

Relative Hardness Table (Janka) for Domestic & Exotic Wood Flooring

The Janka (or side) hardness test measures the force required to embed a .444 inch steel ball to half its diameter in wood. This is one of the best measures of the ability of wood species to withstand denting and wear. It is also a good indicator of how hard a species is to saw or nail.

Species	Janka
Douglas Fir	660
So. Yellow Pine (loblolly & short leaf)	690
So. Yellow Pine (long leaf)	870
Black Cherry	950
Teak	1000
Black Walnut	1010
Bamboo (carbonized)	1180
Heart Pine	1225
Yellow Birch	1260
Red Oak (Northern)	1290
American Beech	1300
Ash	1320
White Oak	1360
Australian Cypress	1375
Bamboo (natural)	1380
Hard Maple	1450
Wenge	1630
Brazilian Oak	1650
Peruvian Maple	1700
African Pedauk	1725

Species	Janka
Hickory/Pecan	1820
Kempas	1854
Purpleheart	1860
Jarrah	1910
Merbau	1925
African Rosewood	1980
Grapia	2053
Burma Mahogany	2170
Amberwood	2200
Santos Mahogany	2200
Mesquite	2345
Brazilian Cherry	2350
Peruvian Cherry	2350
Red Walnut	2450
Camaru (Brazilian Teak)	3540
Lapacho	3670
Patagonian Rosewood	3840
Brazilian Tiger Mahogany	3840
Curupy	3880