

# WOOD SPECIES DRIVEABILITY CHART



WOOD SPECIES	Janka Hardness*		Density		18GA BRADS			15GA FINISH NAILS							
	pounds-force (lbf)	newtons (N)	(lb/ft <sup>3</sup> )	(kg/m <sup>3</sup> )	7/16"	5/8"	3/4"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"		
Balsa	90	390	9	150	•	•	•	•	•	•	•	•	•		
Ponderosa Pine	460	2050	28	450	•	•	•	•	•	•	•	•	•		
Poplar	540	2400	29	455	•	•	•	•	•	•	•	•	•		
Douglas Fir	620	2760	32	510	•	•	•	•	•	•	•	•	•		
Radiata Pine	710	3150	32	515	•	•	•	•	•	•	•	•	•		
Southern Yellow Pine	730	3250	34	545	•	•	•	•	•	•	•	•	•		
Loblolly Pine	690	3070	35	570	•	•	•	•	•	•	•	•	•		
Okume Marine Plywood	690	3070	35	570	•	•	•	•	•	•	•	•	•		
Black Cherry	950	4230	35	560	•	•	•	•	•	•	•	•	•		
Red Maple	950	4230	38	610	•	•	•	•	•	•	•	•	•		
Teak	1070	4740	41	655	•	•		•	•	•	•	•			
Dark Red Meranti (Mahogany)	800	3570	42	675	•			•	•	•	•	•			
Southern Red Oak	1060	4720	42	675	•			•	•	•	•				
White Ash	1320	5870	42	675	•			•	•	•	•				
Northern Red Oak	1220	5430	44	700	•			•	•	•					
Hard Maple	1450	6450	44	705	•			•	•	•					
Pecan	1820	8100	46	735	•			•	•	•					
White Oak	1350	5990	47	755	•			•	•	•					
Hickory	1880	8360	50	800	COMPOSITE FASTENERS WILL NOT DRIVE INTO HICKORY										
MDF	VARIES BETWEEN MANUFACTURERS		±48	±750	•			•	•	•					
LDF	VARIES BETWEEN MANUFACTURERS		±37	±590	•			•	•	•					

\* This number is incredibly useful in directly determining how well a wood will withstand dents, dings, and wear—as well as indirectly predicting the difficulty in nailing, screwing, sanding, or sawing a given wood species.

\* The actual number listed in the wood profile is the amount of pounds-force (lbf) or newtons (N) required to imbed a .444" (11.28 mm) diameter steel ball into the wood to half the ball's diameter. This number is given for wood that has been dried to a 12% moisture content, unless otherwise noted.