

Materials Strength Reference Guide

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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

MATERIALS

- Low Carbon Steel
- T304 / T316 Stainless
- ASTM A 193 B7 / ASTM F1554 Grade 55
- Silicon Bronze

FINISHES

- Plain / Oil
- Clear Zinc Plated
- Hot Dip Galvanized
- Black Oxide

- 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.

THREADS

- Coarse (right & left hand)
- Fine (right & left hand)
- Metric
- Acme