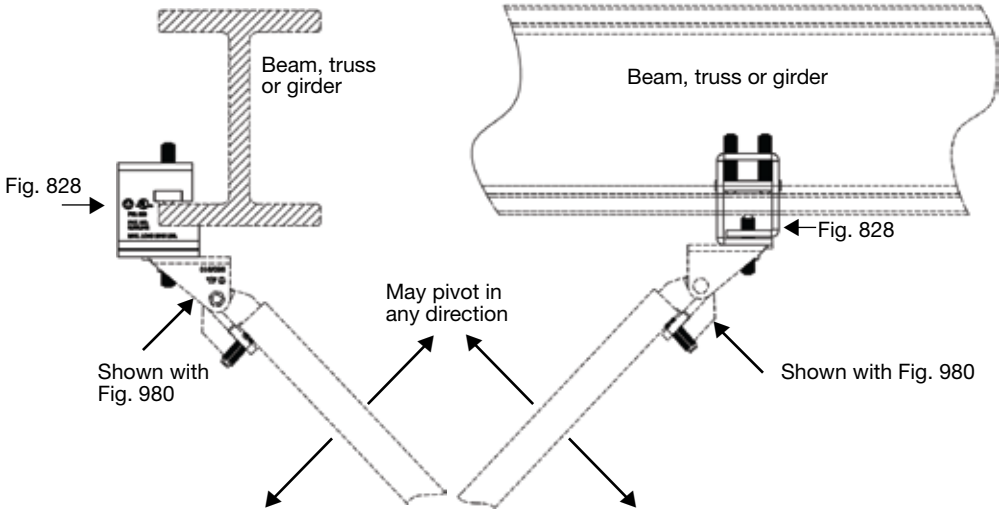
Patent Pending



UL Horizontal Design Load
Maximum Design Load across beam 2015 Lbs.
Maximum Design Load along beam 2015 Lbs.
Weight/100 284 Lbs.

FM Approved Allowable Horizontal Load*			
W/Brace Perpendicular to Beam			
Brace Angle (degrees from vertical)			
30-44	45-59	60-74	75-90
1570	2220	1210	700

FM Approved Allowable Horizontal Load*			
W/Brace Parallel to Beam			
Brace Angle (degrees from vertical)			
30-44	45-59	60-74	75-90
690	970	1210	1330



Actual design loads at brace angle shown. No need to reduce further based on brace angle per NFPA 13 (2010) Sec 9.3.5.10.3. In all cases, the allowable capacities shown within this section have been determined by resolving the load rating (i.e. the load resulting in failure or exceedence of the deformation limits) to the horizontal direction and dividing by a safety factor of 1.5 to allow the values to be used directly for Allowable Stress Design (ASD). For Load Resistance Factor Design (LRFD) capacities, the values in the table shall be multiplied by 1.5

Cooper B-Line, Inc.'s ("Cooper B-Line") seismic bracing components are designed to be compatible only with other Cooper B-Line bracing components, resulting in a listed seismic bracing assembly. Cooper B-Line's warranty for seismic bracing components will be the warranty provided in Cooper B-Line's standard terms and conditions of sale made available by Cooper B-Line, except that, in addition to the other exclusions from Cooper B-Line's warranty, Cooper B-Line makes no warranty relating to Cooper B-Line's seismic bracing components that are combined with products not provided by Cooper B-Line.

COOPER B-LINE 1375 Sampson Ave • Corona, CA 92879 • 800.786.5266 • FAX: 951.737.0330