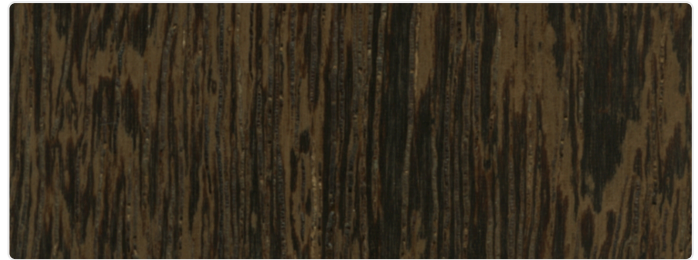


WENGE

Technical Wood Sheet (Milletia spp.)

Family: Fabaceae | **Continent:** Africa
Botanical Name(s): Milletia laurentii, Milletia stuhlmannii.
CITES: This species is not listed in the CITES Appendices (Washington Convention 2023).



DESCRIPTION OF LOGS

Diameter	From 60 to 100 cm
Thickness of sapwood	From 2 to 3 cm
Floats	No
Log durability	Good

DESCRIPTION OF WOOD

Colour reference	Dark brown
Sapwood	Clearly demarcated
Texture	Coarse
Grain	Straight
Interlocked grain	Absent

Notes: Sometimes, brittleheart and grub hole. Wood yellow when fresh, becoming dark brown to black brown with light. Presence of alternate light and dark stripes.

PHYSICS AND MECHANICS

Values for mature wood at 12% moisture content. 1 MPa = 1 N/mm²

Property	Avg. value
Specific gravity	0.87
Monnin hardness	9.1
Coef. volumetric shrinkage	0.69 % / %
Total tangential shrinkage (St)	9.1 %
Total radial shrinkage (Sr)	5.9 %
Ratio St/Sr	1.5
Fibre saturation point	22 %
Thermal conductivity (λ)	0.28 W/(m.K)
Crushing strength	85 MPa
Static bending strength	144 MPa
Modulus of elasticity	21,050 MPa

NATURAL DURABILITY & PRESERVATION

Resistance to fungi	Class 2 — durable
Dry wood borers	Class D — durable*
Resistance to termites	Class D — durable
Treatability	Class 4 — not permeable
Use class	Class 4 — in ground or fresh water contact

* sapwood demarcated, risk limited to sapwood

PRESERVATIVE TREATMENT REQUIREMENT

Against dry wood borers	Not required
Temp. humidification	Not required
Perm. humidification	Not required

SAWING AND MACHINING

Blunting effect	Fairly high
Sawteeth recommended	Stellite-tipped
Cutting tools	carbide
Peeling / Slicing	interest / Good

Notes: Requires power. Difficult to polish. Apply preferably a finishing wax.

ASSEMBLING

Nailing and screwing	Good but pre-boring necessary
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COMMERCIAL GRADING

Appearance grading for sawn timbers. According to the ATIBT grading rules (2017), the main choices are: FAS (First And Second), n°1 Common and select, n°2 Common (see details of these rules on the ATIBT website). Visual grading for structural applications No visual grading for structural applications

DRYING

Drying rate	Slow
Risk of distortion	Slight risk
Risk of casehardening	No known specific risk
Risk of checking	High risk
Risk of collapse	No known specific risk

Notes: Usually, few risks of distortion except with thick material.

FIRE SAFETY

Thickness > 14 mm	M3 (mod. inflammable)
Thickness < 14 mm	M4 (easily inflammable)
Euroclasses grading	D-s2, d0

MAIN LOCAL NAMES

Cameroon	Awoung
Congo	Wengé
Democratic Republic of the Congo	Wengé
France (importated tropical timber)	Panga-panga / Wengé
Gabon	Awong
Germany (importated tropical timber)	Panga-panga / Wenge
Mozambique	Jambire
Tanzania	Mpande
United Kingdom (importated tropical timber)	Panga-panga / Wenge

END-USES

- Cabinetwork
- Current furniture or furniture components
- Exterior joinery
- Exterior panelling
- Flooring
- Interior joinery
- Interior panelling
- Resistant to one or several acids
- Sculpture
- Sliced veneer
- Turned goods