

5.0 MODULAR SYSTEM HANGERS

5.8 BRACING

VERTICAL ROD STIFFENERS

Product Features

- Use for seismic compression bracing of threaded rods

Material Specifications

Material	Carbon Steel
Finish	Electro-Galvanized

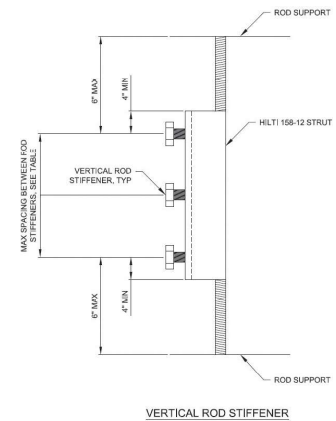
Ordering Information

Description	Hanger Rod/ Bolt Diameter	Qty	Item No.
Hilti Rod Stiffener — Internal (rod in strut)	3/8"-5/8"	25	311943

Technical Data

Threaded Rod Diameter (inches)	Rod Stiffener Bolt Torque (ft-lb)	Max. Spacing Between Rod Stiffeners ¹ (inches)	Allowable Threaded Rod Compression Load (lb)
3/8	8	15	255
1/2	8	20	475
5/8	8	26	760

- 1 Minimum of two rod stiffeners per channel to restrain buckling of the threaded rod
- 2 Compression load based on 13th Edition AISC (360-05)
- 3 Minimum threaded rod yield strength $F_y = 36,000$ psi
- 4 See detail for construction dimensional details
- 5 Strut shall be 1-5/8"



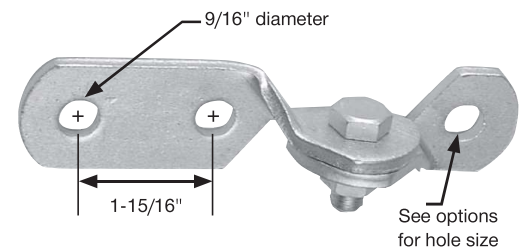
SEISMIC HINGE

Product Features

- For use with Hilti channel profiles, concrete anchors, bolted to structural steel or threaded drop rods to brace against lateral loads

Material Specifications

Material	Carbon Steel, A36
Finish	Electro-Galvanized per ASTM B633 SC1
Conforms with	<ul style="list-style-type: none"> • Bolt conforms to ANSI B18.2.1 • Nut conforms to ANSI B18.2.2



Ordering Information

Description	Hanger Rod/ Bolt Diameter	Qty	Item No.
Seismic Hinge, Strut Half with Bolt and Nut ①	1/2"	10	333309
Seismic Hinge, Base/ Hanger Half, 3/8" ¹ ②	3/8"	10	369714
Seismic Hinge, Base/ Hanger Half, 1/2" ¹ ②	1/2"	10	333308
Seismic Hinge, Base/ Hanger Half, 5/8" ¹ ②	5/8"	10	369715
Seismic Hinge, Base/ Hanger Half, 3/4" ¹ ②	3/4"	10	369716

Technical Data — Allowable Loads²

Hinge Angle	Base Hanger Half to Strut w/ 1 - MQM 1/2" lb	Base Hanger Half to Strut w/ 2 - MQM 1/2" lb	Strut Nut Tightening Torque ft-lb
90	1125	2025	30
90	1200	-	50
45	1200	1815	30
45	1500	-	50
0	1800	1800	30

- 1 Capacity of hanger rod/anchor to concrete must be evaluated separately.
- 2 Based on a safety factor of 2.2.