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Family: MYRISTICACEAE (angiosperm)

Scientific name(s): Coelocaryon preussii

Commercial restriction: no commercial restriction

#### WOOD DESCRIPTION

### LOG DESCRIPTION

Color: light brown Diameter: from 50 to 80 cm

Sapwood: not demarcated Thickness of sapwood:

Texture: medium Floats: yes

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

Interlocked grain: absent

Note: Sometimes purplish brown veins.

#### 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 *:	0,53	0,06	Crushing strength *: 38 MPa 7 MPa
Monnin hardness *:	1,9	0,5	Static bending strength *: 73 MPa 12 MPa
Coeff. of volumetric shrinkage:	0,44 %	0,11 %	Modulus of elasticity *: 12460 MPa 1488 MPa
Total tangential shrinkage (TS):	6,9 %	0,8 %	
Total radial shrinkage (RS):	3,8 %	0,7 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)
TS/RS ratio:	1,8		
Fiber saturation point:	25 %		Musical quality factor: 117,9 measured at 2791 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 5 - not 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 1 - easily permeable

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

Species covering the use class 5: No

#### 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

Possible drying schedule: 4

RISK OF	distortio	on: no	risk or	very	siignt risk

Risk of casehardening: no
Risk of checking: slight risk
Risk of collapse: no

Temperature (°C)									
	M.C. (%)	dry-bulb	wet-bulb	Air humidity (%)					
	Green	42	39	82					
	50	48	43	74					
	40	48	43	74					
	30	48	43	74					
	15	54	46	63					

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

#### **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**

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

Blockboard Fiber or particle boards Moulding Interior panelling

Interior joinery Current furniture or furniture components

Sliced veneer Wood-ware
Boxes and crates Exterior joinery
Exterior panelling Light carpentry

Glued laminated

Note: Could be used as substitute for OKOUME (Aucoumea klaineana) for plywood.

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# **MAIN LOCAL NAMES**

CountryLocal nameCameroonNOM ETENGGabonEKOUNEEquatorial GuineaEKOUNENigeriaEGBENRINDemocratic Republic of the CongoLOMBA-KUMBI

CountryLocal nameCongoKIKUBI-LOMBAGabonEKUNEquatorial GuineaEKUN

Central African Republic



