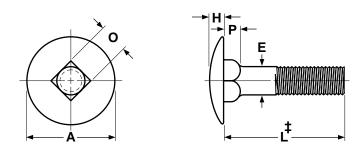
Cap Screws & Bolts



‡Length of a step bolt is measured from the underhead bearing surface to the extreme end of the bolt.

STEP BOLTS ANSI/ASME B18.5										
Nominal Size	E Body Diameter		A Head Diameter		H Head Height		O Square Width		P Square Depth	
	10	0.199	0.182	0.656	0.625	0.114	0.094	0.199	0.185	0.125
1/4	0.260	0.237	0.844	0.813	0.145	0.125	0.260	0.245	0.156	0.125
5/16	0.324	0.298	1.031	1.000	0.176	0.156	0.324	0.307	0.187	0.156
3/8	0.388	0.360	1.219	1.188	0.208	0.188	0.388	0.368	0.219	0.188
							-			
					Nominal Bolt Length					
Tolerance on Length		Nominal Bolt Size			Up to 1 in., incl.		Over 1 in. to 2-1/2 in., incl.		Over 2-1/2 in. to 4 in., incl.	
		No. 10 thru 3/8			+0.02, -0.03		+0.02, -0.04		+0.04, -0.06	

Description	Similar to a carriage bolt in bearing surface and square-neck design, but with a wider, lower-profile, round head.					
Applications/ Advantages	Preferred for use where wood is bolted down as deckingthe larger diameter head of the step bolt will not pull through the soft wood. Smooth, low, rounded head permits unrestricted movement over the surface.					
Material	AISI 1006 - 1050 or equivalent steel.					
Hardness	No. 10 through 3/8 in. diameter, all lengths: Rockwell B70 - B100					
Proof Load	No. 10 through 3/8 in. diameter, all lengths: 33,000 psi.					
Yield Strength	No. 10 through 3/8 in. diameter, all lengths: 36,000 psi. minimum					
Tensile Strength	No. 10 through 3/8 in. diameter, all lengths: 54,000 psi. minimum					
Elongation	18% minimum (all sizes)					
Reduction of Area	35% minimum (all sizes)					
Minimum Thread Length	The minimum length of thread shall be equal to twice the basic bolt diameter plus 0.25 in					
Plating	See Appendix-A for plating information.					

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