

Kabukalli

Family. Goupiaceae

Botanical Name(s).

Goupia glabra

Continent. Latin America

CITES. This species is not listed in the CITES Appendices (Washington Convention 2023).

Description of logs

Diameter. From 60 to 100 cm

Thickness of sapwood. From 3 to 8 cm

Floats. No

Log durability. Moderate (treatment recommended)

Description of wood

Colour reference. Yellow brown

Sapwood. Clearly demarcated

Texture. Medium

Grain. Interlocked

Interlocked grain. Marked but not frequent

Notes. Unpleasant odour. Sometimes, presence of internal stresses.

Physics and mechanics

The properties indicated are for mature wood. These properties may vary significantly depending on the origin and growing conditions of the wood.

Property	Average value
Specific gravity ¹	0.84
Monnin hardness ¹	6.2
Coefficient of volumetric shrinkage	0.66 % per %
Total tangential shrinkage (St)	8.8 %
Total radial shrinkage (Sr)	5.1 %
Ratio St/Sr	1.7
Fibre saturation point	26 %
Thermal conductivity (λ)	0.27 W/(m.K)
Lower heating value	19,260 kJ/kg
Crushing strength ¹	62 MPa
Static bending strength ¹	110 MPa
Modulus of elasticity ¹	18,190 MPa

¹ At 12 % moisture content, with 1 MPa = 1 N/mm

Natural durability and preservation

Resistance to fungi. Class 3 - moderately durable



Flat sawn



Half-quarter sawn

Resistance to dry wood borers. Class D - durable (sapwood demarcated, risk limited to sapwood)

Resistance to termites. Class D - durable

Treatability. Class 2 - moderately permeable

Use class ensured by natural durability.

Class 2 - inside or under cover (dampness possible)

Notes. This species is listed in the European standard NF EN 350 (2016). Resistance to brown cubical rot: good to very good. Resistance to white rot: moderate.

Requirement of a preservative treatment

Against dry wood borer. Does not require any preservative treatment

In case of temporary humidification. Requires appropriate preservative treatment

In case of permanent humidification. Use not recommended

Drying

Drying rate. Slow

Risk of distorsion. High risk

Risk of casehardening. Yes

Risk of checking. High risk

Risk of collapse. No known specific risk

Notes. Drying must be done slowly.

Suggested drying program.

Phases	Duration (H)	MC (%) probes	T (°C)	Rh (%)	UGL (%)
Prewarm 1		> 50	50	87	17.0
Prewarm 2	4	> 50	50	86	16.5
Drying		> 50	53	85	15.7
		50 - 40	53	82.0	14.6
		40 - 35	54	78.0	13.4
		35 - 30	55	77.0	12.9
		30 - 27	57	73.0	11.9
		27 - 24	58	68.0	10.7
		24 - 21	60	61.0	9.3
		21 - 18	62	52.0	7.9
		18 - 15	64	43.0	6.6
		15 - 12	65	39.0	6.0
		12 - 9	65	31.0	5.0
		9 - 6	65	28.0	4.5
Conditioning	8		58	(3)	(2)
Cooling	(1)		Stop	(3)	(2)

(1)) Cooling: until the temperature inside the kiln no longer exceeds external temperature by more than 30 °C.

(2) UGL = final H% x 0,8 to 0,9.

(3) Subtract RH from the UGL determined in (2) and temperature, using the Hailwood-Horrobin equation.

Sawing and machining

Blunting effect. Fairly high

Sawteeth recommended. Stellite-tipped

Cutting tools. Tungsten carbide

Peeling. Not recommended or without interest

Slicing. Good

Notes. A careful sanding is necessary due to interlocked grain.

Assembling

Nailing and screwing. Good but pre-boring necessary

Notes. Pre-boring recommended to avoid splits. High specific gravity: gluing must be especially performed in compliance with the code of practice.

Commercial grading

Appearance grading for sawn timbers.

According to NHLA grading rules (2015) Possible grading: FAS, Select, Common 1, Common 2, Common 3 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

According to French standard NF B 52-001-1 (2018), strength class D40 can be provided by visual grading for Cupiuba in French Guiana.

Fire safety

Conventional French grading.

Thickness > 14 mm: M3 (moderately inflammable)

Thickness < 14 mm: M4 (easily inflammable)

Euroclasses grading. D-s2, d0

Default grading for solid wood, according to requirements of European standard EN 14081-1+A1 (August 2019). It concerns structural graded timber in vertical uses and ceiling with mean density upper 0.35 and thickness upper 22 mm.

End-uses

- Current furniture or furniture components
- Exterior joinery
- Exterior panelling
- Flooring
- Heavy carpentry
- Indoor staircases
- Industrial or heavy flooring
- Sliced veneer
- Turned goods
- Wood frame house

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



'Maison de la nature' (Goupi) – Copeaux and Co, Sinnamary (French Guiana).
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Main local names

Country	Local name
Brazil	Cachaceiro
Brazil	Copiuva
Brazil	Cupiuba
Colombia	Chaquiro
Colombia	Saino
Colombia	Sapino
French Guiana	Goupi
Guyana	Copi
Guyana	Kabukalli
Peru	Capricornia
Suriname	Koepi
United Kingdom (importated tropical timber)	Kabukalli
Venezuela	Congrio blanco