5.0 Installation System Hangers

5.8 Bracing

Vertical rod stiffeners

Product Features

• Use for seismic compression bracing of threaded rods

Material Specifications

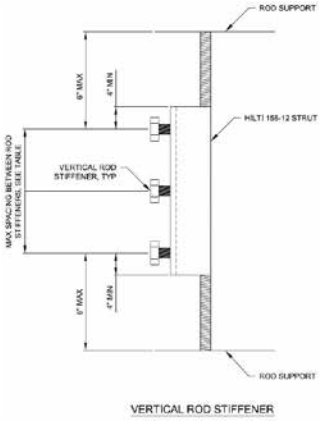
Material	Carbon Steel
Finish	Electro-Galvanized

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

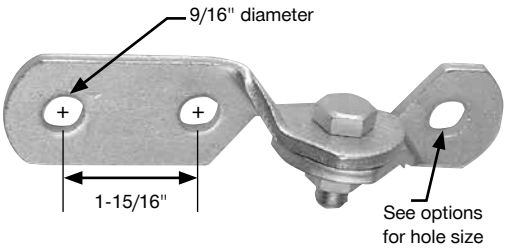
Threaded Rod Diameter (inches)	Rod Stiffener Bolt Torque (ft-lb)	Max. Spacing Between Rod Stiffeners[1] (inches)	Allowable Threaded Rod Compression Load (lb)
3/8	8	15	255
1/2	8	20	475
5/8	8	26	760



VERTICAL ROD STIFFENER

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 Fy = 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	• 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 Loads[2]

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.