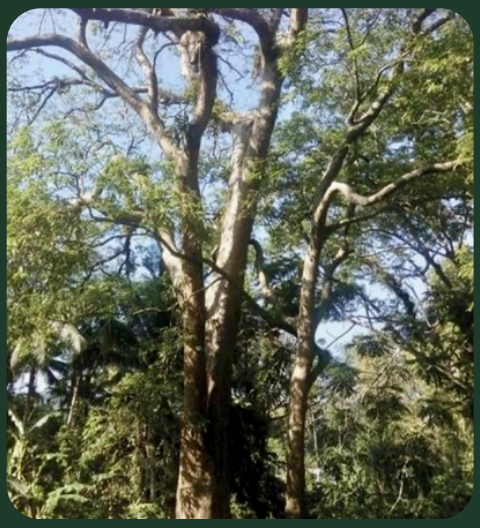
PADOUK

Pterocarpus soyauxii Taub., P. osun, P. tinctorius

Family: Leguminosae (Fabaceae) · Continent: Africa



IDENTIFICATION

Family: Leguminosae (Fabaceae)
Botanical names: Pterocarpus osun Craib, Pterocarpus soyauxii Taub., Pterocarpus tinctorius Welw.
Continent: Africa
CITES (Washington Convention, 2016): no trade restriction

LOG DESCRIPTION

Diameter: 60 to 100 cm
Sapwood thickness: 6 to 10 cm
Buoyancy: does not float
Durability in forest: moderate (treatment recommended)

WOOD DESCRIPTION

Reference colour: red
Sapwood: clearly demarcated
Texture: coarse
Grain: straight or interlocked
Interlocked grain: slight
Notes: bright red wood that turns purplish brown on exposure to light.



PHYSICAL & MECHANICAL PROPERTIES

Property	Mean value
Density (1)	**0.79**
Monnin hardness (1)	**8.3**
Volumetric shrinkage coefficient	**0.44% per %**
Total tangential shrinkage (T)	**5.0%**
Total radial shrinkage (R)	**3.2%**
T/R ratio	**1.6**
Fibre saturation point	**21%**
Thermal conductivity (λ)	**0.26 W/(m.K)**
Lower heating value	**–**
Crushing strength (1)	**65 MPa**
Static bending strength (1)	**116 MPa**
Longitudinal modulus of elasticity (1)	**15,870 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 2, moderately permeable
Use class covered by natural durability: class 4, in contact with the ground or fresh water
Covers use class 5 (sea or brackish water) only in temperate and cold climates. Service life may vary with use (NF EN 335).

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: normal to slow
Risk of distortion: none or very slight
Risk of case hardening: no known risk
Risk of checking: none or very slight
Risk of collapse: no known risk
Suggested kiln schedule: no. 8

ASSEMBLING

Nailing and screwing: good holding, pre-drilling required.
Notes: pre-drilling is necessary because of the risk of splitting, especially in small sizes.

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.

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: irritant dust. Sawing and machining require powerful equipment. Interlocked grain can sometimes cause difficulties.

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
- Xylophones, percussion
- Vehicle or container flooring
- Exterior joinery
- Interior joinery
- Flooring
- Heavy-duty or industrial flooring
- Sliced veneer
- Decking
- Bridges (ground/water contact)
- Bridges (not in contact)
- Sculpture
- Seats
- Hydraulic works (marine)
- Sleepers

Bright red wood, turning purplish brown with light. Irritant dust.



MAIN LOCAL NAMES

Country — Local name	Country — Local name
Germany — Padauk	Equatorial Guinea — Palo rojo
Angola — Tacula	Italy — Paduk
Belgium — Corail	Nigeria — Osun
Cameroon — Mbel	Netherlands — Padoek
Congo — Kisésé	Central African Republic — Padouk
France — Padouk d'Afrique	DR Congo — Mongola, Mukula, N'gula
Gabon — Mbel	United Kingdom — African padauk, Barwood, Camwood

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