

Janka Hardness Test

The Janka Hardness Test measures the amount of force necessary to embed a .444 inch steel ball to half it's diameter in wood. This test is not only a good indicator of how a species will resist denting and wear, but is also a good indicator of how a species will saw, nail or sand.

JANKA SCALE (pounds or pressure per square inch)	SPECIES
3692	Brazilian Ebony
3680	African Pearwood / Moabi
3680	Brazilian Walnut
3650	Bolivian Cherry
3540	Brazilian Teak
3540	Southern Chestnut
3540	Tiete Chestnut
3280	Tiete Rosewood
3190	Brazilian Redwood
3190	Caribbean Cherry
3000	Brazilian Rosewood
2900	Bloodwood
2890	Ironwood
2820	Brazilian Cherry
2800	Patagonian Rosewood
2600	African Cedar / Bosse
2345	Mesquite
2300	Caribbean Rosewood
2200	Santos Mahogany
2160	Tigerwood
2082	Jarrah
2025	Sydney Blue / Gum
1980	African Rosewood / Bubinga
1925	Merbau
1912	Amendoim
1820	Hickory / Pecan
1790	Bamboo*
1780	Bolivian Rosewood / Morado
1770	Doussie
1725	Padeuk / African Cherry
1710	Kempas
1630	Wenge
1575	Zebrawood
1570	Timborana
1543	Cameron
1500	Sapele / African Walnut
1500	Brazilian Maple
1450	Northern Hard Maple
1400	Royal Mahogany
1400	Caribbean Walnut
1375	Australian Cypress
1360	White Oak
1320	Ash
1300	American Beech
1290	Red Oak - most popular species in U.S.
1260	Yellow Birch
1240	Caribbean Heart Pine
1225	Heart Pine
1200	Larch
1125	Brazilian Eucaliptus
1080	Peruvian Walnut
1010	Black Walnut
1000	Teak
950	American Cherry
870	Southern Yellow Pine
840	South American Lacewood
830	African Mahogany
800	Mahogany
800	Honduran Mahogany
660	Douglas Fir
420	California Redwood

Most results compiled in this chart were taken from the Forest Products Laboratories Wood Handbook, Chapter 4: Mechanical Properties of Wood. Other results were obtained through Wood Flooring International

*The bamboo Janka rating varies greatly among manufacturers. The bamboo rating listed in this chart is an average of several different manufacturer's reported Janka rating for bamboo flooring