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Family: MALVACEAE (angiosperm)

Scientific name(s): Rhodognaphalon brevicuspe

Bombax brevicuspe (synonymous) Rhodognaphalon schumannianum

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: light brown Diameter: from 60 to 100 cm
Sapwood: clearly demarcated Thickness of sapwood: from 8 to 10 cm

Texture: coarse Floats: yes

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

Interlocked grain: slight

Note: Heartwood yellowish brown to light red brown with slightly darker veins.

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.		<u>Mean</u>	Std_dev.
Specific gravity *:	0,46	0,03	Crushing strength *:	35 MPa	5 MPa
Monnin hardness *:	1,4	0,3	Static bending strength *:	58 MPa	8 MPa
Coeff. of volumetric shrinkage:	0,40 %	0,06 %	Modulus of elasticity *:	8760 MPa	590 MPa
Total tangential shrinkage (TS):	8,2 %	0,7 %			
Total radial shrinkage (RS):	4,3 %	0,5 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)		
TS/RS ratio:	1,9				
Fiber saturation point:	38 %		Musical quality factor: 100,2 measured at 2461 Hz		
Stability: cto	ablo				

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: durable - sapwood demarcated (risk limited to sapwood)

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: does not require any 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: 4

Risk of distortion: slight risk

Temperature (°C) wet-bulb Risk of casehardening: no M.C. (%) dry-bulb Air humidity (%) Risk of checking: high risk Green 42 39 82 50 48 43 74 Risk of collapse: no 48 43 74 40 Note: Initial surface drying prior to kiln drying is 30 48 43 74 recommended in order to reduce defects. Tendency to warping on backsawn. 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: good

Slicing: not recommended or without interest

Note: Sometimes fuzzy suface.

ASSEMBLING

Nailing / screwing: poor Gluing: correct

COMMERCIAL GRADING

Appearance grading for sawn timbers: According to SATA grading rules (1996)

For the "General Purpose Market":

Possible grading for square edged timbers: choix I, choix II, choix IV

Possible grading for short length lumbers: choix I, choix II
Possible grading for short length rafters: choix I, choix II, choix III

For the "Special Market":

Possible grading for strips and small boards (ou battens): choix I, choix II, choix III

Possible grading for rafters: choix I, choix II, choix III

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

Blockboard Interior joinery Moulding

Current furniture or furniture components

Note: Substitute for OKOUME (Aucoumea klaineana).

Veneer for back or face of plywood

Fiber or particle boards Interior panelling Boxes and crates Turned goods KONDROTI Page 3/4

MAIN LOCAL NAMES

Country Country Local name Local name OVONG Cameroon Benin KPATIN DEHUN N' DEMO Ivory Coast KONDROTI Congo Gabon ALONE Gabon OGUMALANGA Ghana BOMBAX Mozambique MEGUZA Mozambique MUNGUSA Nigeria **AWORI**

Tanzania MFUME United Kingdom EAST AFRICAN BOMBAX



