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Family: COMBRETACEAE (angiosperm)

Scientific name(s): Terminalia ivorensis Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: yellow Diameter: from 65 to 85 cm
Sapwood: not clearly demarcated Thickness of sapwood: from 2 to 5 cm

Texture: medium Floats: yes

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

Interlocked grain: slight

Note: Brittleheart and possible wind shakes.

Wood yellow more or less light, sometimes with greenish shades. Ribbon like aspect due to interlocked grain.

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 *:	0,50	0,07	Crushing strength *:	44 MPa	6 MPa
Monnin hardness *:	1,9	0,7	Static bending strength *:	71 MPa	12 MPa
Coeff. of volumetric shrinkage:	0,37 %	0,06 %	Modulus of elasticity *:	11350 MPa	2185 MPa
Total tangential shrinkage (TS):	5,2 %	0,9 %			
Total radial shrinkage (RS):	3,6 %	0,7 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)		
TS/RS ratio:	1,4				
Fiber saturation point:	27 %		Musical quality factor: 125,4 measured at 2492 Hz		
Stability: st	able				

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 2-3 - durable to moderately 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 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.

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

Risk of distortion: no risk or very slight risk

Risk of casehardening: no

Risk of checking: no risk or very slight risk

Risk of collapse: no

Possible drying schedule: 2

Temperature (°C) M.C. (%) wet-bulb Air humidity (%) dry-bulb Green 50 47 84 40 50 45 75 30 47 55 67 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: In machining, risk of tearing due to interlocked grain. Sawdust may cause irritations. Filling is necessary to obtain a good

finish.

ASSEMBLING

Nailing / screwing: good
Gluing: correct

Note: Gluing must be done with care: wood is acid.

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

Exterior joinery
Interior panelling
Exterior panelling
Exterior panelling

Moulding Current furniture or furniture components

Veneer for interior of plywood Veneer for back or face of plywood

Sliced veneer Flooring
Stairs (inside) Turned goods
Rolling shutters Seats

Light carpentry Glued laminated

Note: FRAMIRE contains yellow tannins that may stain with humidity. For external end-uses, paint is preferable to varnish.

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MAIN LOCAL NAMES

Country Local name Country Local name IDIGBO LIDIA Benin Cameroon Ivory Coast FRAMIRE Ghana **EMERI** Liberia BLACK AFARA BAJII Nigeria Nigeria IDIGBO Sierra Leone BAJII United Kingdom IDIGBO



