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Family: MORACEAE (angiosperm)

Scientific name(s): Bagassa guianensis

Bagassa tiliaefolia (synonymous)

Commercial restriction: no commercial restriction

#### WOOD DESCRIPTION

# LOG DESCRIPTION

Color: yellow brown Diameter: from 50 to 90 cm Sapwood: clearly demarcated Thickness of sapwood: from 2 to 4 cm

Texture: medium Floats: no Grain: interlocked Log durability: good

Interlocked grain: marked

Note: When freshly cut, the heartwood is yellow. It becomes yellow brown to dark brown with age.

#### 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.		Mean	Std dev.
Specific gravity *:	0,80	0,07	Crushing strength *:	78 MPa	9 MPa
Monnin hardness *:	6,4	1,3	Static bending strength *:	109 MPa	21 MPa
Coeff. of volumetric shrinkage:	0,53 %	0,05 %	Modulus of elasticity *:	21490 MPa	2150 MPa
Total tangential shrinkage (TS):	5,2 %	0,3 %			
Total radial shrinkage (RS):	3,7 %	0,4 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)		
TS/RS ratio:	1,4				
Fiber saturation point:	20 %		Musical quality factor:	121 measured	at 2773 Hz
Stability: 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 1 - very durable

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

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

Treatability (according to E.N. standards): class 3 - poorly permeable

Use class ensured by natural durability: class 4 - in ground or fresh water contact

Species covering the use class 5: Yes

Note: This species naturally covers the use class 5 (end-uses in marine environment or in brackish water) due to its high silica content.

According to the European standard NF EN 335, performance length might be modified by the

intensity of end-use exposition.

#### REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: does not require any preservative treatment In case of risk of temporary humidification: does not require any preservative treatment In case of risk of permanent humidification: does not require any preservative treatment TATAJUBA Page 2/4

## **DRYING**

Drying rate: normal to slow Possible drying schedule: 6

Risk of distortion: high risk

Temperature (°C) wet-bulb Risk of casehardening: no M.C. (%) Air humidity (%) dry-bulb Risk of checking: slight risk Green 42 41 50 48 43 74 Risk of collapse: no 30 54 46 63 Note: High risks of distortion in presence of highly interlocked 20 60 51 62 grain. During drying, spacer sticks may stain the wood. 15 60 51 62

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: no information available

Slicing: nood

Note: Sawdust sometimes irritant. Presence of internal stresses.

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

22 mm.

# **END-USES**

Flooring
Ship building (planking and deck)

Cabinetwork (high class furniture)

Interior joinery Sliced veneer

Hydraulic works (fresh water)

Exterior panelling

Bridges (parts not in contact with water or ground)

Turned goods

Vehicle or container flooring

Note: Interlocked grain may be troublesome in the use of this wood.

Current furniture or furniture components

Ship building (ribs) Wood frame house Interior panelling Sleepers Exterior joinery

Bridges (parts in contact with water or ground)

Heavy carpentry Stairs (inside) Moulding TATAJUBA Page 3/4

# **MAIN LOCAL NAMES**

Country Country Local name Local name Brazil Brazil AMARELAO BAGACEIRA Brazil TATAJUBA Guyana COW-WOOD French Guiana BAGASSE French Guiana KAW OUDOU French Guiana ODOUN French Guiana TATAJUBA Suriname **JAWAHEDAN** Suriname KAW-OEDOE

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