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Family: FABACEAE-MIMOSOIDEAE (angiosperm)

Scientific name(s): Enterolobium contortisiliquum

Enterolobium cyclocarpum Enterolobium maximum

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: brown Diameter: from 60 to 100 cm Sapwood: clearly demarcated Thickness of sapwood: from 3 to 6 cm

Texture: coarse Floats: yes

Grain: straight or interlocked Log durability: low (must be treated)

Interlocked grain: slight

Note: Heartwood light brown to brown. Possible presence of tension wood in E. cyclocarpum.

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 *:	0,49	0,05	Crushing strength *: 40 MPa 7 MPa
Monnin hardness *:	2,1	0,6	Static bending strength *: 63 MPa 9 MPa
Coeff. of volumetric shrinkage:	0,35 %	0,05 %	Modulus of elasticity *: 9650 MPa 1230 MPa
Total tangential shrinkage (TS):	4,5 %	0,8 %	
Total radial shrinkage (RS):	2,3 %	0,4 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)
TS/RS ratio:	2,0		
Fiber saturation point:	24 %		

Stability: moderately stable to 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 5 - not durable

Dry wood borers: durable - sapwood demarcated (risk limited to sapwood)

Termites (according to E.N. standards): class S - susceptible

Treatability (according to E.N. standards): class 1 - easily permeable

Use class ensured by natural durability: class 1 - inside (no dampness)

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: rapid

Possible drying schedule: 3

Risk of distortion: no risk or very slight risk

Risk of casehardening: no

Risk of checking: no risk or very slight risk

Risk of collapse: no

Temperature (°C)							
	M.C. (%)	dry-bulb	wet-bulb	Air humidity (%)			
	Green	60	56	81			
	30	68	58	61			
	20	74	60	51			
	15	80	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: normal

Sawteeth recommended: ordinary or alloy steel

Cutting tools: ordinary
Peeling: good
Slicing: nood

Note: Sometimes fuzzy surface and irritant sawdust for the species E. cyclocarpum.

ASSEMBLING

Nailing / screwing: good
Gluing: correct

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

Sliced veneer

Interior panelling Light carpentry

Veneer for back or face of plywood

Exterior panelling Open boats

Interior joinery

Current furniture or furniture components

Boxes and crates Blockboard Matches TAMBORIL Page 3/4

MAIN LOCAL NAMES

Country Country Local name Local name Argentina CAMBA-CAMBY Argentina OREJA DE NEGRO Argentina PARA Argentina TIMBO Argentina TIMBO COLORADO Brazil TAMBORIL Brazil Brazil TIMBAUVA TIMBO Colombia CARITO Colombia OREJERO TIMBO COLORADO Paraguay TIMBO Paraguay Venezuela CARO-CARO

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