



O.E.M. Hardware

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WOOD SCREW PRE-DRILL SIZES



Standard Wood Screw Sizes and Predrilling Recommendations

Screw Size (Gauge)		#2	#3	#4	#5	#6	#7	#8	#9	#10	#12	#14	#16	#18
Head Bore Size	Actual Head Size	11/64	13/64	15/64	1/4	9/32	5/16	11/32	23/64	25/64	7/16	1/2	35/64	39/64
	Min. Counterbore Dia.	1/4	1/4	1/4	1/4	5/16	5/16	3/8	3/8	7/16	7/16	1/2	9/16	5/8
	Recommended Size	1/4	5/16	5/16	3/8	3/8	3/8	3/8	3/8	1/2	1/2	1/2	5/8	5/8
Screw Shank - Hole Size		3/32	7/64	7/64	1/8	9/64	5/32	11/64	3/16	13/64	7/32	1/4	9/32	5/16
Straight Pilot Drill Size	Hardwood	1/16	5/64	5/64	3/32	7/64	7/64	1/8	9/64	9/64	5/32	11/64	3/16	7/32
	Softwood	1/16	1/16	1/16	5/64	3/32	3/32	7/64	1/8	1/8	9/64	5/32	11/64	13/64
Tapered Pilot Drill Size	Hardwood	3/32	7/64	7/64	1/8	9/64	5/32	11/64	3/16	13/64	7/32	1/4	9/32	5/16
	Softwood	5/64	3/32	3/32	7/64	1/8	9/64	5/32	11/64	3/16	13/64	15/64	17/64	19/64
Recommended Countersink Number		C3	C4	C4	C5	C6	C7	C8	C9	C102	C12	C14	C169	C18



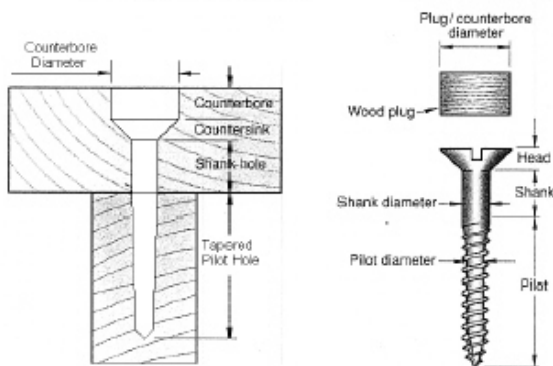
Drill Length Recommendations for Countersink/Taper Point Drill Combos

Screw Size (Gauge)		#2	#3	#4	#5	#6	#7	#8	#9	#10	#12	#14	#16	#18
Tapered Drill Size		3/32	7/64	7/64	1/8	9/64	5/32	11/64	3/16	13/64	7/32	1/4	9/32	5/16
Short Length Drill	Min. Screw Length	1/4	5/16	5/16	3/8	7/16	1/2	5/8	11/16	3/4	7/8	3/4	13/16	7/8
	Max. Screw Length *	5/8	11/16	11/16	5/8	11/16	13/16	7/8	15/16	1	1-1/8	1-1/4	1-7/16	1-9/16
Regular Length Drill	Min. Screw Length	3/8	7/16	7/16	1/2	9/16	5/8	3/4	13/16	15/16	1	1-1/8	1-1/4	1-3/8
	Max. Screw Length **	1	1-1/2	1-3/8	1-3/8	1-1/2	1-3/4	1-7/8	2-1/8	2-1/4	2-3/8	2-5/8	2-5/16	2-11/16
Long Length Drill	Min. Screw Length	9/16	9/16	9/16	5/8	11/16	3/4	7/8	15/16	1-1/16	1-1/8	1-5/16	1-7/16	1-9/16
	Max. Screw Length ***	1-3/4	2	1-7/8	2-1/8	2-3/8	2-3/8	2-3/4	2-3/4	3	3	3-1/8	3-1/16	3-3/16
8" Long Drills	Min. Screw Length	N/A	N/A	N/A	3/4	13/16	1	1-1/16	1-3/16	1-1/4	1-1/4	1-1/2	1-5/8	1-3/4
	Max. Screw Length ***	N/A	N/A	N/A	4-3/4	4-3/4	4-3/4	4-3/4	4-3/4	4-3/4	4-3/4	4-3/4	4-11/16	4-11/16

* - 1/2" to 3/4" of shank for chucking

** - 3/4" to 1" of shank for chucking

*** - Set screws positioned at end of twist



Use charts and graphs shown here to determine the correct counterbore size and pilot hole size for the wood screws you are using, correct drill lengths for Taper Point Drills and screwdriver point sizes.

Screwdriver Point Size Recommendations

Screw Size	Phillips	Square Recess
#2		
#3	#1	#0
#4		
#5		#1
#6		
#7	#2	
#8		
#9		#2
#10		
#12		
#14	#3	#3
#16		
#18		

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