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Family: MYRISTICACEAE (angiosperm)

Scientific name(s): Staudtia kamerunensis Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: red brown Diameter: from 50 to 90 cm Sapwood: clearly demarcated Thickness of sapwood: from 8 to 10 cm

Texture: fine Floats: no
Grain: straight Log durability: good

Interlocked grain: absent

Note: Heartwood orangey yellow brown to red brown with darker veins. Sometimes oily surface. Grain sometimes wavy.

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 *:	0,88	0,06	Crushing strength *:	88 MPa	10 MPa
Monnin hardness *:	7,5	2,9	Static bending strength *:	151 MPa	23 MPa
Coeff. of volumetric shrinkage:	0,56 %	0,07 %	Modulus of elasticity *:	18510 MPa	3100 MPa
Total tangential shrinkage (TS):	6,0 %	0,8 %			
Total radial shrinkage (RS):	4,6 %	1,0 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)		
TS/RS ratio:	1,3				
Fiber saturation point:	24 %		Musical quality factor:	118,3 measure	d at 2354 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.

F. N. = Furo Norm

Funghi (according to E.N. standards): class 1 - very durable

Dry wood borers: durable - sapwood demarcated (risk limited to sapwood)

Termites (according to E.N. standards): class D - durable

Treatability (according to E.N. standards): class 4 - not permeable

Use class ensured by natural durability: class 4 - in ground or fresh water contact

Species covering the use class 5: No

Note: Presence of transition wood with a lower durability.

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: does not require any preservative treatment In case of risk of temporary humidification: does not require any preservative treatment In case of risk of permanent humidification: does not require any preservative treatment

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DRYING

Drying rate: slow 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 74 40 43 Note: Must be dried slowly and carefully to avoid pockets 30 48 43 74 moisture. Initial surface drying prior to kiln drying is recommended 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: fairly high Sawteeth recommended: stellite-tipped Cutting tools: tungsten carbide

Peeling: not recommended or without interest

Slicing: nood

Note: Requires power.

ASSEMBLING

Nailing / screwing: good but pre-boring necessary

Gluing: correct

Note: Tends to split when nailing.

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

Cabinetwork (high class furniture)

Interior joinery Sliced veneer

Current furniture or furniture components

Ship building (planking and deck)

Interior panelling

Exterior panelling

Vehicle or container flooring

Bridges (parts in contact with water or ground) Resistant to one or several acids

Stairs (inside) Flooring Turned goods Ship building (ribs)

Heavy carpentry

Exterior joinery

Industrial or heavy flooring

Bridges (parts not in contact with water or ground)

Hydraulic works (fresh water)

Sleepers

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Note: As the wood presents different colours, it is recommended to discolour the surface.

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MAIN LOCAL NAMES

Country Local name Country Local name MENGA-MENGA Angola Cameroon M'BONDA Congo MENGA-MENGA Gabon M'BOUN Gabon NIOVE **Equatorial Guinea** BOKAPI Nigeria OROPA Central African Republic MOLANGA Democratic Republic of the Congo KAMASHI Democratic Republic of the Congo SUSUMENGA



