Family: ANACARDIACEAE (angiosperm)

Scientific name(s): Astronium balansae

Astronium fraxinifolium Astronium graveolens Astronium lecointei Astronium urundeuva

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: dark brown Diameter: from 60 to 80 cm
Sapwood: clearly demarcated Thickness of sapwood: from 4 to 10 cm

Texture: fine Floats: no
Grain: straight or interlocked Log durability: good

Interlocked grain: slight

Note: Pinkish brown to yellow brown, becoming red brown to dark brown, with very irregularly spaced black brown veins.

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	0,11	Crushing strength *: 76 MPa
Monnin hardness *:	6,1		Static bending strength *: 96 MPa
Coeff. of volumetric shrinkage:	0,56 %		Modulus of elasticity *: 16500 MPa
Total tangential shrinkage (TS):	7,9 %		
Total radial shrinkage (RS):	4,3 %		(*: at 12% moisture content, with 1 MPa = 1 N/mm ²)
TS/RS ratio:	1,8		
Fiber saturation point:	22 %		
Stability: poorly 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 4 - not permeable

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

Species covering the use class 5: No

Note: 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

DRYING

Drying rate: normal Possible drying schedule: 5

Risk of distortion: slight risk

Temperature (°C) wet-bulb Risk of casehardening: no M.C. (%) dry-bulb Air humidity (%) Risk of checking: slight risk 30 42 41 94 25 42 39 82 Risk of collapse: no 20 48 43 74 15 48 43 74

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

ASSEMBLING

Nailing / screwing: good but pre-boring necessary

Gluing: poor

COMMERCIAL GRADING

Appearance grading for sawn timbers: According to NHLA grading rules (January 2007)

Possible grading: FAS, Select, Common 1, Common 2, Common 3

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

Cabinetwork (high class furniture) Sliced veneer Flooring Wood-ware

Turned goods Exterior joinery Interior joinery Interior panelling Musical instruments Heavy carpentry

Tool handles (resilient woods) Sculpture MUIRACATIARA
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MAIN LOCAL NAMES

Country	<u>Local name</u>	Country	<u>Local name</u>
Brazil	ADERNO-PRETO	Brazil	BARACATIARA
Brazil	GONÇALEIRO	Brazil	GONÇALO-ALVEZ
Brazil	GUARIBU-PRETO	Brazil	GUARITA
Brazil	MIRUEIRA	Brazil	MUIRACATIARA
Brazil	SANGUESSUGUEIRA	Colombia	GUSANERO
Ecuador	GUASANGO	Mexico	PALO DE CULEBRA
Paraguay	URUNDAY-PARA	Venezuela	GATEADO



