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Family: LECYTHIDACEAE (angiosperm)

Scientific name(s): Cariniana brasiliensis (synonymous)

Cariniana estrellensis

Cariniana integrifolia (synonymous)

Cariniana legalis Allantoma integrifolia

Commercial restriction: no commercial restriction

### WOOD DESCRIPTION

### LOG DESCRIPTION

Color: light brown Diameter: from 70 to 90 cm
Sapwood: not clearly demarcated Thickness of sapwood: from 1 to 3 cm

Texture: fine Floats: yes

Grain: straight Log durability: moderate (treatment recommended)

Interlocked grain: absent

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

#### PHYSICAL PROPERTIES

#### MECHANICAL AND ACOUSTIC PROPERTIES

Physical and mechanical properties are based on mature heartwood specimens. These properties can vary greatly depending on origin and growth conditions.

	<u>Mean</u>	Std dev.		<u>Mean</u>	Std dev.
Specific gravity *:	0,64	0,05	Crushing strength *:	46 MPa	5 MPa
Monnin hardness *:	3,6	0,8	Static bending strength *:	84 MPa	9 MPa
Coeff. of volumetric shrinkage:	0,43 %	0,02 %	Modulus of elasticity *:	15330 MPa	755 MPa
Total tangential shrinkage (TS):	5,3 %	0,8 %			
Total radial shrinkage (RS):	5,0 %	0,3 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm <sup>2</sup> )		
TS/RS ratio:	1,1				
Fiber saturation point:	24 %				
Stability: stable					

#### NATURAL DURABILITY AND TREATABILITY

Fungi and termite resistance refers to end-uses under temperate climate. Except for special comments on sapwood, natural durability is based on mature heartwood. Sapwood must always be considered as non-durable against wood degrading agents.

E.N. = Euro Norm

Funghi (according to E.N. standards): class 3 - moderately durable

Dry wood borers: susceptible - sapwood not or slightly demarcated (risk in all the wood)

Termites (according to E.N. standards): class D - durable

Treatability (according to E.N. standards): class 3 - poorly permeable

Use class ensured by natural durability: class 2 - inside or under cover (dampness possible)

Species covering the use class 5: No

## REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: requires appropriate preservative treatment In case of risk of temporary humidification: requires appropriate preservative treatment

In case of risk of permanent humidification: use not recommended

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#### **DRYING**

Drying rate: normal to slow Possible drying schedule: 3

Risk of distortion: slight risk

Temperature (°C)

wet-bulb Risk of casehardening: no M.C. (%) dry-bulb Air humidity (%) Risk of checking: slight risk Green 60 56 81 30 68 58 61 Risk of collapse: no 20 74 51 60 Note: Drying requires care in order to reduce defects. 15 മറ 61 41

This schedule is given for information only and is applicable to thickness lower or equal to 38 mm.

It must be used in compliance with the code of practice.

For thickness from 38 to 75 mm, the air relative humidity should be increased by 5 % at each step.

For thickness over 75 mm, a 10 % increase should be considered.

#### **SAWING AND MACHINING**

Blunting effect: fairly high
Sawteeth recommended: stellite-tipped
Cutting tools: tungsten carbide

Peeling: good Slicing: nood

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

#### **ASSEMBLING**

Nailing / screwing: good but pre-boring necessary

Gluing: correct

Note: Tends to split when nailing.

## **COMMERCIAL GRADING**

Appearance grading for sawn timbers: According to NHLA grading rules (January 2007)

Possible grading: FAS, Select, Common 1, Common 2, Common 3

#### **FIRE SAFETY**

Conventional French grading: Thickness > 14 mm : M.3 (moderately inflammable)

Thickness < 14 mm : M.4 (easily inflammable)

Euroclasses grading: D s2 d0

Default grading for solid wood, according to requirements of European standard EN 14081-1 annex C (April

2009). It concerns structural graded timber in vertical uses with mean density upper 0.35 and thickness upper

22 mm

# **END-USES**

Veneer for interior of plywood

Glued laminated

Cabinetwork (high class furniture)

Interior joinery Formwork Moulding Sliced veneer Veneer for back or face of plywood Current furniture or furniture components

Exterior joinery Flooring Interior panelling Turned goods JEQUITIBA Page 3/4

# **MAIN LOCAL NAMES**

Local name Local name Country Country Bolivia YESQUERO **ESTOPEIRO** Brazil Brazil JEQUITIBA Brazil JEQUITIBA BRANCO Brazil JEQUITIBA ROSA Brazil JEQUITIBA VERMELHO



