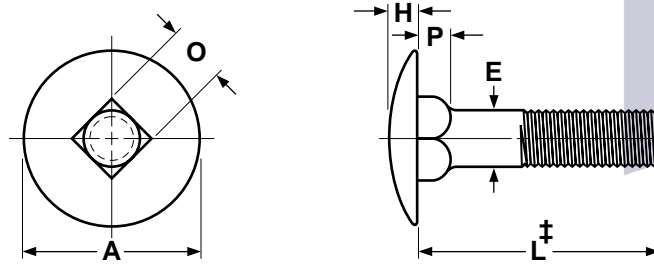


Cap Screws & Bolts

Step Bolts



SUPPLY CORP.

est. / 1946

‡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 | | A | | H | | O | | P | | |
| | Body Diameter | | Head Diameter | | Head Height | | Square Width | | Square Depth | | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | |
| 10 | 0.199 | 0.182 | 0.656 | 0.625 | 0.114 | 0.094 | 0.199 | 0.185 | 0.125 | 0.094 | |
| 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 | |

| Tolerance on Length | Nominal Bolt Size | Nominal Bolt Length | | |
|---------------------|-------------------|---------------------|--------------------------------|--------------------------------|
| | | 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 decking--the 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. |