

**All Thread Rod ASTM A307 Gr. C**  
 SUBMITTAL SPECIFICATIONS  
 Abstract of ASTM A307-10 and F1554-07A

Material Grade: Low Carbon, 36 KSI Yield, F1554-36

Chemical Requirements (%)

SIZE IN INCHES	Carbon	Manganese	Phosphorus Max	Sulfur Max	Copper Min When Specified
Up to 3/4	0.26	*	0.04	0.05	0.20
Over 3/4 to 1-1/2	0.27	0.60 to 0.90	0.04	0.05	0.20
Over 1-1/2 to 4	0.28	0.60 to 0.90	0.04	0.05	0.20

\* Optional with the manufacturer but shall be compatible with weldable steel

Mechanical Requirements

SIZE IN INCHES	TENSILE KSI	YIELD(MIN) KSI	ELONGATION IN 2 IN. MIN (%)	ELONGATION IN 8 IN. MIN (%)	REDUCTION OF AREA MIN (%)
1/4 TO 4	58 - 80	36	23	20	40

When Grade 36 is specified, a weldable Grade 55 may be furnished at the supplier's option.

Identification Marking: Color Code Blue

- Color coding is required unless the grade is stamped in accordance with supplemental req.(S3)
- Stamping of F1554 bolts with manufacturers identification is a supplemental requirement (S2)

Recommended Hardware:

SIZE INCHES	PLAIN NUTS	HDG NUTS	WASHERS
1/4 TO 1-1/2	A563A HEX	A563A HEX	F436
1-3/4 TO 4	A563A HVY HEX	A563A HVY HEX	F436

Finish Options:

Plain

Zinc to ASTM B633 TYII

HDG to ASTM A153\*F2329

**Supplementary Testing:**

**Supplementary requirements shall apply only when specified in the purchase order or contract**

**S1:** Weldable version of the Grade 55 specification. Through chemical composition restrictions and by a carbon equivalency formula, S1 provides assurance of weldability. When S1 is not specified, the Grade 55 material may or may not be weldable.

**S2:** Permanent manufacturer's identification on the end of the anchor bolt that projects from the concrete.

**S3:** Permanent grade identification on the end of the anchor bolt that projects from the concrete in lieu of color coding. AB36 for Grade 36.