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Family: RUBIACEAE (angiosperm)

Scientific name(s): Fleroya ledermannii

Hallea ciliata (synonymous) Mitragyna ciliata (synonymous)

Fleroya stipulosa

Hallea stipulosa (synonymous) Mitragyna stipulosa (synonymous)

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: light brown Diameter: from 60 to 80 cm

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

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

Interlocked grain: slight

Note: Possible presence of brittleheart and coloured 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

	Mean	Std dev.		Mean	Std dev.
Specific gravity *:	0,60	0,05	Crushing strength *:	46 MPa	9 MPa
Monnin hardness *:	2,0	0,3	Static bending strength *:	78 MPa	16 MPa
Coeff. of volumetric shrinkage:	0,44 %	0,11 %	Modulus of elasticity *:	11020 MPa	2318 MPa
Total tangential shrinkage (TS):	8,9 %	0,3 %			
Total radial shrinkage (RS):	4,3 %	0,1 %	(*: at 12% moisture cor	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)	
TS/RS ratio:	2,1				
Fiber saturation point:	32 %		Musical quality factor: 96,2 measured at 2651 Hz		
Stability: m	oderately 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 2 - moderately 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 to normal

Possible drying schedule: 2

Risk of distortion: no risk or very slight risk

Risk of casehardening: no
Risk of checking: slight risk
Risk of collapse: no

M.C. (%)	dry-bulb	ture (°C) wet-bulb	Air humidity (%)
Green	50	47	84
40	50	45	75
30	55	47	67
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: fairly high
Sawteeth recommended: stellite-tipped
Cutting tools: tungsten carbide

Peeling: good Slicing: nood

> Note: Blunting effect is variable. Sawdust occasionally irritant.

ASSEMBLING

Nailing / screwing: good but pre-boring necessary

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

Current furniture or furniture components

Veneer for back or face of plywood Cabinetwork (high class furniture)

Boxes and crates Interior panelling Glued laminated

Wood-ware

Sliced veneer

Veneer for interior of plywood

Moulding Interior joinery Sculpture Turned goods

Resistant to one or several acids

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MAIN LOCAL NAMES

Country Local name Country Local name AGBANTIN Angola MIVUKO Benin Cameroon ELOLOM VUKU Congo Ivory Coast BAHIA Gabon ELELOM-N'ZAM Ghana SUBAHA **Equatorial Guinea ELELON** Nigeria ABURA Uganda NZINGU Democratic Republic of the Congo Central African Republic ORO MVUKU Sierra Leone MBOI Zambia NZINGU Germany SUBAHA France BAHIA



