# MARUPA

Family: Scientific name(s):

**Commercial restriction:** 

SIMAROUBACEAE (angiosperm) Simarouba amara Quassia simarouba (synonymous) no commercial restriction

# WOOD DESCRIPTION

Color: Creamy white Sapwood: not demarcated **Texture:** coarse Grain: straight **Interlocked Grain:** absent Note:

Creamy white to light yellow. Sometimes has oily veins.

# PHYSICAL PROPERTIES

# LOG DESCRIPTION

Diameter:	19.7 – 35.4 inches
Thickness of Sapwood:	
Floats:	yes
Log Durability:	low

### **MECHANICAL/ACOUSTIC** Physical and mechanical properties are based on mature heartwood specimens. These properties can vary greatly depending on origin and growth

conditions. Std. Dev. Mean Mean

<b>Specific Gravity</b>	*:	0.41	0.04
Janka Hardness	s (lbs):	440	
<b>Volumetric Shri</b>	nkage:	0.36%	0.08%
<b>Total Tangentia</b>	I Shrinkage (TS):	6.3%	0.6%
<b>Total Radial Sh</b>	rinkage (RS):	2.8%	0.5%
TS/RS Ratio:		2.3	
Fiber Saturation Point:		32%	
Stability:	Moderately stable to poorly stable		

#### **Crushing Strength\*:** 4,931 lbf Static Bending Strength\*: 8,557 lbf Modulus of Elasticity\*: 1,460,530 lbf

Musical Quality Factor: 86.3 measured at 2747 Hz

\*At 12% moisture content.

# 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): **Dry Wood Borers:** Termites (According to E.N. standards):

Treatability (according to E.N. standards): Use class ensured by natural durability: Species covering the use class 5:

class 5 - not durable susceptible - sapwood not or slightly demarcated (risk in all the wood) class S - susceptible class 1 - easily permeable class 1 - inside (no dampness) no

# **REQUIREMENT OF A PRESERVATIVE TREATMENT**

Against dry wood borer attacks: In case of risk of temporary humidification: requires appropriate preservative treatment In case of risk of permanent humidification: use not recommended

requires appropriate preservative treatment



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## DRYING

Drying Rate:rapidRisk of Distortion:no risk or very slight riskRisk of Casehardening:noRisk of Checking:no risk or very slight riskRisk of Collapse:noNote:Prone to blue stain before and during drying.

Temperature (°F) M.C. (%) Wet-Bulb **Air Humidity Drv-Bulb** (%) 140 132.8 81 Green 154.4 30 136.4 61 20 165.2 140 51 15 176 141.8 41

Possible Drying Schedule: 3

This schedule is given for information only and is applicable to thickness lower or equal to 1.5 in. It must be used in compliance with the code of practice. For thickness from 1.5 to 3 in, the air relative humidity should be increased by 5% at each step. For thickness over 3 in, a 10% increase should be considered.

### SAWING AND MACHINING

Blunting Effect:normalSawteeth Recommendeelordinary or alloy steelCutting Tools:ordinaryPeeling:goodSlicing:good

### ASSEMBLING

Nailing / screwing: poor Gluing: correct

### **END-USES**

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

#### Works Cited:

CIRAD'S Biomass, Wood, Energy, Bioproducts Research Unit (BioWooEB)

# MAIN LOCAL NAMES

Country Bolivia Brazil (Amazon) Brazil Colombia Ecuador Guyana Peru Venezuela United Kingdom Local Name Chiriuana Marupauba Paraiba, Parahyba, Tamanqueira Simaruba Cuna, Cedro Amargo, Guitarro Simarupa Marupa Cedro Blanco, Simarouba Bitterwood