



The following excerpt are pages from the [North American Product Technical Guide Volume 3: Modular Support Systems Technical Guide, Edition 1](#) .

Please refer to the publication in its entirety for complete details on this product including load values, approvals/listings, general suitability, finishes, quality, etc.

To consult directly with a team member regarding our modular support system products, contact Hilti's team of technical support specialists between the hours of 7:00am – 6:00pm CST.

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4.0 ADDITIONAL HARDWARE

ROD COUPLERS

Material Specifications

Material	Finish	Thread
ASTM A563 Grade A; Carbon Steel	Zinc electroplated to ASTM B 633-98, SC 1, Type I	Class 2A fit; Class 2B thread



Table 278 - Technical Data and Ordering Information

Description	Length (in)	Width Across Flats (in)	Quantity Pack	Item No.	MSS-SP-58 ¹ Allowable Tensile Load at 650° F (lbs)	AISC ² Allowable Tensile Load (lbs)
1/4" Rod Coupler	7/8	3/8	100	411746	300	780
3/8" Rod Coupler	1-1/8	1/2	50	411747	730	1,750
1/2" Rod Coupler	1-1/4	5/8	50	411748	1,350	3,110
5/8" Rod Coupler	2-1/8	13/16	50	411749	2,160	4,860
3/4" Rod Coupler	2-1/4	1	25	411750	3,230	6,700

- Per MSS-SP-58-2002, the ultimate tensile loads are based on a tensile stress of 50,000 psi multiplied by the threaded rod root area based on coarse thread UNC.
- AISC Allowable Tensile load = $0.33 \times F_u \times A_{nom}$
AISC Allowable Shear load = $0.17 \times F_u \times A_{nom}$

HEX BOLTS

Material Specifications

Material	Dimensions	Finish	Thread
ASTM A307; Stainless Steel 316	ASME/ANSI B18.2.1 - 1981	Zinc electroplated to ASTM B 633-98, SC 1, Type I	Class 2A fit; Class 2B thread; ASME B1.1

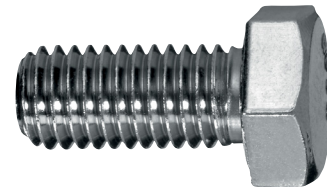


Table 279 - Ordering Information

Description	Quantity Pack	Item No.
Hex head bolt 3/8" x 1-1/4"	100	411764
Hex head bolt 3/8" x 1-1/4" (SS316)	50	411788
Hex head bolt 3/8" x 1-1/2"	100	411765
Hex head bolt 3/8" x 1-1/2" (SS316)	50	411789
Hex head bolt 1/2" x 1"	50	411766
Hex head bolt 1/2" x 1" (SS316)	50	411790
Hex head bolt 1/2" x 1-1/4"	50	411767
Hex head bolt 1/2" x 1-1/4" (SS316)	50	411791
Hex head bolt 1/2" x 1-1/2"	50	411768
Hex head bolt 1/2" x 1-1/2" (SS316)	50	411792