

Jequitiba

Family. Lecythidaceae

Botanical Name(s).

Allantoma integrifolia

Cariniana estrellensis

Cariniana legalis

Cariniana brasiliensis (synonymous)

Cariniana p.p.

Continent. Latin America

CITES. This species is not listed in the CITES Appendices (Washington Convention 2023).

Description of logs

Diameter. From 70 to 90 cm

Thickness of sapwood. From 1 to 3 cm

Floats. Yes

Log durability. Moderate (treatment recommended)

Description of wood

Colour reference. Light brown

Sapwood. Not clearly demarcated

Texture. Fine

Grain. Straight

Interlocked grain. Absent

Notes. Heartwood light brown to pinkish brown. Possible presence of lined up traumatic canals.

Physics and mechanics

The properties indicated are for mature wood. These properties may vary significantly depending on the origin and growing conditions of the wood.

Property	Average value
Specific gravity ¹	0.64
Monnin hardness ¹	3.6
Coefficient of volumetric shrinkage	0.43 % per %
Total tangential shrinkage (St)	5.3 %
Total radial shrinkage (Sr)	5.0 %
Ratio St/Sr	1.1
Fibre saturation point	24 %
Thermal conductivity (λ)	0.22 W/(m.K)
Lower heating value	18,840 kJ/kg
Crushing strength ¹	46 MPa
Static bending strength ¹	84 MPa
Modulus of elasticity ¹	15,330 MPa

¹ At 12 % moisture content, with 1 MPa = 1 N/mm



Flat sawn

Quarter sawn



Natural durability and preservation

Resistance to fungi. Class 3 - moderately durable

Resistance to dry wood borers. Class S - susceptible (risk in all the wood)

Resistance to termites. Class D - durable

Treatability. Class 3 - poorly permeable

Use class ensured by natural durability.

Class 2 - inside or under cover (dampness possible)

Requirement of a preservative treatment

Against dry wood borer. Requires appropriate preservative treatment

In case of temporary humidification. Requires appropriate preservative treatment

In case of permanent humidification. Use not recommended

Drying

Drying rate. Normal to slow

Risk of distortion. Slight risk

Risk of casehardening. No known specific risk

Risk of checking. Slight risk

Risk of collapse. No known specific risk

Notes. Drying requires care in order to reduce defects.

Suggested drying program.

Phases	Duration (H)	MC (%) probes	T (°C)	Rh (%)	UGL (%)
Prewarm 1		> 50	50	87	17.0
Prewarm 2	4	> 50	50	86	16.5
Drying		> 50	53	83	15.2
		50 - 40	53	80.0	14.1
		40 - 35	54	80.0	13.9
		35 - 30	55	75.0	12.5
		30 - 27	57	70.0	11.0
		27 - 24	58	61.0	9.4
		24 - 21	59	51.0	7.9
		21 - 18	60	47.0	7.3
		18 - 15	61	39.0	6.1
		15 - 12	62	35.0	5.6
		12 - 9	62	30.0	5.0
		9 - 6	62	26.0	4.4
Conditioning	8		55	(3)	(2)
Cooling	(1)		Stop	(3)	(2)

(1)) Cooling: until the temperature inside the kiln no longer exceeds external temperature by more than 30 °C.

(2) UGL = final H% x 0,8 to 0,9.

(3) Subtract RH from the UGL determined in (2) and temperature, using the Hailwood-Horrobin equation.

Sawing and machining

Blunting effect. Fairly high

Sawteeth recommended. Stellite-tipped

Cutting tools. Tungsten carbide

Peeling. Good

Slicing. Good

Notes. Blunting effect normal or quite high due to silica content. Tendency to woolliness.

Assembling

Nailing and screwing. Good but pre-boring necessary

Notes. Tends to split when nailing.

Commercial grading

Appearance grading for sawn timbers.

According to ATIBT grading rules, possible grade: FAS (First And Second), n°1 Common and select, n°2 Common

Visual grading for structural applications

No visual grading for structural applications

Fire safety

Conventional French grading.

Thickness > 14 mm: M3 (moderately inflammable)

Thickness < 14 mm: M4 (easily inflammable)

Euroclasses grading. D-s2, d0

Default grading for solid wood, according to requirements of European standard EN 14081-1+A1 (August 2019).

It concerns structural graded timber in vertical uses and ceiling with mean density upper 0.35 and thickness upper 22 mm.

End-uses

- Cabinetwork (high class furniture)
- Current furniture or furniture components
- Exterior joinery
- Flooring
- Formwork
- Glued laminated
- Interior joinery
- Interior panelling
- Moulding
- Sliced veneer
- Turned goods
- Veneer for back or face of plywood
- Veneer for interior of plywood

Main local names

Country	Local name
Bolivia	Yesquero
Brazil	Estopeiro
Brazil	Jequitiba
Brazil	Jequitiba branco
Brazil	Jequitiba rosa
Brazil	Jequitiba vermelho