## **TECHNICAL DOCUMENTS**



Bolt Head	Grade & Material	Nominal Size Range (in)	Mechanical Properties		
			Proof Load	Min Yield Strength	Min Tensile
307A	<b>307A</b> Low Carbon Steel	1/4" to 4"	N/A	N/A	60,000
	Grade 2 Low/Medium Carbon Steel	1/4" to 3/4"	55,000	57,000	74,000
		Over 3/4" to 1-1/2"	33,000	36,000	60,000
	<b>Grade 5</b> Medium Carbon Steel, quenched and tempered	1/4" to 1"	85,000	92,000	120,000
		Over 1" to 1-1/2"	74,000	81,000	105,000
	Grade 8  Medium Carbon alloy steel, quenched and tempered	1/4" to 1-1/2"	120,000	130,000	150,000
651	651 Silicon Bronze Alloy of copper, tin & silicon	1/4" to 3/4"	N/A	55,000	70,000
		7/8" to 1-1/2"	N/A	40,000	55,000
2024	Aluminum Aluminum alloy	All sizes	N/A	36,000	55,000