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Family: EUPHORBIACEAE (angiosperm)

Scientific name(s): Endospermum malaccense

Endospermum medullosum Endospermum peltatum

Commercial restriction: no commercial restriction

#### WOOD DESCRIPTION

### LOG DESCRIPTION

Color: creamy white Diameter: from 65 to 90 cm

Sapwood: not demarcated Thickness of sapwood: Floats: yes Texture: coarse

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

Interlocked grain: slight

Note: Possible brittleheart.

Presence of tension wood in some logs. Grain sometimes wavy. Lustrous surface.

# 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

Std dev. Std dev. Mean Mean Specific gravity \*: Crushing strength \*: 0.45 40 MPa Monnin hardness \*: 1,4 Static bending strength \*: 60 MPa Coeff. of volumetric shrinkage: Modulus of elasticity \*: 11280 MPa 0.35 % Total tangential shrinkage (TS): 4,3 % Total radial shrinkage (RS): 2.5 % (\*: at 12% moisture content, with 1 MPa = 1 N/mm<sup>2</sup>) TS/RS ratio: 1.7 Fiber saturation point: Musical quality factor: 57,8 measured at 2556 Hz

Stability: 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 - 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: rapid Possible drying schedule: 2

Risk of distortion: slight risk

Temperature (°C) wet-bulb Risk of casehardening: no M.C. (%) dry-bulb Air humidity (%) Risk of checking: slight risk Green 50 47 84 40 50 45 75 Risk of collapse: no 30 55 47 67 Note: Drying requires care. Risks of blue stain. Risks of 20 70 55 47 distortion in presence of tension wood. 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: not recommended or without interest

Note: The presence of tension wood may cause overheating and blunting of sawblades. Risks of woolliness, keep sharp edges.

# **ASSEMBLING**

Nailing / screwing: poor Gluing: correct

# **COMMERCIAL GRADING**

Appearance grading for sawn timbers: According to MGR grading rules (2009)

Possible grading: Prime, Select, Standard, Serviceable, Utility

# **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**

Matches Boxes and crates

Interior joinery Moulding Glued laminated Turned goods

Note: This wood can be used for shingles if treated.

Veneer for interior of plywood

Current furniture or furniture components

Interior panelling Light carpentry Blockboard SESENDOK Page 3/4

# **MAIN LOCAL NAMES**

Country Local name Country Local name India Indonesia SENDOK-SENDOK BAKOTA Peninsular Malaysia Malaysia (islands) SENDOK-SENDOK TERBULAN Malaysia (islands) NEW GUINEA BASSWOOD SESENDOK Papua New Guinea Philippines **GUBAS** Solomon Islands ENDOSPERMUM-SASA Solomon Islands HONGOPO



