BATIBATRA Page 1 of 4

Family: FABACEAE-MIMOSOIDEAE (angiosperm)

Scientific name(s): Enterolobium schomburgkii Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: brown Diameter: from 50 to 80 cm
Sapwood: clearly demarcated Thickness of sapwood: from 3 to 5 cm

Texture: medium Floats: no
Grain: straight or interlocked Log durability: good

Interlocked grain: slight

Note: Logs are often clearly curved. Grain sometimes wavy.

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 *:	0,83	0,08	Crushing strength *:	66 MPa	9 MPa
Monnin hardness *:	5,5	2,0	Static bending strength *:	115 MPa	22 MPa
Coeff. of volumetric shrinkage:	0,61 %	0,06 %	Modulus of elasticity *:	17090 MPa	4600 MPa
Total tangential shrinkage (TS):	9,0 %	1,2 %			
Total radial shrinkage (RS):	4,1 %	0,9 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)		
TS/RS ratio:	2,2				
Fiber saturation point:	26 %		Musical quality factor:	113,5 measure	d at 2926 Hz
Stability:	bility: moderately stable to 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.

E.N. = Euro Norm

Funghi (according to E.N. standards): class 1 - very durable

Dry wood borers: durable - sapwood demarcated (risk limited to sapwood)

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: 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: does not require any 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

BATIBATRA Page 2/4

DRYING

Drying rate: normal to slow Possible drying schedule: 4

Risk of distortion: high risk

Temperature (°C) wet-bulb Risk of casehardening: yes M.C. (%) dry-bulb Air humidity (%) Risk of checking: high risk Green 42 39 82 50 48 43 74 Risk of collapse: no 40 48 43 74 Note: In order to reduce the risks of casehardening, air 30 48 43 74 drying must be done under cover; during kiln drying,

This schedule is given for information only and is applicable to thickness lower or equal to 38 mm.

keep a high humidity.

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: not recommended or without interest

Slicing: nood

Note: Requires power. Raised grain occurs when planing in presence of interlocked grain. Sawdust sometimes irritant.

ASSEMBLING

Nailing / screwing: good

Gluing: correct (for interior only)

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

15

54

46

63

22 mm.

END-USES

Interior panelling Interior joinery Current furniture or furniture components Flooring

Wood frame house Cabinetwork (high class furniture) Sliced veneer Heavy carpentry

Hydraulic works (fresh water) Sleepers Tool handles (resilient woods) Exterior joinery

Turned goods Bridges (parts in contact with water or ground)

Bridges (parts not in contact with water or ground) Stairs (inside) BATIBATRA Page 3/4

MAIN LOCAL NAMES

CountryLocal nameCountryLocal nameBrazilBATIBATRABrazil (Amazon)FAVA DE ROSCABrazil (Amazon)FAVA ORELHA DE MACACOBrazil (Amazon)FAVA ORELHA DE NEGRO

Brazil (Amazon)TIMBAUBABrazil (Amazon)TIMBORANAFrench GuianaACACIA FRANCFrench GuianaBOUGOU BAT

French Guiana ACACIA FRANC French Guiana BOUGOU BATI BATRA Suriname TAMAREN PROKONI

BATIBATRA Page 4/4



