

DECKING & SIDING MATERIALS COMPARISON CHART



Specie	* Hardness lbs / sq inch	Bending Strength	Decay Resistance
Ipe' (Brazilian Walnut)	3140 lbs	25,400 lbs	Very high natural durability greater than 25 years exposed to the weather.
Massaranduba (Brazilian Redwood)	3130 lbs	29,200 lbs	Very high natural durability greater than 25 years exposed to the weather.
Tigerwood	2479 lbs	20,673 lbs	Very high natural durability greater than 25 years exposed to the weather.
Red Balau (Indonesian Mahogany)	2560 lbs	18,400 lbs	Very high natural durability greater than 25 years exposed to the weather.
Garapa	2280 lbs	12,900 lbs	Very high natural durability greater than 25 years exposed to the weather.
Cumaru (Brazilian Teak, Southern Chestnut)	2950 lbs	24,800 lbs	Very high natural durability greater than 25 years exposed to the weather.
Cambara (Brazilian Mahogany)	1560 lbs	12,700 lbs	High natural durability.
Port Orford Cedar Alaskan Yellow Cedar	780 lbs	12,700 lbs	These are the strongest of all the cedars, sliver resistant, moderately durable.
China Cedar	500 lbs	10,000 lbs	Moderately durable, studies show similar to Western Red Cedar.
Douglas Fir	710 lbs	12,400 lbs	Moderate natural durability. Typically treated to improve durability. Difficult to pressure treat.
Pressure Treated Pine	750 lbs	14,200 lbs	Not naturally durable, pressure treated to extend durability.
California Redwood	480 lbs	10,000 lbs	Moderately durable, common grade has knots & non- durable sap.
Western Red Cedar	550 lbs	8,500 lbs	Moderately durable.
Philippine Mahogany, Meranti	780 lbs	12,700 lbs	Only dark specie is durable.
Composites & Plastics	940- 1,300 lbs	1,423- 4,500 lbs	Life expectancy for composites currently undetermined. Low strength and high movement in service.

♦ **HARDNESS**—Pounds to embed 1” Steel Ball 1/4” into wood

