

Family: RHIZOPHORACEAE (angiosperm)

Scientific name(s): Anopyxis klaineana

Commercial restriction: no commercial restriction

## WOOD DESCRIPTION

Color: light brown  
Sapwood: not clearly demarcated  
Texture: medium  
Grain: straight  
Interlocked grain: absent

Note: Wood light brown with pink or ochre shades. Grain sometimes wavy.

## LOG DESCRIPTION

Diameter: from 60 to 100 cm  
Thickness of sapwood:  
Floats: no  
Log durability: low (must be treated)

## PHYSICAL 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>	<u>Std dev.</u>
Specific gravity *:	0,89	0,03
Monnin hardness *:	7,0	3,2
Coeff. of volumetric shrinkage:	0,65 %	0,05 %
Total tangential shrinkage (TS):	10,3 %	1,1 %
Total radial shrinkage (RS):	6,2 %	0,4 %
TS/RS ratio:	1,7	
Fiber saturation point:	30 %	
Stability:	moderately stable	

## MECHANICAL AND ACOUSTIC PROPERTIES

	<u>Mean</u>	<u>Std dev.</u>
Crushing strength *:	75 MPa	10 MPa
Static bending strength *:	132 MPa	16 MPa
Modulus of elasticity *:	20290 MPa	2225 MPa

(\*: at 12% moisture content, with 1 MPa = 1 N/mm<sup>2</sup>)

## 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 5 - not durable

Dry wood borers: susceptible - sapwood not or slightly demarcated (risk in all the wood)

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

Treatability (according to E.N. standards): class 1 - easily permeable

Use class ensured by natural durability: class 1 - inside (no dampness)

Species covering the use class 5: No

Note: 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

## DRYING

Drying rate: slow

Risk of distortion: high risk

Risk of casehardening: no

Risk of checking: high risk

Risk of collapse: no

Possible drying schedule: 5

M.C. (%)	Temperature (°C)		Air humidity (%)
	dry-bulb	wet-bulb	
30	42	41	94
25	42	39	82
20	48	43	74
15	48	43	74

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: stellite-tipped

Cutting tools: tungsten carbide

Peeling: not recommended or without interest

Slicing: nood

Note: Requires power.

## ASSEMBLING

Nailing / screwing: good but pre-boring necessary

Gluing: correct (for interior only)

## 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 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

Industrial or heavy flooring

Heavy carpentry

Interior joinery

Turned goods

Vehicle or container flooring

Exterior joinery

Interior panelling

Sliced veneer

## MAIN LOCAL NAMES

<u>Country</u>	<u>Local name</u>	<u>Country</u>	<u>Local name</u>
Cameroon	NOUDOUGOU	Congo	PAMIEL
Ivory Coast	BODIOA	Gabon	EVAM
Ghana	KOKOTI	Nigeria	EKIAWA
Nigeria	OTUTU	Central African Republic	MOBOMA
Democratic Republic of the Congo	BOBENKUSU	Sierra Leone	KPOMUSI

