SANDE Page 1 of 4

Family: MORACEAE (angiosperm)

Scientific name(s): Brosimum utile

Brosimum parinarioides Brosimum potabile

Commercial restriction: no commercial restriction

Note: SANDE refers to light coloured Brosimum species.

WOOD DESCRIPTION

LOG DESCRIPTION

Color: light brown Diameter: from 70 to 90 cm

Sapwood: not demarcated Thickness of sapwood:

Texture: medium Floats: yes

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

Interlocked grain: slight

Note: Heartwood varies from greyish white to light brown with golden shades. Sometimes internal stresses.

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 *:	0,69	0,05	Crushing strength *:	64 MPa	7 MPa
Monnin hardness *:	3,5	1,0	Static bending strength *:	95 MPa	10 MPa
Coeff. of volumetric shrinkage:	0,59 %	0,03 %	Modulus of elasticity *:	16380 MPa	2170 MPa
Total tangential shrinkage (TS):	8,2 %	1,3 %			
Total radial shrinkage (RS):	5,8 %	1,1 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm ²)		
TS/RS ratio:	1,4				
Fiber saturation point:	28 %		Musical quality factor:	115,5 measure	ed at 2728 Hz
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.

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

Note: Prone to blue stain.

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: normal Possible drying schedule: 3

Risk of distortion: slight risk

Temperature (°C) wet-bulb Risk of casehardening: no M.C. (%) dry-bulb Air humidity (%) Risk of checking: no risk or very slight risk Green 60 56 81 30 68 58 61 Risk of collapse: no 20 74 60 51

Note: The risks of distortion increase in presence of highly interlocked grain; in this case, air drying is

recommended.

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

Note: Some difficulties in presence of internal stresses (overheating of sawblades) and highly interlocked grain. Keep sharp tools.

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

15

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61

41

22 mm.

END-USES

Veneer for interior of plywood

Current furniture or furniture components

Interior joinery

Fiber or particle boards

Light carpentry Sliced veneer

Veneer for back or face of plywood

Boxes and crates Moulding

Interior panelling

Flooring

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MAIN LOCAL NAMES

Country Local name Country Local name Brazil (Amazon) Brazil (Amazon) AMAPA AMAPA DOCE Brazil (Amazon) ARBOL VACA Brazil (Amazon) LEITEIRA Colombia ARBOL VACA Colombia GUAIMARO Colombia Colombia SANDE LECHERO Costa Rica PALO DE VACA Ecuador SANDE French Guiana French Guiana TAKINA DOKALI Panama PALO DE VACA Panama SANDY Peru PANGUANA Venezuela MARINA Venezuela SANDE Venezuela VACA United Kingdom COW TREE



