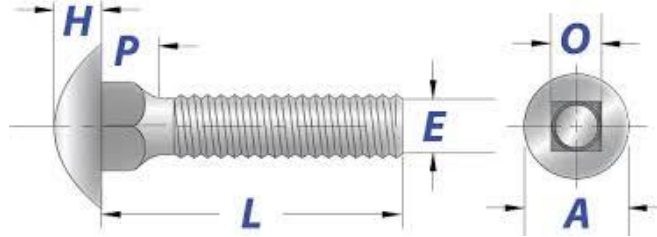




Cordova Bolt, Inc.

Carriage Bolt Product Information

1.0 Dimensions: ASME B18.5



Nominal Size or Basic Product Diameter	A		H		O		P		Q
	Head Diameter		Head Height		Square Width		Square Depth		Corner Radius On Square
	Max	Min	Max	Min	Max	Min	Max	Min	Max
# 10	0.469	0.436	0.114	0.094	0.199	0.185	0.125	0.094	0.031
1/4	0.594	0.563	0.145	0.125	0.260	0.245	0.156	0.125	0.031
5/16	0.719	0.688	0.176	0.156	0.324	0.307	0.187	0.156	0.031
3/8	0.844	0.782	0.208	0.188	0.388	0.368	0.219	0.188	0.047
7/16	0.969	0.907	0.239	0.219	0.452	0.431	0.250	0.219	0.047
1/2	1.094	1.032	0.270	0.250	0.515	0.492	0.281	0.250	0.047
5/8	1.344	1.219	0.344	0.313	0.642	0.616	0.344	0.313	0.078
3/4	1.594	1.469	0.406	0.375	0.768	0.741	0.406	0.375	0.078
7/8	1.844	1.719	0.459	0.438	0.895	0.865	0.469	0.438	0.094
1	2.094	1.969	0.531	0.5	1.022	0.99	0.531	0.5	0.094

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2.0 Mechanical Properties (For Full Size Bolt Testing):

2.1 Steel: ASTM A307 Grade A

Grade	Length	Hardness	tensile Strength Minimum	Grade Marking
A	Less than 3 times the diameter	69 to 100 HRB	60,000 PSI	307A
	3 times the diameter and longer	100 HRB Max		

2.2 Steel: SAE J429 Grade 5

Classification		Rockwell Hardness	Proof Load Strength Minimum	Tensile Strength Minimum	Grade Marking
Grade	Nominal Size				
5	1/4 thru 1	C25 to C34	85,000 PSI	120,000 PSI	3 Radial Lines 120 degrees apart

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2.3 Stainless Steel ASTM F593

Classification		Condition	Tensile Strength KSI	Yield Strength KSI	Rockwell Hardness
Type	Nominal Size				
304 (18-8) & 316	1/4 to 5/8 incl	CW1	100 to 150	65	B95 to C32
	3/4 to 1-1/2 incl	CW2	85 to 140	45	B80 to C32

3.0 Surface Finish: Plain/Zinc/HDG. Zinc and HDG details below

Properties	Zinc Clear	Zinc Yellow	Hot Dip Galvanized (HDG)
Type	Trivalent (C+3)	Hexavalent (Cr+6)	RoHS Compliant
Color	Clear	Yellow	
Minimum Coating Thickness	0.0001”/3 Microns or 0.0002”/5 Microns	0.0001”/3 Microns or 0.0002”/5 Microns	Coating thickness for sizes 3/8 “ & under : 0.0017” (43 microns) and for sizes over 3/8 “ : 0.0020” (50 microns)
Specification	ASTM F1941/F1941M Fe/Zn 3AN or Fe/Zn 5AN	ASTM F1941/F1941M Fe/Zn 3C or Fe/Zn 5C	ASTM F2329/F2329M or ASTM A153/A153M

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