Family: APOCYNACEAE (angiosperm)

Scientific name(s): Aspidosperma spp.

Commercial restriction: no commercial restriction

Note: The genus Aspidosperma is also associated to other woods (PEROBA ROSA, QUEBRACHO BLANCO, CARRETO, PIQUIA

MARFIM). The species ARACACANGA presents a great variability. This data sheet describes ARACACANGA species with a high

specific gravity.

WOOD DESCRIPTION

LOG DESCRIPTION

Color: light brown Diameter: from 60 to 80 cm Sapwood: clearly demarcated Thickness of sapwood: from 3 to 8 cm

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

Interlocked grain: slight

Note: Heartwood orange light brown sometimes with large pink 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.		<u>Mean</u>	Std dev.
Specific gravity *:	0,94	0,08	Crushing strength *:	89 MPa	11 MPa
Monnin hardness *:	8,3	3,2	Static bending strength *:	153 MPa	23 MPa
Coeff. of volumetric shrinkage:	0,75 %	0,09 %	Modulus of elasticity *:	26140 MPa	5518 MPa
Total tangential shrinkage (TS):	9,8 %	1,3 %			
Total radial shrinkage (RS):	6,3 %	1,1 %	(*: at 12% moisture con	ntent, with 1 M	$Pa = 1 N/mm^2$
TS/RS ratio:	1,6				
Fiber saturation point:	26 %		Musical quality factor:	122,7 measure	d at 2976 Hz
Stability: po	orly 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 M - moderately 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: 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 to slow

Risk of distortion: high risk

Risk of casehardening: no Risk of checking: high risk Risk of collapse: yes

Possible drying schedule: 4

Temperature (°C)							
	M.C. (%)	dry-bulb	wet-bulb	Air humidity (%)			
	Green	42	39	82			
	50	48	43	74			
	40	48	43	74			
	30	48	43	74			
	15	54	46	63			

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: Requires power.

ASSEMBLING

Nailing / screwing: good but pre-boring necessary Gluing: correct (for interior only)

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 "KOUAMANTI OUDOU". 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

Vehicle or container flooring Ship building (planking and deck)

Industrial or heavy flooring

Heavy carpentry

Sculpture

Exterior panelling

Current furniture or furniture components

Sleepers

Ship building (ribs)

Hydraulic works (fresh water)

Bridges (parts in contact with water or ground)

Sliced veneer

Cabinetwork (high class furniture)

Flooring

Bridges (parts not in contact with water or ground)

Note: Aspidosperma album is recommended for high class end-uses.

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MAIN LOCAL NAMES

Country Local name Country Local name MY LADY Belize Bolivia **GAVETILLO** Brazil Brazil ARARACANGA ARARAUBA Brazil **JACAMIN** Colombia COPACHI Colombia Guatemala QUILLO CASPI CHICHICA French Guiana KIANTIOUTIOU Guyana SHIBADAN French Guiana KOUMANTI OUDOU Honduras CHAPEL Honduras **CHAPERNA** Mexico **VOLADOR PUMAQUIRO** Panama **ALCARRETO** Peru Suriname NIELILLO NEGRO KROMANTI KOPI Venezuela

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