




The American Society for Testing and Materials is an international standards organization that develops and publishes voluntary consensus technical standards for a wide range of materials, products, systems, and services.

ASTM A307 Carbon steel bolts and studs, 60,000 psi tensile strength.

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

A		Headed bolts, threaded rods and bent bolts intended for general applications.
B		Heavy hex bolt and studs intended for flange joints in piping systems with cast iron flanges.
C		Non-headed anchor bolts, either bent or straight, intended for structural 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 *As of August 2007, grade C has been replaced by specification F1554 grade 36.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

Grade	Tensile, ksi	Yield, min, ksi	Elong %, min
A	60min	--	18
B	60-100	--	18
C*	58-80	36	23

#### A307 Chemical Properties

Element	Grade A	Grade B
Carbon, max	0.29%	0.29%
Manganese, max	1.20%	1.20%
Phosphorus, max	0.04%	0.04%
Sulfur, max	0.15%	0.05%

#### A307 Recommended Hardware

Nuts			Washers
A307 Grades A & C*		A307 Grade B	
1/4 - 1-1/2	1-5/8 - 4	1/4 - 4	F844
A563A Hex	A563A Heavy Hex	A563A Heavy Hex	



HAIYAN BOLT

海盐百伦紧固件有限公司