

Anchor Bolts ASTM F1554 Gr. 55

SUBMITTAL SPECIFICATIONS

Abstract of ASTM F1554-07A

Material Grade: High Strength, Low Alloy, 55 KSI Yield – ASTM F1554-55

Chemical Requirements (%)

Phosphorous (max):	0.040
Sulfur (max):	0.050
Copper (min)*:	0.20
*When Specified	

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 2	75-95	55	21	18	30
2-1/4 TO 2-1/2	75-95	55	21	18	22
2-3/4 TO 3	75-95	55	21	18	20
3-1/4 TO 4	75-95	55	21	18	18

Identification Marking: Color Code Yellow

- 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 HVY 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. AB55 for Grade 55.

S4: Charpy Impact requirements at +40 deg F. The minimum Charpy V-notch energy requirement is an average of 15ft-lbs for three specimens, with no one specimen falling below 12ft-lbs.