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Family: MYRISTICACEAE (angiosperm)

Scientific name(s): Virola spp.

Commercial restriction: no commercial restriction

#### WOOD DESCRIPTION

# LOG DESCRIPTION

Color: light brown Diameter: from 50 to 90 cm

Sapwood: not demarcated Thickness of sapwood:

Texture: medium Floats: yes

Grain: straight Log durability: low (must be treated)

Interlocked grain: absent

Note: Logs must be sawn, stored under water or treated right after felling (low durability).

#### 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 *:	0,52	0,07	Crushing strength *: 37 MPa 7 MPa
Monnin hardness *:	1,4	0,6	Static bending strength *: 65 MPa 14 MPa
Coeff. of volumetric shrinkage:	0,58 %	0,17 %	Modulus of elasticity *: 12430 MPa 2691 MPa
Total tangential shrinkage (TS):	9,5 %	1,3 %	
Total radial shrinkage (RS):	5,6 %	1,3 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)
TS/RS ratio:	1,7		
Fiber saturation point:	34 %		Musical quality factor: 84,8 measured at 3133 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.

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 1-2 - moderately to easily permeable

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

Species covering the use class 5: No

Note: This species is listed in the European standard NF EN 350-2.

# 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

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#### **DRYING**

Drying rate: normal to slow Possible drying schedule: 2

Risk of distortion: high risk Temperature (°C) Risk of casehardening: no M.C. (%) wet-bulb Air humidity (%) dry-bulb Risk of checking: high risk Green 50 47 84 40 50 45 75 Risk of collapse: yes 30 47 55 67 Note: Kiln drying must be handled carefully and slowly in 20 70 55 47 order to reduce defects, especially with thick material. 15 75 58 44

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: Sometimes fuzzy surface.

#### **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 4

In French Guiana, the local name of this species is "YAYAMADOU". 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**

Veneer for interior of plywood Veneer for back or face of plywood

Moulding Current furniture or furniture components
Boxes and crates Formwork

Shingles Wood-ware
Light carpentry Matches
Interior joinery Interior panelling
Glued laminated Fiber or particle boards

Blockboard Sliced veneer Cigar boxes Pulp

Note: Substitute for OKOUME (Aucoumea klaineana) or ILOMBA (Pycnanthus angolensis) for plywood.

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## **MAIN LOCAL NAMES**

Country Local name Country Local name Brazil UCUUBA Brazil VIROLA Colombia Colombia SEBO NUANAMO Ecuador CHALIVIANDE Ecuador SHEMPO Guyana French Guiana MOULOMBA DALLI

French Guiana YAYAMADOU French Guiana YAYAMADOU MARECAGE

French Guiana YAYAMADOU MONTAGNE Honduras BANAK Peru **CUMALA** Suriname **BABOEN** Suriname Trinidad and Tobago **PINTRI** CAJUEA CAMATICARO Venezuela Venezuela CUAJO OTIVO SANGRINO Venezuela Venezuela Venezuela VIROLA United Kingdom DALLI



