CEREJEIRA Page 1 of 4

Family: FABACEAE (angiosperm)

Scientific name(s): Amburana cearensis

Torresea cearensis (synonymous)

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: yellow brown Diameter: from 50 to 90 cm
Sapwood: not clearly demarcated Thickness of sapwood: from 5 to 8 cm

Texture: coarse Floats: yes

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

Interlocked grain: slight

Note: Scent similar to vanilla. Wood sometimes veined

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 *:	0,59	0,06	Crushing strength *:	45 MPa	5 MPa
Monnin hardness *:	2,7	0,7	Static bending strength *:	73 MPa	10 MPa
Coeff. of volumetric shrinkage:	0,41 %	0,04 %	Modulus of elasticity *:	10980 MPa	1314 MPa
Total tangential shrinkage (TS):	4,5 %	0,7 %			
Total radial shrinkage (RS):	2,4 %	0,4 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)		
TS/RS ratio:	1,9				
Fiber saturation point:	19 %		Musical quality factor:	121,3 measure	d at 2556 Hz
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 M - moderately durable Treatability (according to E.N. standards): class 2 - moderately permeable

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

Species covering the use class 5: No

Note: This species is listed in the European standard NF EN 350-2.

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: slow Possible drying schedule: 3

Risk of distortion: slight risk

Temperature (°C) wet-bulb Risk of casehardening: yes 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 60 51 Note: Tendency Important to distortion. risks 15 മറ

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

casehardening for thickness > 50mm.

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

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

61

41

22 mm.

END-USES

Current furniture or furniture components

Veneer for back or face of plywood

Interior joinery

Sculpture

Exterior joinery Light carpentry

Cooperage

Note: Filling is recommended.

Blockboard Sliced veneer Moulding

Cabinetwork (high class furniture)

Interior panelling Wood frame house CEREJEIRA Page 3/4

MAIN LOCAL NAMES

Country Local name Country Local name Argentina PALO TREBOL Argentina ROBLE DEL PAIS Bolivia SORYOKO Brazil AMBURANA Brazil CUMARU DE CHEIRO CEREJEIRA Brazil Brazil **IMBURANA** Peru ISHPINGO

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