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Family: SAPINDACEAE (angiosperm)

Scientific name(s): Pometia pinnata

Pometia tomentosa

Commercial restriction: no commercial restriction

#### WOOD DESCRIPTION

# LOG DESCRIPTION

Color: red brown Diameter: from 60 to 90 cm
Sapwood: not clearly demarcated Thickness of sapwood: from 3 to 5 cm

Texture: medium Floats: no

Grain: straight or interlocked Log durability: moderate (treatment recommended)

Interlocked grain: slight

Note: Wood light red becoming red brown with light. Lustrous aspect. Grain sometimes wavy. Presence of brownish resin.

#### 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 *:	0,72	0,08	Crushing strength *:	58 MPa	5 MPa
Monnin hardness *:	5,4	0,6	Static bending strength *:	114 MPa	9 MPa
Coeff. of volumetric shrinkage:	0,54 %	0,08 %	Modulus of elasticity *:	17330 MPa	1480 MPa
Total tangential shrinkage (TS):	10,0 %	0,7 %			
Total radial shrinkage (RS):	6,9 %	0,6 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)		
TS/RS ratio:	1,4				
Fiber saturation point:	30 %		Musical quality factor:	97,5 measured	at 2618 Hz
Stability: 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 3 - moderately durable

Dry wood borers: susceptible - sapwood not or slightly demarcated (risk in all the wood)

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

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

Use class ensured by natural durability: class 2 - inside or under cover (dampness possible)

Species covering the use class 5: No

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

#### 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**

Drying rate: normal to slow Possible drying schedule: 1 Risk of distortion: high risk Temperature (°C) Risk of casehardening: no M.C. (%) wet-bulb Air humidity (%) dry-bulb Risk of checking: high risk Green 40 37 82 40 44 38 68 Risk of collapse: yes 30 59 44 36 Note: Drying must be handled with care in order to reduce 20 46 36 52 defects. Drying veneers is more or less difficult (pocket moisture). 15 49 37 46

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: good

Slicing: not recommended or without interest

Note: Some difficulties due to interlocked or wavy grain. Planed surface sometimes rough. Sawdust may be irritant. Steaming

recommended before peeling.

# **ASSEMBLING**

Nailing / screwing: good
Gluing: correct

#### **COMMERCIAL GRADING**

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

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

# **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**

Flooring Moulding

Veneer for interior of plywood Veneer for back or face of plywood

Boxes and crates Exterior joinery
Interior joinery Interior panelling
Current furniture or furniture components Cooperage

Note: Can be used for exterior joinery with an efficient treatment. Filling is recommended to obtain a good finish.

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# **MAIN LOCAL NAMES**

Local name Country Local name Country Indonesia Peninsular Malaysia KASAI MATOA Malaysia (islands) Peninsular Malaysia SIBU KASAI Papua New Guinea Philippines AGUPANGA TAUN Philippines Philippines MALUGAI TUNGAUI Vietnam Solomon Islands TRUONG TAUN



