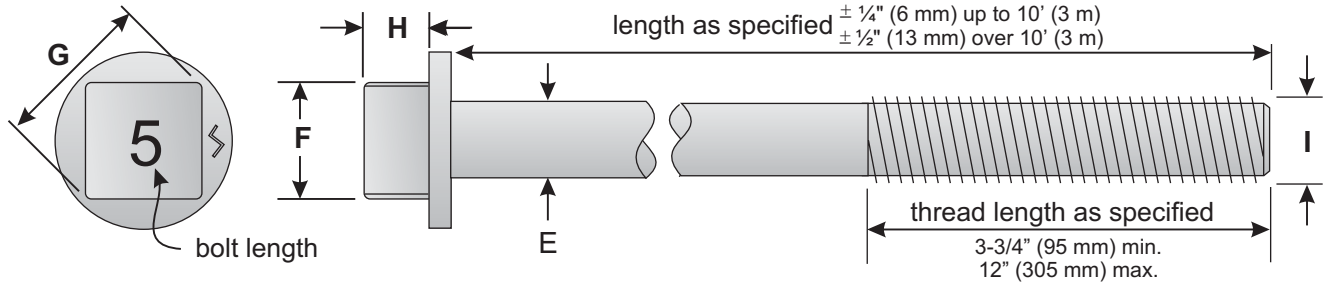


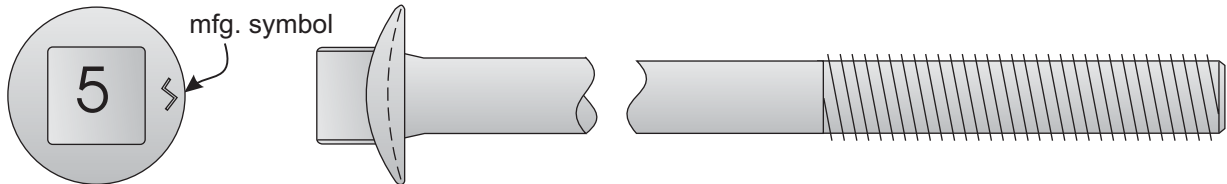
Mechanical Rock Bolts (Forged Head & Threaded)

Nominal 5/8" and 3/4" sizes

FORGED HEAD (1-1/8" SQUARE)



T-DOME (15/16" SQUARE)



THREADED BOTH END (TBE)



DIMENSIONS:

	Head Type	5/8" Bolt	3/4" Bolt
E Body Diameter	All bolts	±0.56" (±14.2 mm)	±0.68" (±17.3 mm)
F Head Across Flats	1 - 1/8" Square T-Dome	1.088" - 1.125" (27.64 - 28.58 mm) 0.906" - 0.938" (23.01 - 23.83 mm)	
G Head Across Corners	1 - 1/8" Square T-Dome	1.425" - 1.591" (36.19 - 40.41 mm) 1.244" - 1.326" (31.60 - 33.68 mm)	
H Head Height	1-1/8" Square & T-Dome	0.40" (10.16 mm)	
I Thread Size, left & right	All bolts	5/8" - 11 UNC	3/4" - 10 UNC

All dimensions in accordance with ASTM F432 & CSA M430-90 specifications

TECHNICAL DATA:

	C1060 Steel		C1070	C1070M
	5/8" Bolt	3/4" Bolt	5/8" Bolt	5/8" TBE Bolt
Yield Strength, min.	13,600 lbs (60 kN)	20,000 lbs (89 kN)	17,100 lbs (76 kN)	28,400 lbs (126 kN)
Tensile Strength, min.	22,600 lbs (100 kN)	33,400 lbs (148 kN)	31,200 lbs (139 kN)	35,000 lbs (156 kN)
Ultimate Axial Strain	Minimum 12%		Minimum 8%	Minimum 2.2%

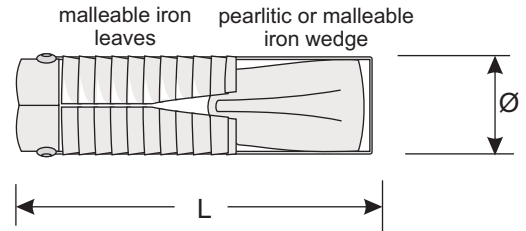
All mechanical & physical properties in accordance with ASTM F432, ASTM A29 & CSA M430-90 specifications.
3/4" steel special order.

Installation Accessories

Mechanical rock bolts

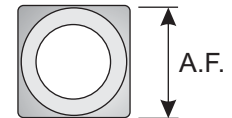
EXPANSION SHELLS

- for 5/8" & 3/4" UNC threads
- $\varnothing = 1\text{-}1/4"$ (32 mm) hole size:
model F1-1/4B, L = 3-1/4"
- $\varnothing = 1\text{-}3/8"$ (35 mm) hole size:
model F2B, L = 2-7/8"
- $\varnothing = 1\text{-}3/4"$ (45 mm) hole size:
model D5-1, L = 3"



NUTS

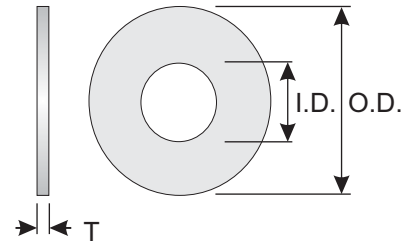
- for TBE rock bolts only
- for 5/8" and 3/4" UNC thread:
- A.F. = 1-1/8" square
- T = 0.8"



3/4" & 5/8" square nut

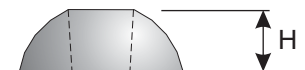
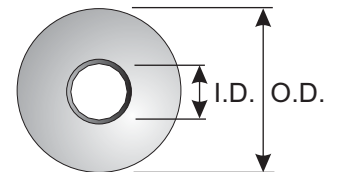
HARDENED ROUND WASHERS

- to ASTM F436 specifications
- for 5/8" and 3/4" thread
- I.D. = 13/16"
- O.D. = 1-15/32"
- T = 0.122" to 0.177"



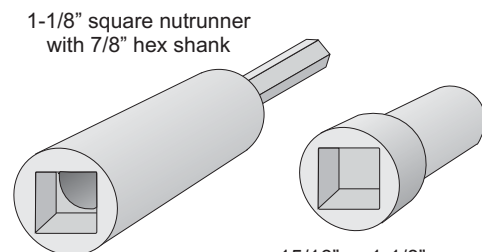
SPHERICAL SEAT (COMPENSATION) WASHERS

- ductile iron ASTM A536 Gr. 65-45-12
- for 5/8" thread:
I.D. = 11/16", O.D. = 2", H = 3/4" (model TSW-2)
I.D. = 15/16", O.D. = 2", H = 1/2" (model TSW)
- for 3/4" thread:
I.D. = 13/16", O.D. = 2", H = 13/16" (model TSW-4)
I.D. = 15/16", O.D. = 2", H = 1/2" (model TSW)



INSTALLATION TOOLS - for stopers/jacklegs

- for forged head rockbolts:
1-1/8" square driver
15/16" square driver (for T-Dome bolts)
- for TBE bolts:
1-1/8" square nutrunner
- available with 7/8" hex shank or socket



15/16" or 1-1/8" square driver with 7/8" hex socket

Rope thread and T-thread drivers and nutrunners available on request