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Family: MELIACEAE (angiosperm)

Scientific name(s): Lovoa trichilioides

Lovoa klaineana (synonymous)

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: brown Diameter: from 60 to 120 cm
Sapwood: clearly demarcated Thickness of sapwood: from 3 to 7 cm

Texture: fine Floats: yes

Grain: interlocked Log durability: moderate (treatment recommended)

Interlocked grain: slight

Note: Ring shakes and brittleheart possible in some logs.

Wood yellow brown or grey brown, with black streaks or veins taking a golden glint. Black deposits in the pores.

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 *:	0,53	0,06	Crushing strength *:	47 MPa	8 MPa
Monnin hardness *:	2,3	0,7	Static bending strength *:	72 MPa	13 MPa
Coeff. of volumetric shrinkage:	0,43 %	0,11 %	Modulus of elasticity *:	10460 MPa	946 MPa
Total tangential shrinkage (TS):	5,8 %	0,5 %			
Total radial shrinkage (RS):	3,7 %	0,9 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)		
TS/RS ratio:	1,6				
Fiber saturation point:	27 %		Musical quality factor:	109,5 measure	d at 2693 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 3-4 - moderately to poorly 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 3-4 - poorly or not permeable

Use class ensured by natural durability: class 2 - inside or under cover (dampness possible)

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 to normal 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: Existing shakes tend to slightly extend. 20 70 55 47 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: Difficulties due to interlocked grain in planing (tearing). Keep sharp tools. Ribbon like aspect on quartersawn. Sawdust may

be irritant.

ASSEMBLING

Nailing / screwing: good
Gluing: correct

Note: Risks of end checks

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

Cabinetwork (high class furniture)

Current furniture or furniture components

Sliced veneer Veneer for back or face of plywood Interior panelling Interior joinery

Turned goods

Seats

Light carpentry

Note: Should not be confused with WALNUT (Juglans spp.), only colours are similar.

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MAIN LOCAL NAMES

Country Local name Country Local name Cameroon **BIBOLO** Congo **BOSSO** Ivory Coast Gabon DIBETOU EYAN Ghana AFRICAN WALNUT Ghana DUBINI-BIRI Ghana MPENGWA **Equatorial Guinea** M'BERO **Equatorial Guinea** Nigeria ANAMENILA N'VERO Nigeria Nigeria APOPO SIDA Central African Republic **BOYO KONDI** Democratic Republic of the Congo **BOMBULU** Democratic Republic of the Congo LIFAKI MUINDU Sierra Leone WNAIMEI France NOYER D'AFRIQUE France NOYER DU GABON United Kingdom United Kingdom AFRICAN WALNUT **TIGERWOOD** United States of America CONGOWOOD United States of America **TIGERWOOD**



