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Family: FABACEAE-MIMOSOIDEAE (angiosperm)

Scientific name(s): Parkia multijuga

Parkia nitida Parkia pendula Parkia ulei

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Diameter: from 60 to 90 cm Color: creamy white

Sapwood: not demarcated Thickness of sapwood: Texture: medium Floats: no

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

Interlocked grain: slight

Note: Sometimes, heartwood presents very large light brown 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>Mean</u>	Std dev.
Specific gravity *:	0,47	0,11	Crushing strength *:	38 MPa	9 MPa
Monnin hardness *:	2,3	0,8	Static bending strength *:	67 MPa	16 MPa
Coeff. of volumetric shrinkage:	0,43 %	0,07 %	Modulus of elasticity *:	11510 MPa	2294 MPa
Total tangential shrinkage (TS):	7,0 %	1,2 %			
Total radial shrinkage (RS):	2,8 %	0,9 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm ²)		
TS/RS ratio:	2,5				
Fiber saturation point:	29 %		Musical quality factor:	109,2 measure	d at 2773 Hz
Stability: p	oorly 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 to normal Possible drying schedule: 1

Risk of distortion: high risk

Temperature (°C) wet-bulb Risk of casehardening: no M.C. (%) dry-bulb Air humidity (%) Risk of checking: high risk Green 40 37 82 40 44 38 68 Risk of collapse: no 30 59 44 36 Note: A moderate drying schedule must be used in order to 20 46 36 52 reduce the risks of distortion. Possible risks of casehardening and collapse. 15 49 37 46

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: Fuzzy surface.

ASSEMBLING

Nailing / screwing: poor Gluing: correct

COMMERCIAL GRADING

Appearance grading for sawn timbers: According to NHLA grading rules (January 2007)

Possible grading: FAS, Select, Common 1, Common 2, Common 4

In French Guiana, the local name of this species is "DODOMISSINGA". Grading is done according to local rules

"Bois guyanais classés".

Possible grading: Choix 1, choix 2, choix 3, choix 4

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

Boxes and crates Interior panelling Moulding

Fiber or particle boards

Formwork Interior joinery

Current furniture or furniture components

Blockboard

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MAIN LOCAL NAMES

Country Local name Country Local name Brazil FAVA ARARA TUCUPI Brazil FAVA BOLOTA Brazil **FAVEIRA** Brazil **PARICA** Brazil VISGUEIRO Colombia HUARANGO Colombia RAYO Ecuador TANGAMA Guyana BLACK MANARIBALLI Guyana **IPANAI** Guyana UYA French Guiana DODOMISSINGA

French Guiana KOUATAKAMAN Peru GOMA PASHACO Suriname KWATAKAMA Venezuela CASCARON



