

Materials Strength Guide

GRADE	SIZE	YIELD	TENSILE	% OF ELONGATION	% OF REDUCTION IN AREA
A36	ALL	36,000			
1554 GR 36	ALL	36,000	58,000		
1554 GR 55	ALL	55,000	75,000	21	30
1554 GR 105	ALL	105,000	125,000	15	45
A449	1/4 - 1"	92,000	120,000	14	35
A449	1-1/8 - 1-1/2"	81,000	105,000	14	35
A449	1-5/8 - 3"	58,000	90,000	14	35
A193B7	1/4 - 2-1/2"	105,000	125,000	16	50
A193B7	2-5/8 - 4"	95,000	115,000	16	50
A354BD	1/4 - 2-1/2"	130,000	150,000	14	40
A354BD	2-5/8 - 4"	115,000	140,000	14	40

Strengths for all Materials are based on ASTM minimums.

All strength values are given in pounds per square inch.

A36 is rod specification to cover A307 Grade C.

A449 is rod specification equivalent to A325.

A354 BD is equivalent to A490 in strength.

STAINLESS STEEL AND ALL OTHER MATERIALS ARE AVAILABLE