

ASTM F1554 ANCHOR BOLTS

STEEL

36,55, AND 105 KSI YIELD STRENGTH

MECHANICAL PROPERTIES

GRADE	TENSILE STRENGTH, KSI (MPa)	YIELD STRENGTH, MIN, KSI (MPa)	SIZE RANGE IN. (MM)
36	58-80 (400-558)	36 (248)	¼-4 (6.4-102)
55	75-95 (517-655)	55 (380)	¼-4 (6.4-102)
105	125-150 (862-1034)	105 (724)	¼-3 (6.4-76)

CLASS

1A	ANCHOR BOLTS WITH CLASS 1A THREADS
2A	ANCHOR BOLTS WITH CLASS 2A THREADS

CHEMICAL PROPERTIES

		GRADE 36		GRADES 55 AND 105
ELEMENT	TO ¾" (20)INCL	OVER ¾" TO 1-1/2"(20-40)INCL	OVER 1-1/2" TO 4"(40 TO 100)INCL	
CARBON, MAX, % HEAT PRODUCT	0.26 0.29	0.27 0.30	0.28 0.31	
MANGANESE, % HEAT PRODUCT	OPTIONAL WITH THE MFG BUT MUST BE COMPATIBLE WITH WELDABLE STEEL	0.60-0.90 0.54-0.98	0.60-0.90 0.54-0.98	
PHOSPHORUS, MAX,% HEAT PRODUCT	0.04 0.05	0.04 0.05	0.04 0.05	0.040 0.048
SULFUR, MAX,% HEAT PRODUCT	0.05 0.06	0.05 0.06	0.05 0.06	0.050 0.058
COPPER, MIN, %(WHEN SPECIFIED) HEAT PRODUCT	0.20 0.18	0.20 0.18	0.20 0.18	0.20 0.18

F1554 COVERS STRAIGHT AND BENT, HEADED AND HEADLESS, CARBON, CARBON BORON, ALLOY, OR HIGH-STRENGTH LOW-ALLOY STEEL ANCHOR BOLTS. THE NUTS USED WITH A F1554 ANCHOR NEEDS TO HAVE A PROOF LOAD STRESS EQUAL TO OR HIGHER THAN THE MINIMUM TENSILE STRENGTH SPECIFIED FOR THE ANCHOR BOLT LISTED IN A194 OR A563 SPECIFICATIONS FOR NUTS

NOTE: PROPERTIES AND APPLICATION PARAMETERS ARE TYPICAL AND ARE PRESENTED IN GOOD FAITH BUT NO WARRANTY IS EXPRESSED OR IMPLIED.