MAYAPIS Page 1 of 4

Family: DIPTEROCARPACEAE (angiosperm)

Scientific name(s): Shorea palosapis

Shorea squamata (synonymous)

Commercial restriction: no commercial restriction

Note: MAYAPIS comes from the Philippines; it can be commercialized as WHITE LAUAN when it is pale or as RED LAUAN when it is

quite dark

# WOOD DESCRIPTION

# LOG DESCRIPTION

Color: light red Diameter: from 50 to 130 cm
Sapwood: not clearly demarcated Thickness of sapwood: from 2 to 6 cm

Texture: medium Floats: yes

Grain: interlocked Log durability: moderate (treatment recommended)

Interlocked grain: slight

Note: Brittleheart possible.

Wood pink to light or dark red. Ribbon like aspect on quartersawn, sometimes irregular grain. Presence of fluid 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 *:	0,52	0,04	Crushing strength *:	42 MPa	3 MPa
Monnin hardness *:	1,7	0,4	Static bending strength *:	73 MPa	6 MPa
Coeff. of volumetric shrinkage:	0,43 %	0,03 %	Modulus of elasticity *:	10780 MPa	1012 MPa
Total tangential shrinkage (TS):	7,0 %	0,5 %			
Total radial shrinkage (RS):	2,9 %	0,5 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)		
TS/RS ratio:	2,4				
Fiber saturation point:	29 %		Musical quality factor: 1	22,2 measure	d at 2651 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 S - susceptible

Treatability (according to E.N. standards): class 3 - poorly permeable

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

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

MAYAPIS Page 2/4

#### **DRYING**

Drying rate: normal to slow Possible drying schedule: 6

Risk of distortion: high risk

before kiln drying.

Temperature (°C) wet-bulb Risk of casehardening: yes M.C. (%) dry-bulb Air humidity (%) Risk of checking: slight risk Green 42 41 50 48 43 74 Risk of collapse: no 30 54 46 63 Note: Drying requires care to avoid severe defects. Surface 20 60 51 62 drying up to 30 % moisture content is recommended

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: nood

Note: Veneers are sometimes difficult to dry.

#### **ASSEMBLING**

Nailing / screwing: poor 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

15

60

51

62

22 mm

# **END-USES**

Interior joinery Current furniture or furniture components Veneer for back or face of plywood Ship building (planking and deck)

Moulding

Interior panelling

Veneer for interior of plywood

Sliced veneer Cigar boxes Light carpentry **MAYAPIS** Page 3/4

# **MAIN LOCAL NAMES**

Local name Country Country Local name MAYAPIS

Philippines



