THE STORE STATES AND LABELING SPECIALIST



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Please contact me with any questions regarding our products and services.

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## Do you know what grade fastener you need?

Grade Marking	Specification	Material	Bolt and Screw Size in.	Proof Load. psi	Tensile Strength min.,psi
$\bigcirc$	SAE-Grade 1	Low Carbon Steel	1/4 thru 1-1/2	33,000	60,000
	ASTM-A 307		1/4 thru 1-1/2 Over 1-1/2 thru 4	33,000	60,000 55,000
	SAE-Grade 2	Low Carbon Steel	1/4 thru 3/4 Over 3/4 thru 1-1/2	55,000 33,000	74,000
	SAE-Grade 5	Medium Carbon Steel, Quenched and Tempered	1/4 thru 1 Over 1 thru 1-1/2	85,000 74,000	120,000
	ASTM-A 449		1/4 thru 1 Over 1 thru 1-1/2 Over 1-1/2 thru 3	85,000 74,000 55,000	120,000 105,000 90,000
A325	ASTM-A 325	Medium Carbon Steel Quenched and Tempered	1/2, 5/8, 3/4 7/8, 1 1-1/8 thru 1-1/2	85,000 78,000 74,000	120,000 115,000 105,000
$\langle \vdots \rangle$	SAE-Grade 8	Medium Carbon Alloy Steel, Quenched and Tempered	- 1/4 thru 1-1/2	120,000	150,000
	ASTM-A 354 Grade BD	Alloy Steel, Quenched and Tempered			
A490	ASTM-A 490	Alloy Steel, Quenched and Tempered	1/2 thru 2-1/2 Over 2-1/2 thru 4	120,000 105,000	150,000 140,000

Fasteners, such as bolts and screws, bear markings on their top or side that provide crucial information about their properties. Grade 8 bolts, symbolized by markings like "8.8" or "G8," are highly sought after for their exceptional strength, making them ideal for heavy machinery, critical structural steel connections, and demanding industrial applications. In contrast, grade 5 bolts, marked as "5.8" or "G5," are commonly employed in automotive assemblies, construction projects, and general-purpose applications. Their balance of strength and cost-effectiveness makes them suitable for structural assemblies, engine components, and various construction needs. These markings serve as a guide for selecting the right fasteners for specific tasks, ensuring reliability and safety in diverse industries.

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