Family: MALVACEAE (angiosperm)

Scientific name(s): Tarrietia javanica

Heritiera javanica (synonymous)

Tarrietia simplicifolia

Heritiera simplicifolia (synonymous)

Commercial restriction: no commercial restriction

Note: Genera Tarrietia and Heritiera are synonymous.

#### WOOD DESCRIPTION

#### LOG DESCRIPTION

Color: brown Diameter: from 60 to 100 cm
Sapwood: clearly demarcated Thickness of sapwood: from 2 to 5 cm

Texture: coarse Floats: yes

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

Interlocked grain: slight

Note: Some logs are not floatable.

The colour varies from light pink to red, darkening to red brown with light. Silver figure clearly visible

### 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 *:	0,68	0,03	Crushing strength *:	59 MPa	4 MPa
Monnin hardness *:	4,0	0,8	Static bending strength *:	101 MPa	16 MPa
Coeff. of volumetric shrinkage:	0,43 %	0,14 %	Modulus of elasticity *:	14450 MPa	2450 MPa
Total tangential shrinkage (TS):	8,7 %	0,9 %			
Total radial shrinkage (RS):	4,5 %	0,7 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)		
TS/RS ratio:	1,9				
Fiber saturation point:	35 %		Musical quality factor:	113,4 measure	d at 2651 Hz
Stability:	moderately 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 4 - poorly durable

Dry wood borers: durable - sapwood demarcated (risk limited to sapwood)

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

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

Resistance to decay low to moderate

# REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: does not require any 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: rapid to normal Possible drying schedule: 4

Risk of distortion: slight risk Temperature (°C) wet-bulb Risk of casehardening: no M.C. (%) dry-bulb Air humidity (%) Risk of checking: high risk Green 42 39 82 50 48 43 74 Risk of collapse: no 48 74 40 43 Note: Drying requires care in order to minimize defects. 30 48 43 74

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: good Slicing: nood

Note: Blunting effect normal to high due to silica content. Tendency to tear on quartersawn.

#### **ASSEMBLING**

Nailing / screwing: good but pre-boring necessary

Gluing: correct

Note: Tends to split when nailing.

#### **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

54

46

63

22 mm.

## **END-USES**

Veneer for interior of plywood

Sliced veneer

Current furniture or furniture components

Interior joinery Exterior joinery Light carpentry Formwork

Cabinetwork (high class furniture)

Note: Finishing quite good with filling.

Veneer for back or face of plywood

Flooring

Interior panelling Blockboard Exterior panelling Glued laminated Boxes and crates MENGKULANG Page 3/4

# **MAIN LOCAL NAMES**

Country Local name Country Local name PALAPI Cambodia DON CHEM Indonesia Indonesia TERALING MAI HAO Laos Laos MAI PO HAO Peninsular Malaysia KEMBANG Peninsular Malaysia MENGKULANG Malaysia (islands) MENGKULANG Philippines Myanmar KANZO LUMBAYAU Thailand CHUMPRAK Vietnam HUYNH



