



PRODUCT SPECIFICATIONS

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Specification: Pilot Hole Sizes for Lag Screws

The pilot hole size as indicated in the 2005 NDS code. Always refer to the latest locally adopted NDS code for current requirements, as well as additional information governing the design and installation of standard lag screws.

Pilot hole size can range as follows:

Soft Wood

40% to 70% of the shank diameter for wood with $G \leq 0.5$.

Medium Wood

60% to 75% of the shank diameter for wood with $0.5 < G \leq 0.6$.

Hard Wood

65% to 85% of the shank diameter for wood with a specific gravity (G) > 0.6 .

Typical Pilot Hole (Drill Bit) Sizes By Lag Screw Diameter

LAG SIZE	SOFT WOOD	MEDIUM WOOD	HARD WOOD
	Groups III & IV	Group II	Group I
1/4"	3/32"	5/32"	3/16"
5/16"	9/64"	3/16"	13/64"
3/8"	11/64"	15/64"	1/4"
1/2"	15/64"	5/16"	11/32"
5/8"	5/16"	13/32"	29/64"
3/4"	13/32"	1/2"	9/16"

DISCLAIMER: THESE RESULTS ARE ULTIMATE VALUES ACHIEVED IN A LABORATORY ENVIRONMENT. ACTUAL JOBSITE CONDITIONS VARY AND CAN EFFECT RESULTS. APPROPRIATE FACTORS OF SAFETY SHOULD BE USED BY THE USER OR SPECIFIER. DETERMINING THE PROPER FASTENER IS THE RESPONSIBILITY OF THE USER OR SPECIFIER. BECAUSE APPLICATION CONDITIONS VARY AND ARE UNCONTROLLABLE BY TFC, WE ASSUME NO LIABILITY FOR THE USE OF THIS INFORMATION.