NIOVÉ

Staudtia kamerunensis Warb.

Family: Myristicaceae · Continent: Africa



IDENTIFICATION

Family: Myristicaceae
Botanical names: Staudtia kamerunensis Warb. (Syn. Staudtia gabonensis, Staudtia stipitata)
Continent: Africa
CITES (Washington Convention, 2016): no trade restriction

LOG DESCRIPTION

Diameter: 50 to 90 cm
Sapwood thickness: 8 to 10 cm
Buoyancy: does not float
Durability in forest: good

WOOD DESCRIPTION

Reference colour: reddish brown
Sapwood: clearly demarcated
Texture: fine
Grain: straight
Interlocked grain: absent
Notes: orange yellowish-brown to reddish-brown heartwood with dark streaks. Surface occasionally oily. Grain sometimes wavy.



PHYSICAL & MECHANICAL PROPERTIES

Property	Mean value
Density (1)	**0.88**
Monnin hardness (1)	**7.5**
Volumetric shrinkage coefficient	**0.56% per %**
Total tangential shrinkage (T)	**6.0%**
Total radial shrinkage (R)	**4.6%**
T/R ratio	**1.3**
Fibre saturation point	**24%**
Thermal conductivity (λ)	**0.29 W/(m.K)**
Lower heating value	**19,710 kJ/kg**
Crushing strength (1)	**88 MPa**
Static bending strength (1)	**151 MPa**
Longitudinal modulus of elasticity (1)	**18,510 MPa**

(1) At 12% moisture content, with 1 MPa = 1 N/mm²

NATURAL DURABILITY AND TREATABILITY

Fungi resistance: class 1, very durable (species listed in standard NF EN 350)
Dry wood borer resistance: class D, durable (sapwood distinct, risk limited to sapwood)
Termite resistance: class D, durable · Treatability: class 4, not permeable
Use class covered by natural durability: class 4, in contact with the ground or fresh water
Presence of less durable transition wood. Service life may vary with conditions of use (NF EN 335, May 2013).

PRESERVATIVE TREATMENT

Against dry wood borer attacks: this wood does not require preservative treatment.
Temporary humidification: no preservative treatment required.
Permanent humidification: no preservative treatment required.

DRYING

Drying rate: slow
Risk of distortion: slight
Risk of case hardening: no known risk
Risk of checking: high
Risk of collapse: no known risk
Notes: risk of water pockets; prior air-drying before kiln drying is recommended.
Suggested kiln schedule: no. 8

SAWING AND MACHINING

Blunting effect: fairly high
Sawteeth recommended: stellite-tipped
Cutting tools: tungsten carbide
Peeling: not recommended or of no interest
Slicing: good
Notes: sawing and machining require powerful equipment.

ASSEMBLING

Nailing and screwing: good holding, pre-drilling required.
Notes: the wood tends to split when nailed. Dense wood; gluing must strictly follow good practice and the glue manufacturer's recommendations.

COMMERCIAL GRADING

Appearance grading of sawn timber according to SATA rules (1996).
General market: strips grades I, II, III, IV; short lengths grades I, II; short rafters grades I, II, III.
Special markets: flooring strips and boards grades I, II, III; rafters grades I, II, III.
Visual structural grading: according to French standard NF B 52-001-1 (2011), strength class D50 can be assigned by visual grading.

FIRE SAFETY

French conventional classification: thickness > 14 mm: M3 (moderately flammable); thickness < 14 mm: M4 (easily flammable).
Euroclass: D-s2, d0.
Default classification for solid timber meeting NF EN 14081-1 (April 2016): structural timber used for walls and ceilings, graded, with minimum mean density 0.35 and minimum thickness 22 mm.

MAIN END USES

- Turned articles
- Heavy carpentry
- Boatbuilding (planking, deck)
- Boatbuilding (framing)
- Cabinetwork (luxury furniture)
- Interior stairs
- Vehicle or container flooring
- Panelling
- Exterior joinery
- Interior joinery
- Furniture and components
- Flooring
- Heavy-duty or industrial flooring
- Sliced veneer
- Decking
- Bridges (in contact with ground or water)
- Bridges (not in contact)
- Exterior cladding
- Seats
- Hydraulic works (fresh water)
- Sleepers



The wood colour is often uneven; for some uses a colour equaliser is recommended. Resistant to one or more acids.

MAIN LOCAL NAMES

Country — Local name	Country — Local name
Angola — Menga-menga	Equatorial Guinea — Bokapi
Cameroon — M'bonda	Nigeria — Oropa
Congo — Menga-menga	Central African Republic — Molanga
Gabon — M'boun, Niové	DR Congo — Kamashi, Susumenga

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