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Family: LECYTHIDACEAE (angiosperm)

Scientific name(s): Cariniana pyriformis Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: brown Diameter: from 80 to 120 cm
Sapwood: clearly demarcated Thickness of sapwood: from 5 to 7 cm

Texture: medium Floats: yes

Grain: straight or interlocked Log durability: moderate (treatment recommended)

Interlocked grain: slight

Note: Heartwood pink brown slightly purplish. Sometimes presence of 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.	Mean Std dev.
Specific gravity *:	0,68	0,03	Crushing strength *: 61 MPa 3 MPa
Monnin hardness *:	4,5	0,6	Static bending strength *: 113 MPa 7 MPa
Coeff. of volumetric shrinkage:	0,49 %	0,06 %	Modulus of elasticity *: 13720 MPa 1004 MPa
Total tangential shrinkage (TS):	6,6 %	0,5 %	
Total radial shrinkage (RS):	4,8 %	0,4 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)
TS/RS ratio:	1,4		
Fiber saturation point:	29 %		Musical quality factor: 121,4 measured at 2594 Hz
Stability:	moderately 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: durable - sapwood demarcated (risk limited to sapwood)

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: does not require any 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: Sometimes high risks of distortion and checking. 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: high

Sawteeth recommended: stellite-tipped Cutting tools: tungsten carbide

Peeling: good Slicing: nood

Note: Fairly difficult to saw because of its silica content.

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

Exterior joinery
Cabinetwork (high class furniture)
Veneer for back or face of plywood
Light carpentry

Interior joinery
Interior panelling
Sliced veneer
Glued laminated

Wood frame house Ship building (planking and deck)
Flooring Current furniture or furniture components

Turned goods

Note: Substitute for MAHOGANY (Swietenia spp.) and AFRICAN MAHOGANY (Khaya spp.). Filling is required to obtain a good finish.

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MAIN LOCAL NAMES

CountryLocal nameCountryColombiaABARCOVenezuela

Local name BACU



