Family: FABACEAE (angiosperm)

Scientific name(s): Vatairea guyanensis

Vatairea paraensis Vatairea spp. Vataireopsis araroba Vataireopsis surinamensis

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: yellow brown Diameter: from 60 to 90 cm
Sapwood: clearly demarcated Thickness of sapwood: from 4 to 7 cm

Texture: coarse Floats: no

Grain: straight or interlocked Log durability: moderate (treatment recommended)

Interlocked grain: slight

Note: Bright yellow when freshly sawn, becoming yellow brown to dark brown or red brown.

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 *:	0,75	0,12	Crushing strength *:	58 MPa	9 MPa
Monnin hardness *:	5,6	3,0	Static bending strength *:	110 MPa	24 MPa
Coeff. of volumetric shrinkage:	0,51 %	0,08 %	Modulus of elasticity *:	19500 MPa	4550 MPa
Total tangential shrinkage (TS):	7,8 %	1,7 %			
Total radial shrinkage (RS):	4,5 %	0,9 %	(*: at 12% moisture con	tent, with 1 M	$Pa = 1 N/mm^2$
TS/RS ratio:	1,7				
Fiber saturation point:	23 %		Musical quality factor: 1	127,7 measure	ed at 2853 Hz
Ctability: r	madarataly stable to sta	blo			

Stability: moderately stable to 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 3 - moderately durable

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

Termites (according to E.N. standards): class M - moderately durable

Treatability (according to E.N. standards): class 3-4 - poorly or not permeable

Use class ensured by natural durability: class 2 - inside or under cover (dampness possible)

Species covering the use class 5: No

REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: does not require any preservative treatment

In case of risk of temporary humidification: requires appropriate preservative treatment

In case of risk of permanent humidification: use not recommended

DRYING

Drying rate: rapid to normal

Risk of distortion: slight risk

Risk of casehardening: no

Risk of checking: no risk or very slight risk

Risk of collapse: no

Possible drying schedule: 3

Temperature (°C)							
	M.C. (%)	dry-bulb	wet-bulb	Air humidity (%)			
	Green	60	56	81			
	30	68	58	61			
	20	74	60	51			
	15	90	61	11			

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: fairly high
Sawteeth recommended: stellite-tipped
Cutting tools: tungsten carbide

Peeling: not recommended or without interest

Slicing: nood

Note: Sawdust may cause allergies

ASSEMBLING

Nailing / screwing: good but pre-boring necessary

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 4

In French Guiana, the local name of this species is "INKASSA". Grading is done according to local rules "Bois

guyanais classés".

Possible grading: Choix 1, choix 2, choix 3, choix 4

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 2000). It can a structural gradied timber in vertical ways with graded distributions of European standard EN 14081-1 annex C (April 2000).

2009). It concerns structural graded timber in vertical uses with mean density upper 0.35 and thickness upper

22 mm.

END-USES

Industrial or heavy flooringHeavy carpentryInterior panellingFlooringBlockboardInterior joineryExterior joinerySliced veneer

Stairs (inside) Cabinetwork (high class furniture)

Formwork

Note: It is recommended to prepare surfaces and apply an undercoat, such as filling, before finishing as FAVEIRA AMARGOSA contains anti-siccatives.

MAIN LOCAL NAMES

CountryLocal nameBrazilANGELIM AMARGOSOBrazilFAVA AMARELABrazilFAVEIRA AMARELABrazilFAVEIRA BOLACHA

Colombia MAQUI
Guyana BASTARD PURPLEHEART

French Guiana INKASSA
Honduras AMARGO
Peru MARI-MARI
Suriname ARISOEROE
Suriname GELI-KABISSI

Country
Brazil
Brazil
Brazil
Colombia
Guyana
Guyana
French Guiana
Panama
Peru

Suriname

Local name

ARACUY

FAVA AMARGOSA

FAVEIRA AMARGOSA

GUERRA

ARISAURO

BAUWAUA

YONGO

AMARGO

MARUPA DEL BAJO

GELE KABBES



