

Family: THEACEAE (angiosperm)

Scientific name(s): Tetramerista glabra

Commercial restriction: no commercial restriction

## WOOD DESCRIPTION

Color: light brown  
Sapwood: not clearly demarcated  
Texture: medium  
Grain: straight or interlocked  
Interlocked grain: slight

Note: Wood light yellow to light brown often with pink glints. Presence of red and white deposits in the pores. Unpleasant odour when green. Grain sometimes oblique.

## LOG DESCRIPTION

Diameter: from 60 to 100 cm  
Thickness of sapwood: from 4 to 7 cm  
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 *:	0,73	
Monnin hardness *:	3,1	
Coeff. of volumetric shrinkage:	0,61 %	
Total tangential shrinkage (TS):	9,2 %	
Total radial shrinkage (RS):	5,8 %	
TS/RS ratio:	1,6	
Fiber saturation point:	30 %	
Stability:	moderately stable	

## MECHANICAL AND ACOUSTIC PROPERTIES

	<u>Mean</u>	<u>Std dev.</u>
Crushing strength *:	66 MPa	
Static bending strength *:	105 MPa	
Modulus of elasticity *:	16300 MPa	
(*: at 12% moisture content, with 1 MPa = 1 N/mm <sup>2</sup> )		
Musical quality factor:	100,9 measured at 2871 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 3 - moderately 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 3 - poorly 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

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## DRYING

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Drying rate: rapid to normal

Risk of distortion: high risk

Risk of casehardening: no

Risk of checking: high risk

Risk of collapse: no

Note: Drying requires care in order to reduce defects (application of a product against cracks and top weighting of the piles).

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## SAWING AND MACHINING

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Blunting effect: normal

Sawteeth recommended: ordinary or alloy steel

Cutting tools: ordinary

Peeling: not recommended or without interest

Slicing: not recommended or without interest

Note: In planing, surface tends to be fibrous and requires a careful sanding. Slight gumming of sawteeth (resin).

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## ASSEMBLING

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Nailing / screwing: good but pre-boring necessary

Gluing: correct

Note: Pre-boring necessary for thin material in order to avoid splits when nailing.

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## COMMERCIAL GRADING

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Appearance grading for sawn timbers: According to MGR grading rules (2009)

Possible grading: Prime, Select, Standard, Serviceable, Utility

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## FIRE SAFETY

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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.

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## END-USES

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Flooring

Boxes and crates

Current furniture or furniture components

Exterior joinery

Note: Filling is necessary in order to obtain a good finish.

Interior joinery

Vehicle or container flooring

Interior panelling

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**MAIN LOCAL NAMES**

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<u>Country</u>	<u>Local name</u>	<u>Country</u>	<u>Local name</u>
Indonesia	BANG KALIS	Indonesia	PAYA
Indonesia	PUNAL	Peninsular Malaysia	AMAT
Peninsular Malaysia	ENTUYUT	Peninsular Malaysia	TUYOT
Malaysia (islands)	PEDA	Malaysia (islands)	PONGA
Malaysia (islands)	PUNAH	Malaysia (islands)	PUNAM
United Kingdom	PUNAH		

