Family: CARYOCARACEAE (angiosperm)

Scientific name(s): Caryocar glabrum

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

Color: yellow brown

Sapwood: not clearly demarcated

Texture: coarse

Grain: interlocked

Interlocked grain: marked

Note: Wood yellow brown to light brown. Presence of internal stresses.

PHYSICAL PROPERTIES

MECHANICAL AND ACOUSTIC PROPERTIES

Diameter: from 60 to 100 cm

3 to

Log durability: moderate (treatment recommended)

5 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: no

	Mean	Std dev.		Mean	Std dev.
Specific gravity *:	0,80	0,06	Crushing strength *:	64 MPa	6 MPa
Monnin hardness *:	5,0	1,3	Static bending strength *:	109 MPa	15 MPa
Coeff. of volumetric shrinkage:	0,58 %	0,11 %	Modulus of elasticity *:	17640 MPa	2230 MPa
Total tangential shrinkage (TS):	9,6 %	0,5 %			
Total radial shrinkage (RS):	5,2 %	1,0 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm ²)		
TS/RS ratio:	1,8				
Fiber saturation point:	29 %		Musical quality factor:	95,2 measured	at 2556 Hz
Stability: po	orly 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 2 - durable
Dry wood borers:	susceptible - sapwood not or slightly demarcated (risk in all the wood)
Termites (according to E.N. standards):	class D - durable
Treatability (according to E.N. standards):	class 3 - poorly permeable
Use class ensured by natural durability:	class 3 - not in ground contact, outside
Species covering the use class 5:	No
Note:	Wood not resistant to some cubical rot fungi under tropical climate. According to the European standard NF EN 335, performance length might be modified by the intensity of end-use exposition.

REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: requires appropriate preservative treatment In case of risk of temporary humidification: does not require any preservative treatment

In case of risk of permanent humidification: use not recommended

DRYING

Drying rate:	slow	Possible drying schedule: 4			
Risk of distortion:	high risk	Temperature (°C)			
Risk of casehardening:	yes	M.C. (%)	dry-bulb	wet-bulb	Air humidity (%)
Risk of checking:	high risk	Green	42	39	82
Risk of collapse:	no	50	48	43	74
	The wood must be dried carefully and slowly in order to reduce defects.	40	48	43	74
		30	48	43	74
		15	54	46	63

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: not recommended or without interest

Slicing: not recommended or without interest

Note: Sawing and machining require sharp tools in order to avoid a fuzzy surface due to interlocked grain.

ASSEMBLING

Nailing / screwing: good but pre-boring necessary

Gluing: poor

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 "CHAWARI". Grading is done according to local rules "Bois guyanais classés". Possible grading: Choix 1, choix 2, choix 3, choix 4

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

Heavy carpentry Exterior panelling Vehicle or container flooring Wood frame house Cooperage Industrial or heavy flooring Current furniture or furniture components Ship building (planking and deck) Tool handles (resilient woods)

MAIN LOCAL NAMES

<u>Country</u>
Bolivia
Brazil
Brazil
Brazil
Guyana
French Guiana
Peru
Suriname

Local name BIQUI PEQUI PIQUIA BRAVO PIQUIA ROXO SAWARI KASSAGNAN ALMENDRO SOPO OEDOE

Bolivia Brazil Brazil Colombia French Guiana Peru Suriname Venezuela

<u>Country</u>

Local name HUEVO DE BURRO PIQUIA PIQUIARANA ALMENDRON CHAWARI ALMENDRA CON ESPINAS SAWARI ALMENDRA



