

Heat Treatment Stainless: The austenitic alloys develop their strength through work hardening during the fastener manufacturing process, as seen from the hardness properties below. The only heat treatment normally available on austenitic stainless alloys is annealing, which is done at approximately 1900°F to a dead soft condition and is not normally thermally reversible.

| Hardness                 | Steel: Rockwell B70 - B100.<br>Stainless: 1/4 through 1/2 in. diameter Rockwell B95 - C32.  |
|--------------------------|---|
| Tensile Strength         | <b>Steel:</b> 60,000 psi. minimum<br><b>Stainless:</b> 100,000 - 125,000 psi. (approximate)   |
| Minimum Thread<br>Length | The minimum length of thread shall be equal to 1/2 the nominal screw length plus 0.50 in., or 5.00 in., whichever is shorter.<br>Screws too short for this formula shall be threaded as close to the head as practicable. |
| Plating                  | See Appendix-A for information on the plating of steel lag bolts.   |

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