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Family: FABACEAE-CAESALPINIOIDEAE (angiosperm)

Scientific name(s): Amphimas ferrugineus

Amphimas pterocarpoides

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: yellow brown Diameter: from 80 to 100 cm
Sapwood: not clearly demarcated Thickness of sapwood: from 5 to 8 cm

Texture: coarse Floats: yes

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

Interlocked grain: absent

Note: Heartwood cream white to yellow brown. The presence of parenchyma bands regularly spaced gives an aesthetic aspect to

sawnwoods.

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 *:	0,82	0,06	Crushing strength *:	73 MPa	6 MPa
Monnin hardness *:	5,8	1,2	Static bending strength *:	128 MPa	8 MPa
Coeff. of volumetric shrinkage:	0,69 %	0,05 %	Modulus of elasticity *:	16830 MPa	1420 MPa
Total tangential shrinkage (TS):	10,8 %	0,9 %			
Total radial shrinkage (RS):	6,4 %	0,4 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)		
TS/RS ratio:	1,7				
Fiber saturation point:	30 %		Musical quality factor:	101,7 measure	d at 2852 Hz
Stability, moderately stable to pearly stable					

Stability: moderately stable to poorly stable

Note: Hardness varies from fairly hard to 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 3 - moderately 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 4 - not permeable

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

Species covering the use class 5: No

Note: This species is listed in the European standard NF EN 350-2. Prone to blue stain.

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

 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
 41
 94

 Risk of collapse:
 no
 50
 48
 43
 74

50 48 43 74 30 54 46 63 Note: Initial surface drying prior to kiln drying 20 60 51 62 recommended. 15 60 51 62

Possible drying schedule: 6

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.

Drying rate: slow

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: not recommended or without interest

Slicing: nood

Note: Sawing may require power. Grain tearing in machining

ASSEMBLING

Nailing / screwing: good but pre-boring necessary

Gluing: correct

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 II, 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

Interior joinery

Flooring

Current furniture or furniture components

Moulding

Sliced veneer
Interior panelling

Wood frame house
Boxes and crates

Note: Aspect quite similar to EYONG (Eribroma oblonga).

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MAIN LOCAL NAMES

Country Local name Country Local name EDJIN Cameroon EDZIL Cameroon Congo MUIZI Ivory Coast LATI Gabon Ghana EDZUI YAYA Democratic Republic of the Congo BOKANGA



