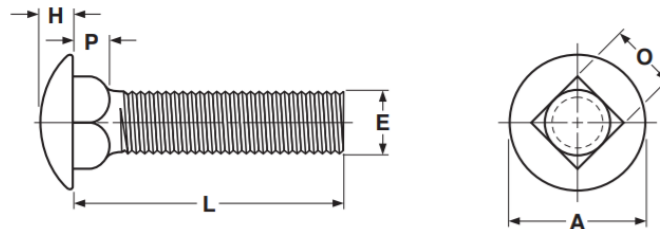


Metallics

An **AMERICAN** Source For Premier
and Innovative Fasteners and Anchors

CARRIAGE BOLTS – STEEL ZINC AND GALVANIZED

The following Specification Sheet applies to all **Carriage Bolts – Steel Zinc and Galvanized** in our **CB and JCB** series.



CARRIAGE BOLTS										ASME B18.5-1990	
Basic Bolt Diameter		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	0.1900	0.199	0.182	0.469	0.436	0.114	0.094	0.199	0.185	0.125	0.094
1/4	0.2500	0.260	0.237	0.594	0.563	0.145	0.125	0.260	0.245	0.156	0.125
5/16	0.3125	0.324	0.298	0.719	0.688	0.176	0.156	0.324	0.307	0.187	0.156
3/8	0.3750	0.388	0.360	0.844	0.782	0.208	0.188	0.388	0.368	0.219	0.188
1/2	0.5000	0.515	0.483	1.094	1.032	0.270	0.250	0.515	0.492	0.281	0.250

Description	<i>Low Carbon Steel Carriage:</i> Round head bolt with a square neck under the head, and a unified thread pitch. Made from low or medium carbon steel.
Applications/Advantages	<i>Hot-Dip Galvanized Steel Carriage:</i> Carriage bolt made from low or medium carbon steel with a galvanic zinc finish applied. <i>Low Carbon Steel Carriage:</i> The square neck is designed to keep the bolt from turning as a nut is tightened. <i>Hot-Dip Galvanized Steel Carriage:</i> Same design advantages as a low carbon carriage bolt but with a thicker protective coating for outdoor use. Often used in outdoor furniture.
Material	<i>Low Carbon Steel & Hot-Dip Galvanized Steel Carriage:</i> AISI 1006 - 1050 or equivalent steel.
Core Hardness	<i>Low Carbon Steel & Hot-Dip Galvanized Steel Carriage:</i> Rockwell B70 - B100
Proof Load	<i>Low Carbon Steel Carriage:</i> 33,000 psi.
Yield Strength*	<i>Low Carbon Steel Carriage:</i> 36,000 psi. minimum
Tensile Strength	<i>Low Carbon Steel Carriage:</i> 60,000 psi. minimum
Elongation*	<i>Low Carbon Steel Carriage:</i> 18% minimum
Reduction of Area*	<i>Low Carbon Steel Carriage:</i> 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. for bolts 6 in. or shorter, and twice the diameter plus 0.50 in. for bolts longer than 6 in..

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