MUIRATINGA
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Family: MORACEAE (angiosperm)

Scientific name(s): Maquira coriacea

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: creamy white Diameter: from 60 to 100 cm

Sapwood: not demarcated Thickness of sapwood:
Texture: medium Floats: no

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

Interlocked grain: slight

Note: Wood cream white to light yellow. Unpleasant odour when green.

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.	Mean Std dev.
Specific gravity *:	0,47	0,04	Crushing strength *: 39 MPa 4 MPa
Monnin hardness *:	1,3	0,3	Static bending strength *: 58 MPa 12 MPa
Coeff. of volumetric shrinkage:	0,46 %	0,05 %	Modulus of elasticity *: 10070 MPa 1006 MPa
Total tangential shrinkage (TS):	7,0 %	0,9 %	
Total radial shrinkage (RS):	3,8 %	1,0 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)
TS/RS ratio:	1,8		
Fiber saturation point:	26 %		Musical quality factor: 115,5 measured at 2861 Hz
Stability:	moderately stable		

Stability: Moderatery 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 1 - easily 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: 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

Possible drying schedule: 3

Risk of distortion: slight risk

Risk of casehardening: no Risk of checking: slight risk

Risk of collapse: no

Note: Prone to blue stain.

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: high

Sawteeth recommended: stellite-tipped

Cutting tools: tungsten carbide

Peeling: good Slicing: nood

Note: Fuzzy surface. Very high silica content

ASSEMBLING

Nailing / screwing: poor

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

Veneer for interior of plywood

Formwork Interior joinery Moulding

Sliced veneer

Veneer for back or face of plywood

Boxes and crates Interior panelling

Current furniture or furniture components

Wood-ware

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MAIN LOCAL NAMES

<u>Country</u> Brazil (Amazon) Local name CAPINURI <u>Country</u> Brazil (Amazon) <u>Local name</u> MUIRATINGA MUIRATINGA Page 4/4



