TALI

Erythrophleum ivorense, E. suaveolens, E. guineense

Family: Leguminosae (Caesalpiniaceae) · Continent: Africa



IDENTIFICATION

Family: Leguminosae (Caesalpiniaceae) · Continent: Africa
Botanical names: Erythrophleum guineense G. Don, Erythrophleum ivorense A. Chev., Erythrophleum suaveolens Brenan, Erythrophleum p.p.
CITES (Washington Convention, 2016): no trade restriction

LOG DESCRIPTION

Diameter: 60 to 90 cm
Sapwood thickness: 3 to 6 cm
Buoyancy: does not float
Durability in forest: good

WOOD DESCRIPTION

Reference colour: brown
Sapwood: clearly demarcated
Texture: coarse
Grain: interlocked
Interlocked grain: marked
Notes: orange-yellowish brown to reddish-brown wood. Wood from East Africa is lighter in colour.



PHYSICAL & MECHANICAL PROPERTIES

Property	Mean value
Density (1)	**0.91**
Monnin hardness (1)	**9.2**
Volumetric shrinkage coefficient	**0.57% per %**
Total tangential shrinkage (T)	**8.4%**
Total radial shrinkage (R)	**5.1%**
T/R ratio	**1.6**
Fibre saturation point	**26%**
Thermal conductivity (λ)	**0.29 W/(m.K)**
Lower heating value	**18,280 kJ/kg**
Crushing strength (1)	**79 MPa**
Static bending strength (1)	**128 MPa**
Longitudinal modulus of elasticity (1)	**19,490 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
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: Tali must be dried slowly to reduce defects.
Suggested kiln schedule: no. 6

ASSEMBLING

Nailing and screwing: good holding, pre-drilling required.
Notes: avoid direct contact with iron fasteners (nails, screws), which may cause blackish stains. Dense wood: follow good gluing 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: strength class D40 according to European standard EN 1912 (2012) with the corresponding national standards, and French standard NF B 52-001-1 (2011).

SAWING AND MACHINING

Blunting effect: fairly high
Sawteeth recommended: stellite-tipped
Cutting tools: tungsten carbide
Peeling: poor
Slicing: not recommended or of no interest
Notes: sawing and machining require powerful equipment. Interlocked grain causes difficulties when planing.

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

- Heavy carpentry
- Vehicle or container flooring
- Exterior joinery
- Heavy-duty or industrial flooring
- Stakes
- Decking
- Bridges (ground/water contact)
- Bridges (not in contact)
- Posts
- Hydraulic works (fresh water)
- Sleepers



MAIN LOCAL NAMES

Country — Local name	Country — Local name
Cameroon — Élone	Nigeria — Erun, Sasswood
Congo — N'kassa	DR Congo — Kassa
Côte d'Ivoire — Alui, Tali	United Kingdom — Missanda
Gabon — Éloun	Senegal — Tali
Ghana — Potrodom	Sierra Leone — Gogbei
Equatorial Guinea — Elondo	Tanzania — Mwavi
Guinea-Bissau — Mancone	Zambia — Muave
Mozambique — Missanda	

SNBG

Société Nationale des Bois du Gabon

Notre passion, votre patrimoine.

SIÈGE SOCIAL

Libreville, Gabon · BP 2234

TÉLÉPHONE

+ 241 60 45 27 49

E-MAIL

contact@snbg-groupe.ga

SITE WEB

www.snbg-groupe.ga