

Janka Hardness Chart — 55 Wood Species

Side hardness at ~12% moisture content · sawdustmath.com/tools/janka-hardness-chart/

SPECIES	TYPE	HARDNESS (LBF)	HARDNESS (N)
Balsa	Exotic	70	311
Paulownia	Exotic	300	1,334
Quaking Aspen	Domestic hardwood	350	1,557
Western Red Cedar	Softwood	350	1,557
Eastern White Pine	Softwood	380	1,690
American Basswood	Domestic hardwood	410	1,824
Butternut	Domestic hardwood	490	2,180
Western Hemlock	Softwood	500	2,224
Bald Cypress	Softwood	510	2,269
Yellow Poplar	Domestic hardwood	540	2,402
Red Alder	Domestic hardwood	590	2,624
Spanish Cedar	Exotic	600	2,669
Sassafras	Domestic hardwood	630	2,802
Douglas Fir	Softwood	660	2,936
Southern Yellow Pine (Loblolly)	Softwood	690	3,069
American Sycamore	Domestic hardwood	770	3,425
Honduran Mahogany	Exotic	800	3,559
American Elm	Domestic hardwood	830	3,692
Aromatic Red Cedar	Softwood	900	4,003
Paper Birch	Domestic hardwood	910	4,048
Black Cherry	Domestic hardwood	950	4,226
Soft Maple (Red)	Domestic hardwood	950	4,226
Black Walnut	Domestic hardwood	1,010	4,493
African Mahogany (Khaya)	Exotic	1,070	4,760
Teak	Exotic	1,070	4,760
Yellow Birch	Domestic hardwood	1,260	5,605
Iroko	Exotic	1,260	5,605
Northern Red Oak — the traditional flooring benchmark	Domestic hardwood	1,290	5,738
American Beech	Domestic hardwood	1,300	5,783
White Ash	Domestic hardwood	1,320	5,872
White Oak	Domestic hardwood	1,360	6,050
Bamboo (natural, flooring)	Exotic	1,380	6,139
Sapele	Exotic	1,410	6,272
Hard Maple (Sugar) — the classic workbench and cutting-board top	Domestic hardwood	1,450	6,450
Canarywood	Exotic	1,520	6,761
Honey Locust	Domestic hardwood	1,580	7,028
Black Locust	Domestic hardwood	1,700	7,562
Padauk	Exotic	1,725	7,673
Yellowheart	Exotic	1,790	7,962
Shagbark Hickory / Pecan	Domestic hardwood	1,820	8,096
Zebrawood	Exotic	1,830	8,140
Wenge	Exotic	1,930	8,585
Bocote	Exotic	2,010	8,941

SPECIES	TYPE	HARDNESS (LBF)	HARDNESS (N)
Bubinga	Exotic	2,410	10,720
East Indian Rosewood	Exotic	2,440	10,854
Purpleheart	Exotic	2,520	11,210
Osage Orange	Domestic hardwood	2,620	11,654
Jatoba (Brazilian Cherry)	Exotic	2,690	11,966
Olivewood	Exotic	2,700	12,010
Bloodwood	Exotic	2,900	12,900
Cocobolo	Exotic	2,960	13,167
Gaboon Ebony	Exotic	3,080	13,701
Cumaru	Exotic	3,330	14,813
Ipe	Exotic	3,510	15,613
Lignum Vitae — about the hardest wood in the trade	Exotic	4,500	20,017

Typical published values for clear, kiln-dried samples — individual boards vary. Compare species with these figures; don't certify a plank.