

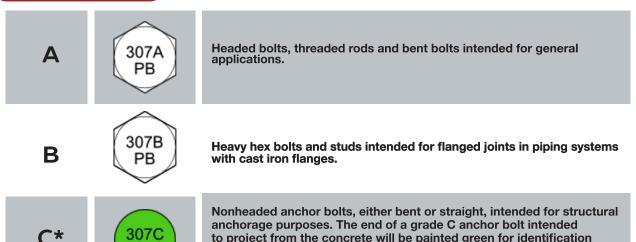
# ASTM A307

## **TECHNICAL SPECIFICATIONS**

#### SCOPE

The ASTM A307 specification covers carbon steel bolts and studs ranging from 1/4 through 4 diameter. This is your everyday, run of the mill bolt specification often manufactured using A36 round bar. There are three grades A, B, and C\* which denote tensile strength, configuration, and application. Refer to the Mechanical Properties Chart for the subtle strength differences within each grade.

#### A307 GRADES



anchorage purposes. The end of a grade C anchor bolt intended to project from the concrete will be painted green for identification purposes. Permanent marking is a supplemental requirement. \*As of August 2007, grade C has been replaced by specification F1554 grade 36. We will continue to supply grade C, if required by the project.

#### A307 MECHANICAL PROPERTIES

PB

#### A307 CHEMICAL PROPERTIES

**GRADE B** 

0.29%

1.20%

0.04%

0.05%

	GRADE	TENSILE, KSI	YIELD, MIN, KSI	ELONG %, MIN	ELEMENT	GRADE A	
	А	60 min		18	Carbon, max	0.29%	
	В	60 - 100		18	Manganese, max	1.20%	
	C*	58 - 80	36	23	Phosphorus, max	0.04%	
					Sulfur, max	0.15%	

### A307 RECOMMENDED HARDWARE

	NUTS					
	A307 GRA	DES A & C*	A307 GRADES B			
1/4 - 1-1/2		1/4 - 1-1/2	1/4 - 1-1/2	WASHER		
A56	3A Hex	A563A Heavy Hex	A563A Heavy	Hex F844		