

Family: EUPHORBIACEAE (angiosperm)

Scientific name(s): Hura crepitans

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

Color: creamy white
Sapwood: not clearly demarcated
Texture: coarse
Grain: straight or interlocked
Interlocked grain: slight

Note: Bark contains a very irritant sap.

Color varies from cream white to pinkish brown. Presence of tension wood.

LOG DESCRIPTION

Diameter: from 70 to 100 cm
Thickness of sapwood: from 15 to 25 cm
Floats: yes
Log durability: low (must be treated)

PHYSICAL 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>	<u>Std dev.</u>
Specific gravity *:	0,45	0,08
Monnin hardness *:	1,5	0,7
Coeff. of volumetric shrinkage:	0,37 %	0,05 %
Total tangential shrinkage (TS):	4,7 %	0,3 %
Total radial shrinkage (RS):	2,9 %	0,5 %
TS/RS ratio:	1,6	
Fiber saturation point:	27 %	
Stability: stable		

MECHANICAL AND ACOUSTIC PROPERTIES

	<u>Mean</u>	<u>Std dev.</u>
Crushing strength *:	31 MPa	7 MPa
Static bending strength *:	56 MPa	9 MPa
Modulus of elasticity *:	9600 MPa	1288 MPa

(*: at 12% moisture content, with 1 MPa = 1 N/mm²)

Musical quality factor: 116,8 measured at 2651 Hz

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 5 - not durable

Dry wood borers: susceptible - sapwood not or slightly demarcated (risk in all the wood)

Termites (according to E.N. standards): class S - susceptible

Treatability (according to E.N. standards): class 1 - easily permeable

Use class ensured by natural durability: class 1 - inside (no dampness)

Species covering the use class 5: No

Note: Very prone to blue stain.

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

DRYING

Drying rate: normal to slow

Risk of distortion: high risk

Risk of casehardening: no

Risk of checking: high risk

Risk of collapse: no

Note: Slow drying is recommended (in that case, wood must be treated against blue stain) to reduce defects.

Possible drying schedule: 3

M.C. (%)	Temperature (°C)		Air humidity (%)
	dry-bulb	wet-bulb	
Green	60	56	81
30	68	58	61
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: fairly high

Sawteeth recommended: stellite-tipped

Cutting tools: tungsten carbide

Peeling: good

Slicing: not recommended or without interest

Note: Log turning sawing recommended to avoid shakes (tension wood). Fuzzy surface. Silica content is variable according to the country of origin.

ASSEMBLING

Nailing / screwing: poor

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

Floats

Interior joinery

Current furniture or furniture components

Veneer for interior of plywood

Matches

Wood-ware

Boxes and crates

Formwork

Blockboard

Fiber or particle boards

Model building

Note: Possible substitute for OBECHÉ (Triplachiton scleroxylon). A careful sanding and a filling are recommended to obtain a good finish.

MAIN LOCAL NAMES

<u>Country</u>	<u>Local name</u>	<u>Country</u>	<u>Local name</u>
Bolivia	OCHOHO	Brazil	AÇACU
Brazil	ASSACU	Colombia	CEIBA LECHOSA
Ecuador	HABILLO	Guyana	SANDBOX
French Guiana	BOIS DU DIABLE	French Guiana	SABLIER
Peru	CATAHUA	Suriname	POSSENTRIE
Suriname	POSSUM	Suriname	URA WOOD
Venezuela	CEIBA HABILLO	Venezuela	JABILLO
United States of America	POSSUMWOOD		

