KEVAZINGO

Guibourtia demeusii, G. pellegriniana, G. tessmannii

Family: Leguminosae (Caesalpiniaceae) · Continent: Africa



IDENTIFICATION

Family: Leguminosae (Caesalpiniaceae) · Continent: Africa
Botanical names: Guibourtia demeusii J. Léonard, Guibourtia pellegriniana J. Léonard, Guibourtia tessmannii J. Léonard
CITES (Washington Convention, 2016): no trade restriction

LOG DESCRIPTION

Diameter: 90 to 150 cm
Sapwood thickness: 2 to 8 cm
Buoyancy: does not float
Durability in forest: moderate (treatment recommended)

WOOD DESCRIPTION

Reference colour: red brown
Sapwood: clearly demarcated
Texture: medium
Grain: straight or interlocked
Interlocked grain: slight
Notes: pinkish or reddish-brown wood with very fine purplish-red veining and some brown veins. Grain sometimes wavy.



PHYSICAL & MECHANICAL PROPERTIES

Property	Mean value
Density (1)	**0.92**
Monnin hardness (1)	**10.2**
Volumetric shrinkage coefficient	**0.62% per %**
Total tangential shrinkage (T)	**7.9%**
Total radial shrinkage (R)	**5.5%**
T/R ratio	**1.4**
Fibre saturation point	**24%**
Thermal conductivity (λ)	**0.30 W/(m.K)**
Lower heating value	**19,750 kJ/kg**
Crushing strength (1)	**76 MPa**
Static bending strength (1)	**137 MPa**
Longitudinal modulus of elasticity (1)	**20,180 MPa**

(1) At 12% moisture content, with 1 MPa = 1 N/mm²
Variable hardness: hard to very hard wood.

NATURAL DURABILITY AND TREATABILITY

Fungi resistance: class 2, 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
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: high
Risk of case hardening: no known risk
Risk of checking: high
Risk of collapse: no known risk
Notes: prior air-drying before kiln drying is recommended to avoid defects.
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: some care is needed where the grain is irregular. Very decorative veneers.

ASSEMBLING

Nailing and screwing: good holding, pre-drilling required.
Notes: dense wood; gluing must strictly follow good practice and the glue manufacturer's recommendations.

COMMERCIAL GRADING

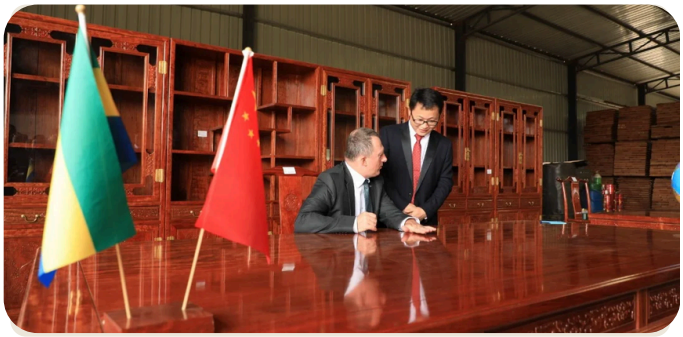
Appearance grading of sawn timber according to SATA rules (1996).
General market: strips grades I, II, III, IV; short lengths grades I, II; short rafters grades I, II, III.
Special markets: flooring strips and boards grades I, II, III; rafters grades I, II, III.
Visual structural grading: according to French standard NF B 52-001-1 (2011), strength class D40 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
- Cabinetwork (luxury furniture)
- Interior stairs
- Vehicle or container flooring
- Panelling
- Exterior joinery
- Interior joinery
- Furniture and components
- Flooring
- Sliced veneer
- Decking
- Seats
- Sleepers



MAIN LOCAL NAMES

Country — Local name	Country — Local name
Cameroon — Bubinga, Essingang	Gabon — Ébana, Kévazingo
Congo — Lianu	Equatorial Guinea — Ovèng
United States — Akume	DR Congo — Waka

SNBG

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