IMBUIA

Family: LAURACEAE (angiosperm) Scientific name(s): Ocotea porosa

Phoebe porosa (synonymous)

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

Color: yellow brown Sapwood: clearly demarcated Texture: fine

Grain: straight or interlocked

Interlocked grain: slight

Note: Heartwood yellow brown to dark brown with irregular thin darker veins. Pleasant scent.

PHYSICAL PROPERTIES

MECHANICAL AND ACOUSTIC PROPERTIES

Diameter: from 80 to 120 cm

3 to

Log durability: moderate (treatment recommended)

6 cm

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

LOG DESCRIPTION

Thickness of sapwood: from

Floats: yes

	Mean	Std dev.		Mean	Std dev.
Specific gravity *:	0,71	0,08	Crushing strength *:	49 MPa	5 MPa
Monnin hardness *:	4,9	1,2	Static bending strength *:	84 MPa	11 MPa
Coeff. of volumetric shrinkage:	0,45 %	0,06 %	Modulus of elasticity *:	9260 MPa	145 MPa
Total tangential shrinkage (TS):	6,8 %	0,9 %			
Total radial shrinkage (RS):	3,3 %	0,6 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm ²)		
TS/RS ratio:	2,1				
Fiber saturation point:	25 %				
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: durable - sapwood demarcated (risk limited to sapwood)
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

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: slow	Possible drying schedule: 3				
Risk of distortion: slight risk		Temperature (°C)			
Risk of casehardening: no	M.C. (%)	dry-bulb	wet-bulb	Air humidity (%)	
Risk of checking: slight risk	Green	60	56	81	
Risk of collapse: yes	30	68	58	61	
Note: Slow drying recommended	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: Sawdust may cause dermatosis.

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 Cabinetwork (high class furniture) Flooring Veneer for back or face of plywood Light carpentry Turned goods Ship building (planking and deck) Exterior panelling Current furniture or furniture components Interior panelling Interior joinery Moulding Wood frame house Stairs (inside) Exterior joinery

Note: Used as a substitute for the European WALNUT (Juglans regia). Recommended for high class end-uses.

MAIN LOCAL NAMES

<u>Country</u> Brazil (South) Brazil (South) United States of America Local name CANELA IMBUIA IMBUIA BRAZILIAN WALNUT <u>Country</u> Brazil (South) United Kingdom <u>Local name</u> EMBUIA BRAZILIAN WALNUT

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