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Family: GOUPIACEAE (angiosperm)

Scientific name(s): Goupia glabra

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: yellow brown Diameter: from 60 to 100 cm
Sapwood: clearly demarcated Thickness of sapwood: from 3 to 8 cm

Texture: medium Floats: no

Grain: interlocked Log durability: moderate (treatment recommended)

Interlocked grain: marked but not frequent

Note: Unpleasant odour. Sometimes, presence of internal stresses.

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 *:	0,84	0,03	Crushing strength *: 62 MPa 11 MPa
Monnin hardness *:	6,2	1,8	Static bending strength *: 110 MPa 16 MPa
Coeff. of volumetric shrinkage:	0,66 %	0,08 %	Modulus of elasticity *: 18190 MPa 2939 MPa
Total tangential shrinkage (TS):	8,8 %	0,9 %	
Total radial shrinkage (RS):	5,1 %	0,9 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)
TS/RS ratio:	1,7		
Fiber saturation point:	26 %		Musical quality factor: 102 measured at 2642 Hz
Stability: poorly 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.

F.N. = Furo 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 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: Resistance to brown cubical rot: good to very good. Resistance to white rot: moderate.

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: 6

Risk of distortion: high risk

Temperature (°C) wet-bulb Risk of casehardening: yes M.C. (%) dry-bulb Air humidity (%) Risk of checking: high risk Green 42 41 94 50 48 43 74 Risk of collapse: no 30 54 46 63 Note: Drying must be done slowly. 20 60 51 62 15 60 51 62

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: not recommended or without interest

Slicing: nood

Note: A careful sanding is necessary due to interlocked grain.

ASSEMBLING

Nailing / screwing: good but pre-boring necessary

Gluing: correct (for interior only)

Note: Pre-boring recommended to avoid splits

COMMERCIAL GRADING

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

Possible grading: FAS, Select, Common 1, Common 2, Common 4

In French Guiana, the local name of this species is "GOUPI". Grading is done according to local rules "Bois

guyanais classés'

Possible grading: Choix 1, choix 2, choix 3, choix 4

Visual grading for structural applications: Traded timber with CE marking. Possible strength class: D40 related to the European standard EN 14081 (May

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

Industrial or heavy flooring

Heavy carpentry Current furniture or furniture components

Sliced veneer Exterior joinery Stairs (inside) Exterior panelling Wood frame house Turned goods

Note: The unpleasant odour may limit the use of this timber. For furniture end-uses, filling and varnishing are necessary.

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MAIN LOCAL NAMES

Country Country Local name Local name COPIUVA Brazil CACHACEIRO Brazil Brazil CUPIUBA Colombia CHAQUIRO SAPINO Colombia SAINO Colombia Guyana COPI Guyana KABUKALLI French Guiana GOUPI Peru CAPRICORNIA Suriname KOEPI Venezuela CONGRIO BLANCO United Kingdom KABUKALLI



