Common name: SANDE

Family: MORACEAE Scientific name(s): Brosimum utile

Brosimum parinarioides
Brosimum potabile

Note: SANDE refers to light coloured Brosimum species.

LOG DESCRIPTION WOOD DESCRIPTION

70 to 90 cm Colour: Diameter: from Light brown Thickness of sapwood: Sapwood: Not demarcated from to cm Floats: Texture: Medium yes Durability in forest: Low (must be treated) Grain: Interlocked

Interlocked grain: Slight

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

stresses.

## PHYSICAL PROPERTIES

#### MECHANICAL PROPERTIES

Physical and mechanical properties are based on mature heartwood specimens. These properties can vary greatly depending on origin and growth conditions.

	mean	standard deviation		mean	standard
Density *:	0.69 g/cm	3 0.05			deviation
Monnin hardness*:	3.5	1.0	Crushing strength *:	64 MPa	7
Coef of volumetric shrinkage	: 0.59 %	0.03	Static bending strength *:	95 MPa	10
Total tangential shrinkage:	8.2 %	1.3	Static bending strength.	95 WII a	10
Total radial shrinkage:	5.8 %	1.1	Modulus of elasticity *:	16380 MPa	2170
Fibre saturation point:	28 %				
Stability:	Poorly stable		( *: at 12 % moisture content; 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.

Fungi: Class 5 - not durable

Dry wood borers: Susceptible; sapwood not or slightly demarcated (risk in all the wood)

Termites: Class S - Susceptible Treatability: 1 - easily permeable

Biological hazard class\*: 1 - not in ground contact, under cover (no dampness)

Note: Prone to blue stain.

\* ensured by natural durability (according EN standards).

#### **COUNTRIES - LOCAL NAMES**

Countries	Local names	Countries	Local names	
Brazil (Amazon)	AMAPA	Venezuela	VACA	
Brazil (Amazon)	AMAPA DOCE	United Kingdom	COW TREE	
Brazil (Amazon)	APROL VACA	<u>'</u>		

Brazil (Amazon) ARBOL VACA
Brazil (Amazon) LEITEIRA
Colombia ARBOL VACA
Colombia GUAIMARO
Colombia LECHERO
Colombia SANDE

Costa-Rica PALO DE VACA

Ecuador SANDE
French Guiana DOKALI
French Guiana TAKINA
Panama PALO DE VACA
Panama SANDY

Peru PANGUANA
Venezuela MARINA
Venezuela SANDE

#### **SANDE**

## REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: Requires appropriate preservative treatment In case of temporary humidification risk: Requires appropriate preservative treatment

In case of permanent humidification risk: Use not recommended

DRYING	RYING Possible drying schedule				
Drying rate: Risk of distortion: Risk of casehardening: Risk of checking: Risk of collapse:	Normal Slight risk No No risk or very slight risk No	M.C. (%)	Tempera dry-bulb	uture (°C) wet-bulb	Air humidity (%)
		Green 30 20 15	60 68 74 80	56 58 60 61	81 61 51 41

This shedule is given for information only and is applicable to thickness < 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.

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

recommended.

#### SAWING AND MACHINING

Blunting effect: Normal

Sawteeth recommended: Ordinary or alloy steel

Cutting tools: Ordinary
Peeling: Good
Slicing: Good

Note: Some difficulties in presence of internal stresses (overheating of sawblades) and highly

interlocked grain. Keep sharp tools.

## **ASSEMBLING**

Nailing / Screwing: Good Gluing: Correct

#### **END-USES**

Main known end-uses; they must to be implemented according to the code of practice.

Important remark: some end-uses are mentionned for information (traditional, regional or ancient end-uses).

Veneer for interior of plywood

Veneer for back or face of plywood

Current furniture or furniture components

Boxes and crates

Interior joinery

Moulding

Fiber or particle boards

Interior panelling

Light carpentry

Flooring

Sliced veneer