

Product Information Sheet

HEAVY HEX BOLTS, GRADE B, FULL BODY, INCH SERIES

Manufacturer's test reports are typically available for this product

Typical Material: Low Carbon Steel

Material and Mechanical Properties: Purchased to meet ASTM A307 Grade B

Dimensions: ASME B18.2.1 Full Body, Rolled Threads

Zinc Plating: Purchased to meet ASTM F1941 FeZn3A

Hot-Dip Galvanized: Purchased to meet ASTM A153

Typical Hardness: HRB 69-95

Tensile Strength: 60,000 PSI Minimum/100,000 PSI Maximum



TENSILE STRENGTH ASTM A307 GRADE B - NC THREADS

Size	PSI (Min)	Lbs. (Min)	PSI (Max)	Lbs. (Max)
1/2-13	60,000	8500	100,000	14,190
5/8-11	60,000	13,550	100,000	22,600
3/4-10	60,000	20,050	100,000	33,400
7/8-9	60,000	27,700	100,000	46,200
1-8	60,000	36,350	100,000	60,600
1 1/8-7	60,000	45,800	100,000	76,300
1 1/4-7	60,000	58,150	100,000	96,900

LENGTH TOLERANCES FOR HEX BOLTS

Nominal Length	Nominal Size					
	1/4 to 3/8	7/16 & 1/2	9/16 to 3/4	7/8 to 1	1 1/8 to 1 1/2	over 1 1/2
up to and incl. 1 inch	+0.02/-0.03	+0.02/-0.03	+0.02/-0.03			
Over 1" to 2 1/2" incl.	+0.02/-0.04	+0.04/-0.08	+0.06/-0.08	+0.08/-0.10	+0.12/-0.12	+0.18/-0.18
over 2 1/2 to 4" incl.	+0.04/-0.06	+0.06/-0.08	+0.08/-0.10	+0.10/-0.10	+0.16/-0.16	+0.20/-0.20
over 4" to 6", incl.	+0.06/-0.10	+0.08/-0.10	+0.10/-0.10	+0.12/-0.16	+0.18/-0.18	+0.22/-0.22
Over 6"	+0.10/-0.18	+0.12/-0.18	+0.14/-0.20	+0.16/-0.20	+0.22/-0.22	+0.24/-0.24

WRENCH / SOCKET SIZES - HEAVY HEX BOLTS

Bolt Size	Socket Size	Bolt Size	Socket Size
1/2	7/8	1	1 5/8
5/8	1 1/16	1 1/8	1 13/16
3/4	1 1/4	1 1/4	2
7/8	1 7/16		



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