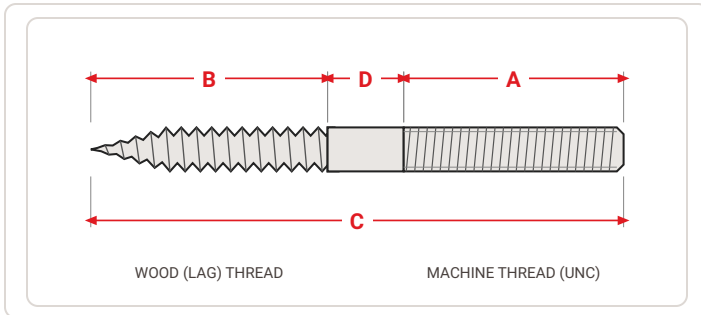




PRODUCT DATA SHEET

Hanger Bolts – Inch Series

1.0 Dimensions Industry standard thread lengths (inches)



- A lag (wood screw) thread on one end and a UNC machine thread on the other, for hanging material from wood structures.
- A = machine thread • B = wood thread
- D = unthreaded center • C = overall length
- **Machine thread:** ASME B1.1 UNC, Class 2A – 10-24, 1/4-20, 5/16-18, 3/8-16, 1/2-13.
- **Wood thread:** threaded to a tapered gimlet point; install into a pre-drilled pilot hole.

Nominal Length (C)	#10 thru 3/8"			1/2"			Sizes Stocked				
	Machine Thread (A)	Wood Thread (B)	Center (D)	Machine Thread (A)	Wood Thread (B)	Center (D)	10-24	1/4-20	5/16-18	3/8-16	1/2-13
1"	3/8	5/8	–	–	–	–	•	•			
1-1/4"	5/8	5/8	–	–	–	–	•				
1-1/2"	5/8	7/8	–	–	–	–	•	• S	•	• *	
1-3/4"	3/4	1	–	–	–	–		•			
2"	1	1	–	–	–	–	•	• S	• S	•	
2-1/4"	1	1-1/4	–	–	–	–		•			
2-1/2"	1	1-1/2	–	–	–	–	•	• S	• S	•	
3"	1-1/2	1-1/2	–	1	2	–	•	• S	• S	• S	•
3-1/2"	1-1/2	2	–	1-1/2	2	–	•	• S	• S	• S	•
4"	2	2	–	2	2	–		• S	• S	• S	• S
4-1/2"	1-1/8	3	3/8	–	–	–		•	•	•	
5"	1-3/8	3	5/8	2	3	–		• S	• S	• S	•
6"	1-1/2	3	1-1/2	2-1/2	3	1/2		• S	• S	• S *	•
8"	2-1/2	3	2-1/2	2-1/2	3	2-1/2				• S	•
10"	2-1/2	3	4-1/2	2-1/2	3	4-1/2				•	•
12"	2-1/2	3	6-1/2	2-1/2	3	6-1/2				•	•

Notes:

- **Sizes stocked:** • zinc plated steel S 18-8 stainless steel.
- * 3/8-16 exceptions: 1-1/2" long = 1/2" machine thread / 1" wood thread; 6" long = 1-1/4" machine thread / 3" wood thread / 1-3/4" center.
- Length tolerance: ±1/16" for nominal lengths up to 6"; ±1/8" over 6". Thread lengths are nominal and may vary slightly by manufacturer.
- Long 3/8" & 1/2" stainless? Metric A2 stainless hanger bolts are stocked in M10 (substitute for 3/8") and M12 (substitute for 1/2").

2.0 Material & Mechanical Properties

2.1 STEEL – ZINC PLATED

Material	Nominal Size	Core Hardness	Tensile Strength Min.
Low carbon steel AISI 1008 / 1010	#10 thru 3/8	Rockwell B80 to B100	74,000 psi (machine thread end)

Tensile strength applies to the machine thread (unified) end of the fastener only.

2.2 STAINLESS STEEL

Material	Nominal Size	Finish	Typical Use
18-8 Stainless Steel (Type 303 or 304)	1/4 thru 1/2	Plain / passivated	Outdoor, wet and corrosive locations
A2 Stainless Steel (metric)	M10 & M12	Plain / passivated	Long-length substitute for 3/8" & 1/2"

3.0 Surface Finish Zinc Plated Steel

Properties	Zinc Clear	Zinc Yellow
Type	Trivalent (Cr+3)	Hexavalent (Cr+6)
Color	Clear	Yellow
Minimum Coating Thickness	0.0001" / 3 microns or 0.0002" / 5 microns	0.0001" / 3 microns or 0.0002" / 5 microns
Specification	ASTM F1941/F1941M Fe/Zn 3AN or Fe/Zn 5AN	ASTM F1941/F1941M Fe/Zn 3C or Fe/Zn 5C

4.0 Installation

- Drill a pilot hole for the wood thread (use a smaller pilot in softwood, larger in hardwood) to the depth of the wood thread length (B).
- Drive the wood thread end with a **hanger bolt driver** (stocked for 1/4-20, 5/16-18 & 3/8-16) or two nuts jammed together on the machine thread.
- Drive until the wood thread is fully seated, then attach the fixture with a nut and washer on the machine thread end.
- **Typical uses:** furniture & table legs, suspending electrical, HVAC and sheet metal from wood framing, decks, docks and hurricane shutter mounting.



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