GERUTU Page 1 of 4

Family: DIPTEROCARPACEAE (angiosperm)

Scientific name(s): Parashorea lucida

Parashorea parvifolia Parashorea smythiesii Parashorea stellata Parashorea densiflora

Commercial restriction: no commercial restriction

Note: It is recommended to use the name "WHITE MERANTI" for the species of the genus Shorea, sub-genus Anthoshorea.

#### WOOD DESCRIPTION

## LOG DESCRIPTION

Color: light brown Diameter: from 80 to 130 cm Sapwood: not clearly demarcated Thickness of sapwood: from 6 to 8 cm

Texture: coarse Floats: no

Grain: interlocked Log durability: moderate (treatment recommended)

Interlocked grain: slight

Note: Wood darkens with light. Presence of solidified white resin canals.

#### 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.

Mean Std dev. Std dev. Mean Specific gravity \*: 0.68 Crushing strength \*: 58 MPa Static bending strength \*: Monnin hardness \*: 91 MPa 3.4 Coeff. of volumetric shrinkage: 0,53 % Modulus of elasticity \*: 14710 MPa Total tangential shrinkage (TS): 8,0 % Total radial shrinkage (RS): 3,8 % (\*: at 12% moisture content, with 1 MPa = 1 N/mm<sup>2</sup>) TS/RS ratio: 2.1 Fiber saturation point: 26 % Musical quality factor: 123,8 measured at 2953 Hz

Stability: moderately stable to stable

Note: Specific gravity varies from 0,60 to 0,80.

#### 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

GERUTU Page 2/4

#### **DRYING**

Drying rate: slow
Risk of distortion: slight risk
Risk of casehardening: no

Risk of checking: slight risk Risk of collapse: no

Note: Risks of checks, especially for thick boards.

#### **SAWING AND MACHINING**

Blunting effect: normal

Sawteeth recommended: ordinary or alloy steel

Cutting tools: ordinary
Peeling: good
Slicing: nood

Note: Risks of tearing. Keep sharp tools to obtain a good surface.

## **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**

Light carpentry
Interior panelling
Arched goods
Sliced veneer

Veneer for interior of plywood

Boxes and crates

Interior joinery
Flooring
Current furniture or furniture components
Vehicle or container flooring
Veneer for back or face of plywood

GERUTU Page 3/4

# **MAIN LOCAL NAMES**

Country Local name Country Local name WHITE MERANTI \* India TAVOY WOOD Indonesia Peninsular Malaysia HEAVY WHITE SERAYA Laos MAI HAO Peninsular Malaysia MERUYUN Peninsular Malaysia URAT MATA BATU Peninsular Malaysia URAT MATA BUKIT Peninsular Malaysia URAT MATA DAUN KECHIL Malaysia (islands) GERUTU Malaysia (islands) GERUTU PASIR MERANTI GERUTU Malaysia (islands) Thailand KHAI KHIEO



