

Porteous Fastener Company

Product Information Sheet

Carriage Bolt, Inch Series, Grade 5



- PFC Product Category: 00105
- Typical Material: Medium Carbon Steel
- Material and Mechanical Properties: Purchased to meet SAE J429 Grade 5.
- Dimensions: ASME B18.5, Round Head Square Neck Bolt, Rolled Threads
 - Full thread to 6 inches in length.
 - Normally available in sizes 1/4 through 3/4.
- Zinc Plating: Purchased to meet ASTM F1941 FeZn3A
- Typical Hardness: HRC 25-34 on sizes 1/4 to 1 inch
- Tensile Strength: 120,000 PSI Minimum on sizes 1/4 to 1 inch

Tensile Strength - NC Threads		
Size	PSI	Pounds
1/4-20	120,000	3800
5/16-18	120,000	6300
3/8-16	120,000	9300
7/16-14	120,000	12,800
1/2-13	120,000	17,000
9/16-12	120,000	21,800
5/8-11	120,000	27,100
3/4-10	120,000	40,100
7/8-9	120,000	55,400
1-8	120,000	72,700

Length Tolerances - Carriage Bolts				
Nominal Length	Nominal Size			
	#10 to 3/8	7/16 & 1/2	9/16 to 3/4	7/8 to 1
Tolerance on Length				
Up to & incl 1"	+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/-0.05	+0.06/-0.08	+0.08/-0.10
Over 2 1/2" to 4", incl.	+0.04/-0.06	+0.06/-0.08	+0.08/-0.10	+0.10/-0.14
Over 4" to 6", incl.	+0.06/-0.10	+0.08/-0.10	+0.10/-0.10	+0.12/-0.16
Over 6"	+0.10/-0.18	+0.12/-0.18	+0.14/-0.18	+0.16/-0.20