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Family: OCHNACEAE (angiosperm)

Scientific name(s): Testulea gabonensis Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: yellow brown Diameter: from 70 to 100 cm Sapwood: not clearly demarcated Thickness of sapwood: from 3 to 5 cm

Texture: fine Floats: no

Grain: straight or interlocked Log durability: moderate (treatment recommended)

Interlocked grain: slight

Note: Wood yellow brown to orangey yellow.

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 *:	0,72	0,05	Crushing strength *:	61 MPa	9 MPa
Monnin hardness *:	5,2	1,1	Static bending strength *:	100 MPa	18 MPa
Coeff. of volumetric shrinkage:	0,48 %	0,09 %	Modulus of elasticity *:	13090 MPa	2306 MPa
Total tangential shrinkage (TS):	7,0 %	1,2 %			
Total radial shrinkage (RS):	4,0 %	0,4 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)		
TS/RS ratio:	1,8				
Fiber saturation point:	25 %		Musical quality factor: 1	143,3 measure	d at 2480 Hz
Stability: s	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 2 - durable

Dry wood borers: heartwood durable but sapwood not clearly demarcated

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

Treatability (according to E.N. standards): class 3 - poorly permeable

Use class ensured by natural durability: class 3 - not in ground contact, outside

Species covering the use class 5: No

Note: The possible presence of few demarcated sapwood in sawnwoods may have an influence on the

expected 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: requires appropriate preservative treatment

In case of risk of temporary humidification: does not require any 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: 5 Risk of distortion: slight risk Temperature (°C) Risk of casehardening: no M.C. (%) dry-bulb wet-bulb Air humidity (%) Risk of checking: high risk 30 42 41 94 25 42 39 82 Risk of collapse: no 20 48 74 43 Note: Quartersawns recommended in order to reduce the risk 15 48 43 74 of checks

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: not recommended or without interest

Slicing: nood

Note: Possible difficulties in planing due to interlocked grain.

ASSEMBLING

Nailing / screwing: good

Gluing: correct

Note: Pre-boring sometimes necessary, especially for small dimensions

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 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

Current furniture or furniture components

Flooring

Stairs (inside) Bridges (parts not in contact with water or ground)

Sculpture

Sliced veneer Cabinetwork (high class furniture) Interior joinery Interior panelling Ship building (ribs) Ship building (planking and deck) Exterior joinery

Vehicle or container flooring

Turned goods

Moulding

Note: It is recommended to machine this wood with a moisture content inferior to the moisture content usually indicated for the forecasted end-use.

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MAIN LOCAL NAMES

Country Country Local name Local name RONE N'GWAKI Cameroon Congo Gabon AKE Gabon **AKEWE** N' KOMI Gabon IZOMBE Gabon



