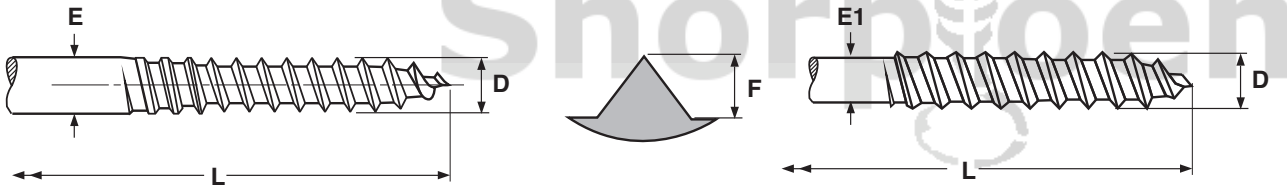
Mechanical Requirements, Thread & Body Dimensions — Wood Screws



Thread & Body Diameters for Wood Screws • Cut & Rolled Thread Types

ASME B18.6.11997

Nominal Size or Basic Screw Diameter		Threads per Inch (±10%)	D		E		E1		F
			Major Thread Diameter		Body Diameter (Cut Thread)		Body Diameter (Rolled Thread)		Thread Depth
			Max	Min	Max	Min	Max	Min	Min
2	.086	26	.090	.079	.090	.079	.075	.064	.010
3	.099	24	.103	.092	.103	.092	.086	.075	.014
4	.112	22	.116	.105	.116	.105	.095	.084	.016
5	.125	20	.129	.118	.129	.118	.107	.096	.018
6	.138	18	.142	.131	.142	.131	.118	.107	.020
7	.151	16	.155	.144	.155	.144	.127	.116	.022
8	.164	15	.168	.157	.168	.157	.136	.125	.023
9	.177	14	.181	.170	.181	.170	.147	.136	.026
10	.190	13	.194	.183	.194	.183	.157	.146	.030
12	.216	11	.220	.209	.220	.209	.176	.165	.031
14	.242	10	.246	.235	.246	.235	.201	.190	.035
16	.268	9	.272	.261	.272	.261	.214	.203	.038

Tolerance on Length	Nominal Screw Length			
	Up to 5/8 in., Incl.	Over 5/8 to 1-1/2 in., Incl.	Over 1-1/2 to 2-3/4 in., Incl.	Over 2-3/4 in.
	+0, -0.03	+0, -0.05	+0, -0.06	+0, -0.09

Description	A thread forming screw having a tapered point, and a sharp crested, coarse pitch thread. Wood screws are produced two ways: Cut thread screws have a tapered shank; Rolled thread screws have a constant shank diameter, then taper at the point.	
Applications/ Advantages	Will produce a mating thread when assembled into wood or other resilient materials.	
Material	Carbon steel	18-8 Stainless
Length of Thread	***Cut thread screws:*** Approximately two-thirds of the nominal length of the screw. ***Rolled thread screws:*** At least four times the basic screw diameter or two-thirds of the nominal screw length, whichever is greater. Screws of nominal lengths too short to accomodate the minimum thread length shall have threads extending as close to the underside of the head as practicable.	
Plating	See Appendix-A for plating information.	Stainless wood screws are usually supplied without additional finish.