Family: COMBRETACEAE (angiosperm)

Scientific name(s): Terminalia superba

Commercial restriction: no commercial restriction

#### WOOD DESCRIPTION

#### Color: light yellow

Sapwood: not demarcated

Texture: medium

Grain: straight or interlocked

#### LOG DESCRIPTION

Diameter: from 60 to 100 cm

Thickness of sapwood:

Floats: yes

Log durability: low (must be treated)

Interlocked grain: slight

Note: Sometimes brittleheart. Some logs have a black greyish heartwood, more or less veined.

#### 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.

	Mean	Std dev.		Mean	Std dev.
Specific gravity *:	0,54	0,07	Crushing strength *:	47 MPa	8 MPa
Monnin hardness *:	2,4	0,9	Static bending strength *:	80 MPa	16 MPa
Coeff. of volumetric shrinkage:	0,42 %	0,07 %	Modulus of elasticity *:	11750 MPa	2480 MPa
Total tangential shrinkage (TS):	6,1 %	0,9 %			
Total radial shrinkage (RS):	4,3 %	1,1 %	(*: at 12% moisture cor	ntent, with 1 M	Pa = 1 N/mm²)
TS/RS ratio:	1,4				
Fiber saturation point:	28 %		Musical quality factor:	115,6 measure	d at 2740 Hz
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 4 - poorly 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
Note	: This species is listed in the European standard NF EN 350-2. Preservative treatment is sometimes difficult due to a variable permeability (low to good).

#### **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

#### DRYING

Drying rate: rapid to normal	Possible drying schedule: 3			
Risk of distortion: no risk or very slight risk		Temperature (°C)		
Risk of casehardening: no	M.C. (%)	dry-bulb	wet-bulb	Air humidity (%)
Risk of checking: no risk or very slight risk	Green	60	56	81
Risk of collapse: no	30	68	58	61
	20	74	60	51
	15	80	61	41

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: Internal stresses in some logs (usually timbers from plantation). Sometimes, blunting effect quite high.

#### ASSEMBLING

Nailing / screwing: good

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 III, 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 II, 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 Seats Interior panelling Light carpentry Wood frame house Fiber or particle boards Sliced veneer Note: Sawdust may cause allergic reactions during machining. Veneer for back or face of plywood Current furniture or furniture components Interior joinery Moulding Glued laminated Boxes and crates Wood-ware

### MAIN LOCAL NAMES

Country	Local name	Country	Local name
Benin	AZINII	Cameroon	AKOM
Congo	LIMBA	Ivory Coast	FRAKE
Gabon	AKOM	Ghana	OFRAM
Equatorial Guinea	AKOM	Nigeria	AFARA
Nigeria	WHITE AFARA	Central African Republic	N'GANGA
Democratic Republic of the Congo	LIMBA	Sierra Leone	KOJAGEI
France	FRAKE	France	LIMBO
France	NOYER DU MAYOMBE	United States of America	KORINA



