

Family: HYPERICACEAE (angiosperm)

Scientific name(s): Cratoxylon arborescens

Cratoxylon glaucum

Cratoxylon spp.

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

Color: dark red
Sapwood: clearly demarcated
Texture: coarse
Grain: straight or interlocked
Interlocked grain: slight

Note: Risks of splitting during felling (growth stresses). Brittleheart. Wood red brown to dark red. Lustrous surface.

LOG DESCRIPTION

Diameter: from 80 to 90 cm
Thickness of sapwood: from 4 to 6 cm
Floats: yes
Log durability: moderate (treatment recommended)

PHYSICAL 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>	<u>Std dev.</u>
Specific gravity *:	0,45	
Monnin hardness *:	1,2	
Coeff. of volumetric shrinkage:	0,44 %	
Total tangential shrinkage (TS):	7,7 %	
Total radial shrinkage (RS):	3,5 %	
TS/RS ratio:	2,2	
Fiber saturation point:	31 %	
Stability:	stable	

MECHANICAL AND ACOUSTIC PROPERTIES

	<u>Mean</u>	<u>Std dev.</u>
Crushing strength *:	37 MPa	
Static bending strength *:	67 MPa	
Modulus of elasticity *:	10830 MPa	
(*: at 12% moisture content, with 1 MPa = 1 N/mm ²)		
Musical quality factor:	101,6	measured at 2589 Hz

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: durable - sapwood demarcated (risk limited to sapwood)
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: 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

Risk of distortion: slight risk

Risk of casehardening: no

Risk of checking: slight risk

Risk of collapse: no

Possible drying schedule: 2

M.C. (%)	Temperature (°C)		Air humidity (%)
	dry-bulb	wet-bulb	
Green	50	47	84
40	50	45	75
30	55	47	67
20	70	55	47
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: not recommended or without interest

Note: Sometimes blunting effect. Surface occasionally rough in places. Veneers tend to tear.

ASSEMBLING

Nailing / screwing: poor

Gluings: 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

Veneer for interior of plywood

Interior joinery

Fiber or particle boards

Boxes and crates

Current furniture or furniture components

Veneer for back or face of plywood

Interior panelling

Blockboard

Moulding

MAIN LOCAL NAMES

<u>Country</u>	<u>Local name</u>	<u>Country</u>	<u>Local name</u>
Indonesia	GERUNGANG	Indonesia	MAPAT
Indonesia	MULU	Indonesia	SULUNUS
Peninsular Malaysia	SERUNGAN	Malaysia (islands)	GERONGGANG
Malaysia (islands)	GONGGANG		

