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Family: ERYTHROXYLACEAE (angiosperm)

Scientific name(s): Erythroxylum mannii
Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: light brown Diameter: from 80 to 100 cm
Sapwood: not clearly demarcated Thickness of sapwood: from 3 to 6 cm

Texture: fine Floats: yes

Grain: interlocked Log durability: good

Interlocked grain: slight

Note: Wood light brown to light red brown darkening with light. Small dark pith flecks. Alternate light and dark 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 *:	0,66	0,03	Crushing strength *:	53 MPa	3 MPa
Monnin hardness *:	2,6	0,6	Static bending strength *:	91 MPa	8 MPa
Coeff. of volumetric shrinkage:	0,46 %	0,08 %	Modulus of elasticity *:	14010 MPa	
Total tangential shrinkage (TS):	8,8 %				
Total radial shrinkage (RS):	3,8 %		(*: at 12% moisture content, with 1 MPa = 1 N/mm²)		
TS/RS ratio:	2,3				
Fiber saturation point:	30 %		Musical quality factor: 9	96,1 measured	at 2403 Hz
Stability: poorly stable					

Stability: poorly 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 4 - in ground or fresh water contact

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: does not require any preservative treatment LANDA Page 2/4

DRYING

Drying rate: normal to slow

Risk of distortion: slight risk

Risk of casehardening: no

Risk of checking: slight risk Risk of collapse: no Possible drying schedule: 3

Temperature (°C)							
	M.C. (%)	dry-bulb	wet-bulb	Air humidity (%)			
	Green	60	56	81			
	30	68	58	61			
	20	74	60	51			
	15	80	61	41			

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

ASSEMBLING

Nailing / screwing: good
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

Exterior joinery
Interior panelling
Sliced veneer
Flooring

Current furniture or furniture components

Bridges (parts not in contact with water or ground)

Ship building (planking and deck) Veneer for back or face of plywood Interior joinery Exterior panelling Stairs (inside)

Vehicle or container flooring

Seats

Wood frame house

Veneer for interior of plywood

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MAIN LOCAL NAMES

Country Local name Country Local name Cameroon LANDA Congo LUKIENZO Ivory Coast DABE Gabon LANDA Democratic Republic of the Congo BIMINI NKANZA Sierra Leone



