

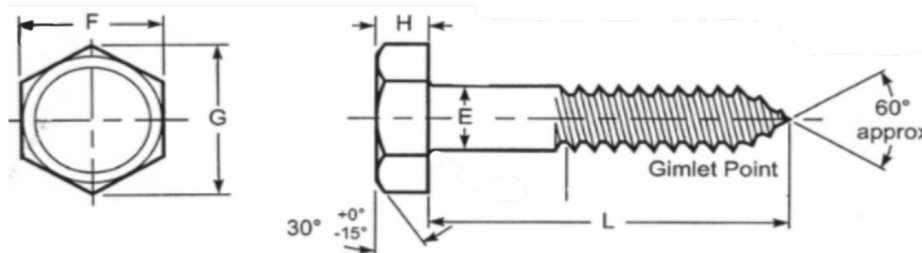


CONQUEST

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HEX HEAD LAG SCREWS

1.0 DIMENSIONS: AS PER ASME B18.2.1



Nominal Size or Basic Product Diameter	E		F			G		H		
	Body Diameter		Width Across Flats			Width Across Corners		Head Height		
	Max	Min	Basic	Max	Min	Max	Min	Basic	Max	Min
1/4	0.260	0.237	7/16	0.438	0.425	0.505	0.484	11/64	0.188	0.150
5/16	0.324	0.298	1/2	0.500	0.484	0.577	0.552	7/32	0.235	0.195
3/8	0.388	0.360	9/16	0.562	0.544	0.650	0.620	1/4	0.268	0.226
7/16	0.452	0.421	5/8	0.625	0.603	0.722	0.687	19/64	0.316	0.272
1/2	0.515	0.482	3/4	0.750	0.725	0.866	0.826	11/32	0.364	0.302
5/8	0.642	0.605	15/16	0.938	0.906	1.083	1.033	27/64	0.444	0.378
3/4	0.768	0.729	1-1/8	1.125	1.088	1.299	1.240	1/2	0.524	0.455

Notes:

- Lag screws are used in wood applications. They work like self-tapping screws in generating their own thread. A pre-drilled hole is recommended for installation.
- The thread pitches provided in the lag screws are highly coarse for quick installation.
- The minimum thread length specified is equal to one-half of the nominal screw length +0.50 inch or 6 inches whichever is shorter. Screws too short for the thread length formula shall be threaded as close to the head or shoulder as practicable.
- The standard specifies only minimum thread length for lag screws. It does not specify the minimum body length L_b minimum. Body length on a lag screw is not a controlled dimension. The manufacturers only ensure that they meet the minimum thread length specification on lag screws. Therefore lag screws cannot be termed as non-conforming based on body length dimensions.



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2.0 Mechanical Properties

No mechanical properties like hardness, proof load, tensile strength are specified for lag screws. They are required to meet only the chemical requirements of the following standards.

Steel : ASTM A307 Grade A.

Stainless Steel : ASTM F593. For 304 & 316 stainless steels.

3.0 Surface Finish: Plain/Zinc/HDG. Zinc & HDG details given in table below:

Properties	Zinc Clear	Zinc Yellow	Hot Dip Galvanized (HDG)
Type	Trivalent (Cr+3)	Hexavalent (Cr+6)	RoHS Compliant
Color	Clear	Yellow	
Minimum Coating Thickness	0.0001"/3 Microns or 0.0002"/5 Microns	0.0001"/3 Microns or 0.0002"/5 Microns.	Coating thickness for sizes 3/8 " & under : 0.0017" (43 microns) and for sizes over 3/8 " : 0.0020" (50 microns)
Specification	ASTM F1941/F1941M Fe/Zn 3AN or Fe/Zn 5AN	ASTM F1941/F1941M Fe/Zn 3C or Fe/Zn 5C	ASTM F2329/F2329M or ASTM A153/A153M

Stainless steel screws will be passivated.