Onzabili

Quarter sawn

Flat sawn

Family. Anacardiaceae

Botanical Name(s).

Antrocaryon klaineanum
Antrocaryon micraster
Antrocaryon nannanii

Continent. Africa

CITES. This species is not listed in the CITES Appendices (Washington Convention 2023).

Description of logs

Diameter. From 65 to 120 cm

Thickness of sapwood. -

Floats. Yes

Log durability. Low (treatment necessary)

Description of wood

Colour reference. Pinkish white

Sapwood. Not demarcated

Texture. Medium

Grain. Straight or interlocked

Interlocked grain. Slight

Notes. Heartwood pinkish white to light brown. Grain sometimes wavy.

Physics and mechanics

The properties indicated are for mature wood. These properties may vary significantly depending on the origin and growing conditions of the wood.

Property	Average value
Specific gravity[1]	0.55
Monnin hardness[1]	1.9
Coefficient of volumetric shrinkage	0.45 % per %
Total tangential shrinkage (St)	6.9 %
Total radial shrinkage (Sr)	4.6 %
Ratio St/Sr	1.5
Fibre saturation point	31 %
Thermal conductivity (λ)	0.19 W/(m.K)
Lower heating value	
Crushing strength[1]	40 MPa
Static bending strength[1]	76 MPa
Modulus of elasticity[1]	13,450 MPa

[1] At 12 % moisture content, with 1 MPa = 1 N/mm

Natural durability and preservation

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Resistance to fungi. Class 5 - not durable

Resistance to dry wood borers. Class S - susceptible (risk in all the wood)

Resistance to termites. Class S - susceptible

Treatability. Class 2 - moderately permeable

Use class ensured by natural durability.

Class 1 - inside (no dampness)

Notes. Prone to blue stain.

Requirement of a preservative treatment

Against dry wood borer. Requires appropriate preservative treatment

In case of temporary humidification. Requires appropriate preservative treatment

In case of permanent humidification. Use not recommended

Drying

Drying rate. Rapid to normal

Risk of distorsion. Slight risk

Risk of casehardening. No known specific risk

Risk of checking. Slight risk

Risk of collapse. No known specific risk

Notes.

Suggested drying program.

Phases	Duration (H)	MC (%) probes	T (°C)	Rh (%)	UGL (%)
Prewarm 1		> 50	50	86	16.5
Prewarm 2	3	> 50	52	85	16.0
Drying		> 50	55	82	14.7
		50 - 40	55	80.0	13.8
		40 - 35	55	75.0	12.6
		35 - 30	56	73.0	12.0
		30 - 27	58	67.0	10.5
		27 - 24	60	58.0	8.9
		24 - 21	62	50.0	7.5
		21 - 18	64	45.0	6.8
		18 - 15	65	37.0	5.7
		15 - 12	65	34.0	5.3
		12 - 9	65	28.0	4.5
		9 - 6	65	24.0	4.0
Conditioning	6		58	(3)	(2)
Cooling	(1)		Stop	(3)	(2)

(1)) Cooling: until the temperature inside the kiln no longer exceeds external temperature by more than 30 °C.

(2) UGL = final H% x 0,8 to 0,9.

(3) Subtract RH from the UGL determined in (2) and temperature, using the Hailwood-Horrobin equation.

Sawing and machining

Blunting effect. Normal

Sawteeth recommended. Ordinary or alloy steel

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Cutting tools. Ordinary

Peeling. Good

Slicing. Good

Notes. Sometimes grain tearing. Filling is necessary in order to obtain a good finish.

Assembling

Nailing and screwing. Good

Commercial grading

Appearance grading for sawn timbers.

According to the ATIBT grading rules (2017), the main choices are: FAS (First And Second), n°1 Common and select, n°2 Common (see details of these rules on the ATIBT website).

Visual grading for structural applications

No visual grading for structural applications

Fire safety

Conventional French grading.

Thickness > 14 mm: M3 (moderately inflammable)
Thickness < 14 mm: M4 (easily inflammable)

Euroclasses grading. D-s2, d0

Default grading for solid wood, according to requirements of European standard EN 14081-1+A1 (August 2019). It concerns structural graded timber in vertical uses and ceiling with mean density upper 0.35 and thickness upper 22 mm.

End-uses

- Blockboard
- Boxes and crates
- Current furniture or furniture components
- Glued laminated
- Interior joinery
- Light carpentry
- Moulding
- Seats
- Sliced veneer
- Veneer for back or face of plywood
- Veneer for interior of plywood
- Wood frame house

Notes. Subsitute for OKOUME (*Aucoumea klaineana*) or ILOMBA (*Pycnanthus angolensis*).

Main local names

Country	Local name
Angola	N'gongo
Cameroon	Angonga
Central African Republic	Gongu
Congo	N'gongo
Côte d'Ivoire	Akoua
Democratic Republic of the Congo	Mugongo
Equatorial Guinea	Anguekong
Gabon	Onzabili

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Main local names

Country	Local name
Ghana	Aprokuma
Portugal (importated tropical timber	Mongongo

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