

Garapa Specifications

Distribution: Widely distributed throughout southern Brazil and in the Atlantic coast forests

The Tree: Well-formed tree reaching heights of 65 to 100 feet and diameters of 2 to 3 feet, occasionally up to 5 feet or more.

General Characteristics: Heartwood light to yellowish brown, becoming light brown with age, clearly demarcated from the whitish sapwood. Medium texture with marked straight or interlocked irregular grain and ribboning effect in some cut pieces; without distinctive odor or taste.

Weight: Basic specific gravity (ovendry weight/green volume) .79; air-dry density 54 pcf.

Mechanical Properties:

Moisture Content (%)	Bending Strength (PSI)	Modulus of Elasticity (1000 PSI)	Maximum Crushing Strength (PSI)
12%	17,020	2,163	9,140

Janka side hardness is approximately 1,650 lb. at 12% moisture content.

Drying and Shrinkage: Moderate to stable. Shrinkage green to ovendry: radial 4.2%; tangential 7.5%; volumetric: 11.7%

Working Properties: The wood is moderately easy to work despite its high density, rated good in all operations. It nails and screws well but pre-boring is necessary. Gluing requires special care to acquire good bond. Slicing can be difficult due to high silica content and irregular interlocked grain.

Durability: Very resistant against wood borer attacks. Moderately durable against fungi and termites.

Preservation: Does not require any preservative treatment.

Uses: Decking, docks, heavy carpentry, industrial flooring, ship building, turned goods, framing, tool handles.