

Family: MALVACEAE (angiosperm)

Scientific name(s): Scleronema micranthum

Scleronema praecox

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

Color: red brown
Sapwood: clearly demarcated
Texture: coarse
Grain: straight
Interlocked grain: absent
Note: Frequent presence of traumatic canals.

LOG DESCRIPTION

Diameter: from 50 to 80 cm
Thickness of sapwood: from 5 to 8 cm
Floats: no
Log durability: low (must be treated)

PHYSICAL 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>	<u>Std dev.</u>
Specific gravity *:	0,72	0,06
Monnin hardness *:	3,3	0,6
Coeff. of volumetric shrinkage:	0,67 %	0,07 %
Total tangential shrinkage (TS):	10,0 %	1,1 %
Total radial shrinkage (RS):	5,4 %	1,1 %
TS/RS ratio:	1,9	
Fiber saturation point:	28 %	
Stability: poorly stable		

MECHANICAL AND ACOUSTIC PROPERTIES

	<u>Mean</u>	<u>Std dev.</u>
Crushing strength *:	62 MPa	5 MPa
Static bending strength *:	100 MPa	9 MPa
Modulus of elasticity *:	19140 MPa	1303 MPa

(*: at 12% moisture content, with 1 MPa = 1 N/mm²)

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: durable - sapwood demarcated (risk limited to sapwood)

Termites (according to E.N. standards): class S - susceptible

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

Use class ensured by natural durability: class 1 - inside (no dampness)

Species covering the use class 5: No

REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: does not require any preservative treatment

In case of risk of temporary humidification: use not recommended

In case of risk of permanent humidification: use not recommended

DRYING

Drying rate: slow

Risk of distortion: high risk

Risk of casehardening: yes

Risk of checking: high risk

Risk of collapse: no

Note: Drying must be done with care; high humidity and quartersawn are recommended.

Possible drying schedule: 6

M.C. (%)	Temperature (°C)		Air humidity (%)
	dry-bulb	wet-bulb	
Green	42	41	94
50	48	43	74
30	54	46	63
20	60	51	62
15	60	51	62

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: not recommended or without interest

ASSEMBLING

Nailing / screwing: good

Gluing: correct

COMMERCIAL GRADING

Appearance grading for sawn timbers: According to NHLA grading rules (January 2007)

Possible grading: FAS, Select, Common 1, Common 2, Common 3

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

Interior joinery

Moulding

Heavy carpentry

Blockboard

Matches

Note: Decorative end-uses are not recommended due to frequent traumatic canals.

Current furniture or furniture components

Wood frame house

Glued laminated

Veneer for interior of plywood

Flooring

MAIN LOCAL NAMES

<u>Country</u>	<u>Local name</u>
Brazil (Amazon)	CARDEIRO
Brazil (Amazon)	CEDRINHO

<u>Country</u>	<u>Local name</u>
Brazil (Amazon)	CASTANHA DE PACA
Brazil (Amazon)	CEDRO BRAVO

