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Family: GONYSTYLACEAE (angiosperm)

Scientific name(s): Gonystylus spp.

Commercial restriction: species mentioned in Appendix II (see note)

Note: The Gonystylus bancanus species is the most commonly marketed.

All RAMIN species are listed in CITES (Convention on International Trade in Endangered Species of wild fauna and flora), appendix 2 and in the European Union Regulation, appendix B. Parts of wood and wood-made products which are regulated are defined by a note: all parts and products. To trade these parts and products, the exporting or re-exporting country must

emit a CITES permit or certificate and an importation permit is compulsory to import within the EU.

WOOD DESCRIPTION

LOG DESCRIPTION

Color: light yellow Diameter: from 50 to 70 cm

Sapwood: not demarcated Thickness of sapwood:

Texture: fine Floats: yes

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

Interlocked grain: slight

Note: Heart shakes in some logs.

Wood cream white to light yellow. Unpleasant odour when green. Presence of tension wood.

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.		<u>Mean</u>	Std dev.
Specific gravity *:	0,66	0,04	Crushing strength *:	67 MPa	6 MPa
Monnin hardness *:	3,2	0,2	Static bending strength *:	112 MPa	6 MPa
Coeff. of volumetric shrinkage:	0,60 %	0,06 %	Modulus of elasticity *:	19020 MPa	2200 MPa
Total tangential shrinkage (TS):	9,1 %	0,8 %			
Total radial shrinkage (RS):	4,9 %	0,6 %	(*: at 12% moisture con	tent, with 1 M	Pa = 1 N/mm²)
TS/RS ratio:	1,9				
Fiber saturation point:	28 %		Musical quality factor: 1	108,5 measure	d at 3052 Hz
Stability:	r: moderately stable to poorly 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

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

Very prone to blue stain.

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: normal to slow Possible drying schedule: 3

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 60 56 81 30 68 58 61 Risk of collapse: no 20 74 60 51 Note: Risks of checks, end checks and blue stain with thick

15 മറ 61 material. 41

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: Risks of splinters in cross cutting.

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

22 mm.

END-USES

Moulding Current furniture or furniture components Veneer for back or face of plywood

Flooring Exterior panelling Rolling shutters

Cabinetwork (high class furniture) Veneer for interior of plywood

Sliced veneer Interior joinery Turned goods

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MAIN LOCAL NAMES

Country Local name Country Local name Indonesia Fiji MAVOTA **AKENIA** MEDANG KERAM Indonesia GARU BUAJA Indonesia Indonesia RAMIN Peninsular Malaysia AHMIN Peninsular Malaysia RAMIN Peninsular Malaysia RAMIN TELUR Malaysia (islands) MELAWIS Malaysia (islands) RAMIN BATU Philippines LANUTAN BAGIO Solomon Islands **AINUNURA** Solomon Islands Solomon Islands **FUNGUNIGALO** LATAREKO Solomon Islands Germany RAMIN PETATA France RAMIN Italia RAMIN



