

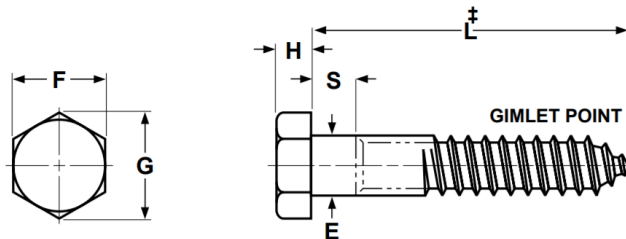


Metallics

An **AMERICAN** Source For Premier
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HEX LAG BOLTS – STEEL ZINC, 18-8 STAINLESS STEEL, AND GALVANIZED

The following Specification Sheet applies to all **Hex Lag Bolts – Steel Zinc, 18-8 Stainless Steel, and Galvanized** in our **BLS and JBS** series.



| HEX LAG SCREWS | | | | | | | | | | | | ASME B18.2.1-1996 | |
|------------------------|--------|--------------------|---------------------------|----------------------|--------------------|------------|-------|----------------------|-------|-------------|-------|-------------------|-----------------|
| Basic Product Diameter | | Threads Per Inch | E | | F | | | G | | H | | | S |
| | | | Body or Shoulder Diameter | | Width Across Flats | | | Width Across Corners | | Head Height | | | Shoulder Length |
| | | | Max | Min | Basic | Max | Min | Max | Min | Basic | Max | Min | Min |
| 1/4 | 0.2500 | 10 | 0.260 | 0.237 | 7/16 | 0.438 | 0.425 | 0.505 | 0.484 | 11/64 | 0.188 | 0.150 | 0.094 |
| 5/16 | 0.3125 | 9 | 0.324 | 0.298 | 1/2 | 0.500 | 0.484 | 0.577 | 0.552 | 7/32 | 0.235 | 0.195 | 0.125 |
| 3/8 | 0.3750 | 7 | 0.388 | 0.360 | 9/16 | 0.562 | 0.544 | 0.650 | 0.620 | 1/4 | 0.268 | 0.226 | 0.125 |
| 1/2 | 0.5000 | 6 | 0.515 | 0.482 | 3/4 | 0.750 | 0.725 | 0.866 | 0.826 | 11/32 | 0.364 | 0.302 | 0.156 |
| 3/4 | 0.7500 | 4-1/2 | 0.768 | 0.729 | 1-1/8 | 1.125 | 1.088 | 1.299 | 1.240 | 1/2 | 0.524 | 0.455 | 0.375 |
| Tolerance on Length | | Nominal Screw Size | | Nominal Screw Length | | Thru 6 in. | | Over 6 in. | | | | | |
| | | | | 1/2 and smaller | | ±0.12 | | ±0.25 | | | | | |
| | | Over 1/2 | | ±0.25 | | ±0.25 | | ±0.25 | | | | | |

‡Length of a lag screw is measured from the underhead bearing surface to the extreme end of the screw.

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| | |
|-------------------------------------|---|
| Description | A full-bodied bolt with hex head, spaced threads and a gimlet point. |
| Applications/ Advantages | Steel, Electro-plated Zinc: For use in wood in non-corrosive environments. Steel, Hot-Dip Galvanized: For use in corrosive environments. Stainless: Has superior corrosion resistance to galvanized steel bolts. |
| Material | Steel: AISI 1006 - 1022 or equivalent steel. Stainless: 18-8 stainless. |
| 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. Stainless: 1/4 through 1/2 in. diameter-- Rockwell B95 - C32. |
| Tensile Strength | Steel: 60,000 psi. minimum Stainless: 100,000 - 125,000 psi. (approximate) |
| Minimum Thread 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. Screws too short for this formula shall be threaded as close to the head as practicable. |

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