

Family: SAPOTACEAE (angiosperm)

Scientific name(s): Chrysophyllum lucentifolium

Planchonella pachycarpa (synonymous)

Pouteria pachycarpa (synonymous)

Syzygiopsis pachycarpa (synonymous)

Commercial restriction: no commercial restriction

## WOOD DESCRIPTION

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

## LOG DESCRIPTION

Diameter:  
Thickness of sapwood:  
Floats: no  
Log durability: low (must be treated)

## 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 *:	0,91	
Monnin hardness *:	7,7	
Coeff. of volumetric shrinkage:	0,65 %	
Total tangential shrinkage (TS):	11,6 %	
Total radial shrinkage (RS):	6,9 %	
TS/RS ratio:	1,7	
Fiber saturation point:	28 %	
Stability:	moderately stable to poorly stable	

## MECHANICAL AND ACOUSTIC PROPERTIES

	<u>Mean</u>	<u>Std dev.</u>
Crushing strength *:	79 MPa	
Static bending strength *:	145 MPa	
Modulus of elasticity *:	20600 MPa	
(*: at 12% moisture content, with 1 MPa = 1 N/mm <sup>2</sup> )		
Musical quality factor:	109,1 measured at 2995 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 4 - poorly durable  
Dry wood borers: susceptible - sapwood not or slightly demarcated (risk in all the wood)  
Termites (according to E.N. standards): class S - susceptible  
Treatability (according to E.N. standards): class 2 - moderately permeable  
Use class ensured by natural durability: class 1 - inside (no dampness)  
Species covering the use class 5: No

## REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: requires appropriate preservative treatment  
In case of risk of temporary humidification: requires appropriate preservative treatment  
In case of risk of permanent humidification: use not recommended

## DRYING

Drying rate: normal

Risk of distortion: high risk

Risk of casehardening: no

Risk of checking: slight risk

Risk of collapse: no

Possible drying schedule: 6

M.C. (%)	Temperature (°C)		Air humidity (%)
	dry-bulb	wet-bulb	
Green	42	41	94
50	48	43	74
30	54	46	63
20	60	51	62
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: 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: correct

Note: Risks of splits when nailing or screwing; pre-boring recommended.

## 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

Heavy carpentry

Cabinetwork (high class furniture)

Interior panelling

Turned goods

Flooring

Interior joinery

Sliced veneer

Tool handles (resilient woods)

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**MAIN LOCAL NAMES**

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CountryLocal name

Brazil	ABIU CASCA
Brazil	ABIURANA AMARELA
Brazil	GOIABAO

CountryLocal name

Brazil	ABIURANA
Brazil	ABIURANA GOIABA
Brazil	GOYABAO

