

TOLCO™ Fig. 828 - Universal Sway Brace Attachment to Steel (FM Approved)

Size Range: One size accommodates all Fig. 900 Series sway brace attachments. Fits from 3/8" (9.4mm) to 7/8" (22.2mm) thick steel structure. For thicknesses less than 3/8" (9.4mm) refer to Fig. 825.

Material: Steel

Function: To attach sway bracing and/or hangers 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 set bolts allow for visual verification of proper installation torque.

Approvals: Factory Mutual Approved (FM). Included in our Seismic Engineering Guidelines approved by the State of California Office of Statewide Health Planning and Development (OSHPD). For additional load, spacing and placement information relating to OSHPD projects, please refer to our Seismic Engineering Guidelines, OPM-0052-13. For UL Listed information refer to UL Listed page 52.

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 or FM guidelines should be followed.

To Install: Place the Fig. 828 on the 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 Fig. 980 or any other TOLCO approved transitional fitting). Use flange nut to secure the swivel fitting*.

Finish: Plain or Electro-Galvanized

Approx. Weight/100: 275 Lbs. (124.7kg)

Order By: Figure number and finish

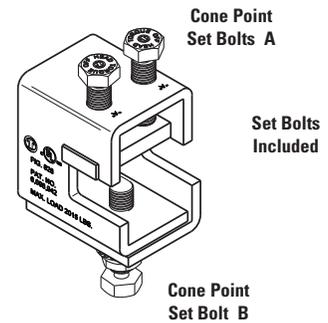
Patent #6,098,942, #8,534,625

Canada Patent #2,286,659

Patent Pending

Designed to meet or exceed requirements of FM DS 2-8.

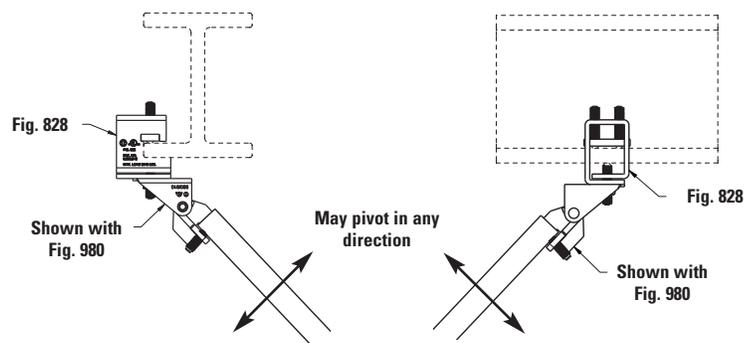
* Retaining strap not required.



FM Approved Allowable Horizontal Load* With Brace Perpendicular To Beam				
Brace Angle (degrees from vertical)				
30°-44°	45°-59°	60°-74°	75°-90°	
1570	2220	1210	700	
(6.98kN)	(9.87kN)	(5.38kN)	(3.11kN)	

FM Approved Allowable Horizontal Load* With Brace Parallel To Beam				
Brace Angle (degrees from vertical)				
30°-44°	45°-59°	60°-74°	75°-90°	
690	970	1210	1330	
(3.07kN)	(4.31kN)	(5.38kN)	(5.91kN)	

FM Approved design loads are based on ASD design method.



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

All dimensions in charts and on drawings are in inches. Dimensions shown in parentheses are in millimeters unless otherwise specified.