IATANDZA Page 1of 4

Family: FABACEAE-MIMOSOIDEAE (angiosperm)

Scientific name(s): Albizia ferruginea

Albizia angolensis (synonymous)

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: red brown Diameter: from 60 to 90 cm Sapwood: clearly demarcated Thickness of sapwood: from 3 to 6 cm

Texture: coarse Floats: no

Grain: interlocked Log durability: moderate (treatment recommended)

Interlocked grain: slight

Note: Heartwood yellow brown to dark red brown, with golden glints. Grain sometimes highly interlocked.

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 *:	0,60	0,05	Crushing strength *:	50 MPa	5 MPa
Monnin hardness *:	3,4	0,8	Static bending strength *:	81 MPa	14 MPa
Coeff. of volumetric shrinkage:	0,43 %	0,03 %	Modulus of elasticity *:	13000 MPa	1488 MPa
Total tangential shrinkage (TS):	4,9 %	0,3 %			
Total radial shrinkage (RS):	2,8 %	0,4 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)		
TS/RS ratio:	1,8				
Fiber saturation point:	24 %		Musical quality factor:	116,4 measure	d at 2556 Hz
Stability:					

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 2 - 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 3 - not in ground contact, outside

Species covering the use class 5: No

Note: According to the European standard NF EN 335, performance length might be modified by the intensity of end-use exposition.

REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: does not require any preservative treatment

In case of risk of temporary humidification: does not require any preservative treatment

In case of risk of permanent humidification: use not recommended

IATANDZA Page 2/4

DRYING

Drying rate: slow Possible drying schedule: 2

Risk of distortion: slight risk

Temperature (°C) wet-bulb Risk of casehardening: no M.C. (%) Air humidity (%) dry-bulb Risk of checking: slight risk Green 50 47 84 40 50 45 75 Risk of collapse: no 30 55 47 67 Note: Risks of distortion in presence of highly interlocked 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: nood

Note: Irritant sawdust.

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 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, 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

Veneer for interior of plywood

Blockboard Light carpentry Interior joinery

Current furniture or furniture components

Turned goods Exterior panelling

Bridges (parts not in contact with water or ground)

Formwork Sliced veneer

Note: Filling is necessary to obtain a good finish.

Veneer for back or face of plywood

Flooring
Glued laminated
Interior panelling
Boxes and crates
Exterior joinery
Wood frame house
Stairs (inside)

Cabinetwork (high class furniture)

IATANDZA Page 3/4

MAIN LOCAL NAMES

Country Local name Country Local name AGLA NYINFUN Angola ZANZANGUE Benin Cameroon **EVOUVOUS** SIFOU-SIFOU Congo AVIEMFO-SAMINA Ivory Coast YATANDZA Ghana Ghana OKURO Nigeria AYINRE-OGO Uganda MUGAVU Uganda NONGO Democratic Republic of the Congo ELONGWAMBA Democratic Republic of the Congo OKURU United Kingdom WEST AFRICAN ALBIZIA



