SNBG — Timber Species Data Sheet

OKOUMÉ

Aucoumea klaineana Pierre

Family: Burseraceae · Continent: Africa



IDENTIFICATION

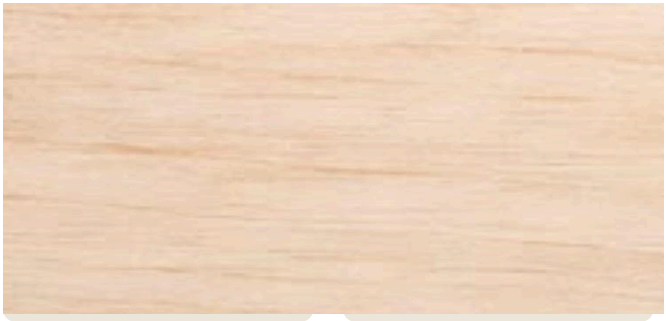
Family: Burseraceae
Botanical name: Aucoumea klaineana Pierre
Continent: Africa
CITES (Washington Convention, 2016): no trade restriction

LOG DESCRIPTION

Diameter: 60 to 120 cm
Sapwood thickness: 2 to 5 cm
Buoyancy: floats
Durability in forest: moderate (treatment recommended)

WOOD DESCRIPTION

Reference colour: light red
Sapwood: clearly demarcated
Texture: fine
Grain: straight or interlocked
Interlocked grain: slight
Notes: pinkish-white wood, more or less dark, turning reddish-brown with age. Sometimes lustrous or pearly. The grain may be slightly wavy.



PHYSICAL & MECHANICAL PROPERTIES

Property	Mean value
Density (1)	**0.44**
Monnin hardness (1)	**1.6**
Volumetric shrinkage coefficient	**0.33% per %**
Total tangential shrinkage (T)	**6.9%**
Total radial shrinkage (R)	**4.6%**
T/R ratio	**1.5**
Fibre saturation point	**40%**
Thermal conductivity (λ)	**0.16 W/(m.K)**
Lower heating value	**18,710 kJ/kg**
Crushing strength (1)	**36 MPa**
Static bending strength (1)	**62 MPa**
Longitudinal modulus of elasticity (1)	**9,690 MPa**

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

NATURAL DURABILITY AND TREATABILITY

Fungi resistance: class 4, slightly durable (species listed in standard NF EN 350)
Dry wood borer resistance: class D, durable (sapwood distinct, risk limited to sapwood)
Termite resistance: class S, susceptible
Treatability: class 3, poorly permeable
Use class covered by natural durability: class 2, interior or under cover (risk of wetting)

Source: Atlas des bois tropicaux

PRESERVATIVE TREATMENT

Against dry wood borer attacks: this wood does not require preservative treatment.
Temporary humidification: use not recommended.
Permanent humidification: use not recommended.

DRYING

Drying rate: rapid
Risk of distortion: slight
Risk of case hardening: no known risk
Risk of checking: slight
Risk of collapse: no known risk
Suggested kiln schedule: no. 3

ASSEMBLING

Nailing and screwing: good holding

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 D18 can be assigned by visual grading.

SAWING AND MACHINING

Blunting effect: high
Sawteeth recommended: stellite-tipped
Cutting tools: tungsten carbide
Peeling: good
Slicing: good
Notes: some difficulty in planing due to interlocked grain. Tendency to raise fibres. Filling is required to obtain a good finish.

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

- Formwork
- Packaging, crates
- Plywood face or back veneer
- Plywood core
- Panelling
- Interior joinery
- Furniture and furniture components
- Moulding
- Blockboard
- Sliced veneer



MAIN LOCAL NAMES

Country	Local name
Cameroon	**Mfumu**
Congo	**N'kumi**
Gabon	**Angouma, Okoumé**
Equatorial Guinea	**N'goumi, Okume**
United Kingdom	**Gaboon**

SNBG

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