

Structural bolts per ASTM A325 are made to the dimensional requirements of ANSI/ASME B18.2.6 and feature a larger width across the flats (heavy hex) than standard grade 5 or 8 hex cap screws would have. Structural bolts also have a shorter thread length than is found on grade 5 and grade 8 bolts and screws.

A325 bolts are the most commonly specified structural bolt grade for use in the construction of buildings, warehouses and bridges. The A325 strength level is very similar to the SAE grade 5 strength level.



Marking: A325 and manufactures ID

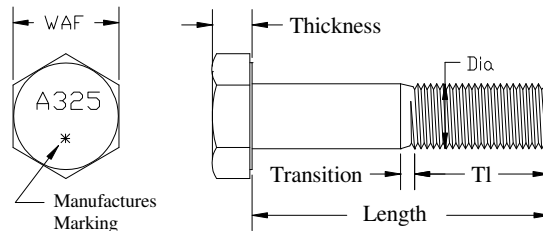
Material: Medium Carbon (or Alloy) Steel

Carbon	Manganese	Phosphorus	Sulfur
.30 to .55	.060 min	.035 max	.040 max

Tensile Strength:	1/4 to 1" Dia	120,000 psi min
	1 1/8 to 1 1/2" Dia	105,000 psi min

Percent Elongation: 14% min

Hardness (Core):	1/4 to 1" Dia	Rc 25 / 34
	1 1/8 to 1 1/2" Dia	Rc 19 / 30



Nominal Size	WAF	Head Thickness	Thread Length	Thread Transitional
1/2	7/8	5/16	1.0	.19
5/8	1 1/16	25/64	1.25	.22
3/4	1 1/4	15/32	1.38	.25
7/8	1 7/16	35/64	1.50	.28
1	1 5/8	39/64	1.75	.31
1 1/8	1 13/16	11/16	2.0	.34
1 1/4	2	25/32	2.0	.38
1 3/8	2 3/16	27/32	2.25	.44
1 1/2	2 3/8	15/16	2.25	.44

Lengths that are fully threaded

Nominal Size	Lengths up to
1/2"	1 1/4
5/8	1 1/2
3/4	1 3/4
7/8	2
1	2 1/4
1 1/8	2 3/4
1 1/4	2 3/4
1 3/8	3
1 1/2	3