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Family: DIPTEROCARPACEAE (angiosperm)

Scientific name(s): Anisoptera spp.

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: orange - yellow Diameter: from 60 to 150 cm
Sapwood: not clearly demarcated Thickness of sapwood: from 5 to 8 cm

Texture: coarse Floats: yes

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

Interlocked grain: slight

Note: Heartwood orangey yellow darkening to golden brown. Presence of whitish resin veins.

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.	<u>Me</u>	<u>ean</u>	Std dev.
Specific gravity *:	0,63	0,06	Crushing strength *:	46 MPa	8 MPa
Monnin hardness *:	2,6	0,7	Static bending strength *:	83 MPa	16 MPa
Coeff. of volumetric shrinkage:	0,52 %	0,10 %	Modulus of elasticity *: 129	930 MPa	1507 MPa
Total tangential shrinkage (TS):	8,8 %	1,2 %			
Total radial shrinkage (RS):	3,7 %	0,8 %	(*: at 12% moisture content	i, with 1 Mi	$Pa = 1 N/mm^2$
TS/RS ratio:	2,4				
Fiber saturation point:	32 %		Musical quality factor: 113,	4 measure	d at 2665 Hz
Stability:	moderately stable to stal	ble			

Note: Hardness varies from soft to fairly hard.

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 4 - poorly durable

Dry wood borers: susceptible - sapwood not or slightly demarcated (risk in all the wood)

Termites (according to E.N. standards): class M - moderately durable

Treatability (according to E.N. standards): class 3-4 - poorly or not 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.

REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: requires appropriate preservative treatment

In case of risk of temporary humidification: use not recommended In case of risk of permanent humidification: use not recommended MERSAWA Page 2/4

DRYING

Drying rate: slow Possible drying schedule: 2

Risk of distortion: 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 55 47 67 Note: Drying requires care in order to avoid pocket moisture. 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: high

Sawteeth recommended: stellite-tipped Cutting tools: tungsten carbide

Peeling: good Slicing: nood

Note: Resin exudation in steaming. Tendency to tearing on quartersawn.

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

Glued laminated

Veneer for interior of plywood

Boxes and crates Interior joinery

Moulding Turned goods

Note: Filling is recommended to obtain a good finish.

Flooring

Veneer for back or face of plywood

Formwork

Current furniture or furniture components

Interior panelling Sliced veneer MERSAWA Page 3/4

MAIN LOCAL NAMES

Country	<u>Local name</u>	<u>Country</u>	Local name
Cambodia	PHDIEK	Indonesia	MERSAWA
Laos	MAI BAK	Peninsular Malaysia	PENGIRAN
Malaysia (islands)	MERSAWA	Myanmar	KAUNGHMU
Papua New Guinea	MERSAWA	Philippines	PALOSAPIS
Thailand	KRABAK	Thailand	PIK
Vietnam	VEN-VEN	France	VEN-VEN
United Kingdom	KRABAK	United States of America	BELLA ROSA



