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Family: APOCYNACEAE (angiosperm)

Scientific name(s): Dyera costulata

Dyera polyphylla

Dyera lowii (synonymous)

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: light yellow Diameter: from 80 to 120 cm

Sapwood: not demarcated Thickness of sapwood:

Texture: fine Floats: yes

Grain: straight Log durability: low (must be treated)

Interlocked grain: absent

Note: Brittleheart.

Wood cream white to light yellow. Frequent presence of large latex 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.

Std dev. Std dev. Mean Mean Specific gravity *: 0.45 Crushing strength *: 27 MPa Monnin hardness *: 1,6 Static bending strength *: 45 MPa Coeff. of volumetric shrinkage: Modulus of elasticity *: 10040 MPa 0.35 % Total tangential shrinkage (TS): 5,5 % Total radial shrinkage (RS): 2.3 % (*: at 12% moisture content, with 1 MPa = 1 N/mm²) TS/RS ratio: 2.4 Fiber saturation point: 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 5 - not 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 1 - easily 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

Drying rate: rapid Possible drying schedule: 2

Risk of distortion: no risk or very slight risk

Temperature (°C) Risk of casehardening: no M.C. (%) dry-bulb wet-bulb Air humidity (%) Risk of checking: slight risk Green 50 47 84 40 50 45 75 Risk of collapse: no 30 47 55 67 Note: Risks of surface checks due to latex canals. Risks of 20 70 55 47 blue stain. Pocket moisture in thick material. 15 75 58 44

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: The latex may clog sawteeth. Keep sharp cutting edges in order to obtain a smooth surface.

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 2000). It concerns structural graded timber in vertical was with mean density upper 0.25 and thickness upper

2009). It concerns structural graded timber in vertical uses with mean density upper 0.35 and thickness upper

22 mm

END-USES

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

Boxes and crates Moulding
Interior joinery Interior panelling

Blockboard Pencils

Matches Current furniture or furniture components

Sliced veneer Sculptur

Note: Can be used as substitute for OBECHE (Triplochiton scleroxylon) and POPLAR (Populus spp.).

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MAIN LOCAL NAMES

Country Local name Country Local name Indonesia **DJELUTONG** Indonesia **JELUTONG** Indonesia MELABUWAI Peninsular Malaysia ANDJAROETOENG Peninsular Malaysia Peninsular Malaysia **JELUTONG** JELUTONG BUKIT Peninsular Malaysia JELUTONG PAYA Peninsular Malaysia LETOENG Peninsular Malaysia PANTOENG Malaysia (islands) **JELUTONG**

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