Family: FABACEAE-CAESALPINIOIDEAE (angiosperm)

Scientific name(s): Peltogyne spp.

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

Color: purple

Sapwood: clearly demarcated

Texture: medium

Grain: straight

Interlocked grain: absent

Note: Purple wood turns to dark brown with light. Possible presence of internal stresses.

PHYSICAL PROPERTIES

MECHANICAL AND ACOUSTIC PROPERTIES

5 to

Log durability: moderate (treatment recommended)

90 cm

10 cm

Diameter: from 50 to

Floats: no

Physical and mechanical properties are based on mature heartwood specimens. These properties can vary greatly depending on origin and growth conditions.

LOG DESCRIPTION

Thickness of sapwood: from

	Mean	Std dev.		Mean	Std dev.	
Specific gravity *:	0,87	0,08	Crushing strength *:	80 MPa	9 MPa	
Monnin hardness *:	7,6	1,4	Static bending strength *:	141 MPa	19 MPa	
Coeff. of volumetric shrinkage:	0,58 %	0,07 %	Modulus of elasticity *:	21250 MPa	2220 MPa	
Total tangential shrinkage (TS):	6,7 %	0,9 %				
Total radial shrinkage (RS):	4,4 %	0,8 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm ²)			
TS/RS ratio:	1,5					
Fiber saturation point:	23 %		Musical quality factor:	168,4 measure	d at 2890 Hz	
Stability: m	oderately 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 2-3 - durable to moderately 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 3 - not in ground contact, outside
Species covering the use class 5:	No
Note:	This species is listed in the European standard NF EN 350-2. Resistance to decay: moderate to good. 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: use not recommended

DRYING

Drying rate: normal to slow	Possible drying	Possible drying schedule: 4				
Risk of distortion: slight risk		Temperature (°C)				
Risk of casehardening: no	M.C. (%)	dry-bulb	wet-bulb	Air humidity (%)		
Risk of checking: slight risk	Green	42	39	82		
Risk of collapse: no	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

Note: Tends to split when nailing.

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 "AMARANTE". 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: C s2 d0

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. Given according to procedures given by European standard NF EN 13501-1 (september 2007). European grading report done by CSTB whith the following number : RA05-0238A

END-USES

Cabinetwork (high class furniture) Sliced veneer Sculpture Ship building (ribs) Exterior joinery Stairs (inside) Glued laminated Interior joinery Musical instruments Tool handles (resilient woods) Note: In the USA, AMARANTE is used to make high class coffins. Current furniture or furniture components Interior panelling Flooring Ship building (planking and deck) Exterior panelling Heavy carpentry Vehicle or container flooring Turned goods Wood-ware

MAIN LOCAL NAMES

Country Brazil (Amazon) Brazil (Amazon) Colombia Guyana French Guiana Suriname Venezuela United States of America Local name GUARABU PAU ROXO TANANEO PURPLEHEART BOIS VIOLET PURPERHART ZAPATERO AMARANTH

Brazil (Amazon) Brazil (Amazon) Guyana French Guiana Panama Venezuela Germany

Country

Local name IPE ROXO ROXINHO KOROBORELLI AMARANTE NAZANERO MORADO VIOLETTHOLZ



