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Family: LYTHRACEAE (angiosperm)

Scientific name(s): Duabanga grandiflora

Duabanga moluccana

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: light brown Diameter: from 60 to 90 cm

Sapwood: not demarcated Thickness of sapwood: Texture: coarse Floats: yes

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

Interlocked grain: slight

Note: Wood light yellow to light brown

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.	Mean Std dev.
Specific gravity *:	0,50		Crushing strength *: 39 MPa
Monnin hardness *:	1,6		Static bending strength *: 64 MPa
Coeff. of volumetric shrinkage:	0,44 %		Modulus of elasticity *: 9120 MPa
Total tangential shrinkage (TS):	6,7 %		
Total radial shrinkage (RS):	3,5 %		(*: at 12% moisture content, with 1 MPa = 1 N/mm²)
TS/RS ratio:	1,9		
Fiber saturation point:	27 %		Musical quality factor: 104,3 measured at 2403 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 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 2 - moderately 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: 6

Risk of distortion: slight risk

Temperature (°C) wet-bulb Risk of casehardening: no M.C. (%) dry-bulb Air humidity (%) Risk of checking: slight risk Green 42 41 94 50 48 43 74 Risk of collapse: no 30 54 46 63 Note: Sometimes, moderate risks of cracks and distortions. 20 60 51 62 15 60 51 62

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: Surface sometimes fuzzy. Keep sharp tools. Filling is necessary to obtain a good finish.

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

Turned goods

22 mm.

END-USES

Floats

Moulding Interior joinery

Veneer for interior of plywood Interior panelling

Veneer for back or face of plywood Boxes and crates Sliced veneer Current furniture or furniture components Fiber or particle boards Blockboard Pulp Matches

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MAIN LOCAL NAMES

Country Local name Country Local name India LAMPATI RAMDALA Indonesia KALAM Peninsular Malaysia Peninsular Malaysia TAGAHAS MAGAS Malaysia (islands) Malaysia (islands) MAGASAWITH PHAY-SUNG Myanmar MYAUKNGO Papua New Guinea DUABANGA Philippines Thailand LOKTOB LINKWAI Thailand PHAY Vietnam PHAY

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