

Common name:	MARUPA
Family:	SIMAROUBACEAE
Scientific name(s):	Simarouba amara Quassia simarouba (synonymous)

LOG DESCRIPTION		WOOD DESCRIPTION	
Diameter:	from 50 to 90 cm	Colour:	Creamy white
Thickness of sapwood:	from to cm	Sapwood:	Not demarcated
Floats:	yes	Texture:	Coarse
Durability in forest :	Low (must be treated)	Grain:	Straight
		Interlocked grain:	Absent
Note:	Cream white to light yellow. Sometimes oily veins.		

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 deviation
Density *:	0.41 g/cm ³	0.04	Crushing strength *:	34 MPa	6
Monnin hardness*:	1.1	0.5	Static bending strength *:	59 MPa	11
Coef of volumetric shrinkage:	0.36 %	0.08	Modulus of elasticity *:	10070 MPa	1711
Total tangential shrinkage:	6.3 %	0.6			
Total radial shrinkage:	2.8 %	0.5			
Fibre saturation point:	32 %				
Stability:	stable		(* : at 12 % moisture content ; 1 MPa = 1 N/mm ²)		

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)

* ensured by natural durability (according EN standards).

COUNTRIES - LOCAL NAMES

Countries	Local names
Bolivia	CHIRIUANA
Brazil (Amazon)	MARUPA
Brazil (Amazon)	MARUPAUBA
Brazil	PARAHYBA
Brazil	PARAIBA
Brazil	TAMANQUEIRA
Colombia	SIMARUBA
Ecuador	CEDRO AMARGO
Ecuador	CUNA
Ecuador	GUITARRO
French Guiana	SIMARUBA
Guyana	SIMARUPA
Peru	MARUPA
Surinam	SOEMAROEBA
Venezuela	CEDRO BLANCO
Venezuela	SIMARUBA
United Kingdom	BITTERWOOD

MARUPA

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

Possible drying schedule

Drying rate:	Rapid	M.C. (%)	Temperature (°C)		Air humidity (%)
			dry-bulb	wet-bulb	
Risk of distortion:	No risk or very slight risk	Green	60	56	81
Risk of casehardening:	No	30	68	58	61
Risk of checking:	No risk or very slight risk	20	74	60	51
Risk of collapse:	No	15	80	61	41

This schedule 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: Prone to blue stain before and during drying.

SAWING AND MACHINING

Blunting effect:	Normal
Sawteeth recommended:	Ordinary or alloy steel
Cutting tools:	Ordinary
Peeling:	Good
Slicing:	Good

ASSEMBLING

Nailing / Screwing:	Poor
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 mentioned for information (traditional, regional or ancient end-uses).

Note: Filling is recommended in order to obtain a good finish.

Veneer for interior of plywood
Veneer for back or face of plywood
Boxes and crates
Blockboard
Current furniture or furniture components
Sliced veneer
Stringed instruments (sounding board)
Moulding
Matches
Turned goods
Interior panelling
Interior joinery
Fiber or particle boards
Wood-ware
