

Family: RUTACEAE (angiosperm)

Scientific name(s): Euxylophora paraensis

Commercial restriction: no commercial restriction

## WOOD DESCRIPTION

Color: yellow  
Sapwood: not clearly demarcated  
Texture: fine  
Grain: straight or interlocked  
Interlocked grain: slight

Note: Wood bright yellow becoming yellowish light brown with air.

## LOG DESCRIPTION

Diameter: from 40 to 80 cm  
Thickness of sapwood: from 3 to 5 cm  
Floats: no  
Log durability: good

## PHYSICAL 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>	<u>Std dev.</u>
Specific gravity *:	0,81	
Monnin hardness *:	5,5	
Coeff. of volumetric shrinkage:	0,61 %	
Total tangential shrinkage (TS):	6,5 %	
Total radial shrinkage (RS):	5,7 %	
TS/RS ratio:	1,1	
Fiber saturation point:	21 %	
Stability:	poorly stable	

## MECHANICAL AND ACOUSTIC PROPERTIES

	<u>Mean</u>	<u>Std dev.</u>
Crushing strength *:	80 MPa	
Static bending strength *:	119 MPa	
Modulus of elasticity *:	19460 MPa	
(*: at 12% moisture content, with 1 MPa = 1 N/mm <sup>2</sup> )		
Musical quality factor:	141,8	measured at 2715 Hz

## 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: heartwood durable but sapwood not clearly demarcated

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

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

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

Species covering the use class 5: No

Note: This species is listed in the European standard NF EN 350-2.

The possible presence of few demarcated sapwood may have an influence on the expected durability. 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: requires appropriate 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: slight risk

Risk of casehardening: yes

Risk of checking: high risk

Risk of collapse: no

Note: Risks of cracks and casehardening, especially for thickness > 41 mm.

Possible drying schedule: 4

M.C. (%)	Temperature (°C)		Air humidity (%)
	dry-bulb	wet-bulb	
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: normal

Sawteeth recommended: ordinary or alloy steel

Cutting tools: ordinary

Peeling: no information available

Slicing: nood

Note: Planing and sanding require care in presence of interlocked grain.

## ASSEMBLING

Nailing / screwing: good

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 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)

Flooring

Interior joinery

Wood-ware

Exterior panelling

Sculpture

Bridges (parts in contact with water or ground)

Sleepers

Vehicle or container flooring

Sliced veneer

Current furniture or furniture components

Exterior joinery

Stairs (inside)

Interior panelling

Heavy carpentry

Bridges (parts not in contact with water or ground)

Hydraulic works (fresh water)

Turned goods

Tool handles (resilient woods)

## MAIN LOCAL NAMES

<u>Country</u>	<u>Local name</u>	<u>Country</u>	<u>Local name</u>
Brazil (Amazon)	AMARELO CETIM	Brazil (Amazon)	AMARETAO
Brazil (Amazon)	MUIRATAUA	Brazil (Amazon)	PAU AMARELO
Brazil (Amazon)	PAU CETIM	Brazil (Amazon)	PEQUIA CETIM

