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Family: FABACEAE-MIMOSOIDEAE (angiosperm)

Scientific name(s): Piptadeniastrum africanum Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: yellow brown Diameter: from 60 to 120 cm
Sapwood: clearly demarcated Thickness of sapwood: from 5 to 15 cm

Texture: coarse Floats: no

Grain: interlocked Log durability: moderate (treatment recommended)

Interlocked grain: marked

Note: Wood light brown to golden brown, sometimes ribbon like aspect on quartersawn. Ammoniac odour when green or with

rewetted woods

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 *:	0,70	0,06	Crushing strength *:	57 MPa	6 MPa
Monnin hardness *:	4,4	1,6	Static bending strength *:	98 MPa	13 MPa
Coeff. of volumetric shrinkage:	0,55 %	0,10 %	Modulus of elasticity *:	15190 MPa	2027 MPa
Total tangential shrinkage (TS):	8,5 %	1,2 %			
Total radial shrinkage (RS):	3,8 %	0,6 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)		
TS/RS ratio:	2,2				
Fiber saturation point:	27 %		Musical quality factor:	106,9 measure	d at 2556 Hz
Stability:	moderately stable				

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 3 - moderately durable

Dry wood borers: durable - sapwood demarcated (risk limited to sapwood)

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

Treatability (according to E.N. standards): class 3 - poorly permeable

Use class ensured by natural durability: class 2 - inside or under cover (dampness possible)

Species covering the use class 5: No

Note: Resistance to fungi: moderate to good. Heart not resistant.

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

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DRYING

Possible drying schedule: 4 Risk of distortion: high risk Temperature (°C) Risk of casehardening: yes M.C. (%) dry-bulb wet-bulb Air humidity (%) Risk of checking: high risk Green 42 39 82 50 48 43 74 Risk of collapse: no 48 74 40 43 Note: To reduce distortions, surface drying is recommended

30

15

48

54

43

46

74

63

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.

prior to kiln drying.

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.

Drying rate: normal to slow

SAWING AND MACHINING

Blunting effect: normal

Sawteeth recommended: ordinary or alloy steel

Cutting tools: ordinary Peeling: good

Slicing: not recommended or without interest

Note: Very irritant sawdust. Quartersawn is recommended in order to reduce the risks of distortion.

ASSEMBLING

Nailing / screwing: good Gluing: correct

Note: Risks of end checks

COMMERCIAL GRADING

Appearance grading for sawn timbers: According to SATA grading rules (1996)

For the "General Purpose Market"

Possible grading for square edged timbers: choix I, choix II, choix IV

Possible grading for short length lumbers: choix I, choix II Possible grading for short length rafters: choix I, choix II, choix III

For the "Special Market":

Possible grading for strips and small boards (ou battens): choix I, choix III

Possible grading for rafters: choix I, choix II, choix III

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

Wood frame house Heavy carpentry Vehicle or container flooring Exterior panelling Industrial or heavy flooring Stairs (inside)

Glued laminated Current furniture or furniture components Veneer for interior of plywood Veneer for back or face of plywood

Note: Can be used as substitute for OAK (Quercus spp.) for some end-uses. The unpleasant odour of this wood when green, or rewetted, must be taken into account according to the type of end-uses and the destination.

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MAIN LOCAL NAMES

Country Local name Country Local name N'SINGA Benin **GLENREN** Angola Cameroon ATUI Congo N'SINGA DABEMA Ivory Coast Gabon TOUM Ghana DAHOMA **Equatorial Guinea** TOM Nigeria Liberia MBELI AGBOIN Nigeria **EKHIMI** Uganda **MPEWERE** Central African Republic MOKOUNGOU Democratic Republic of the Congo BOKUNGU Democratic Republic of the Congo LIKUNDU Sierra Leone MBELE-GULI Netherlands BUKUNGU United Kingdom DAHOMA



