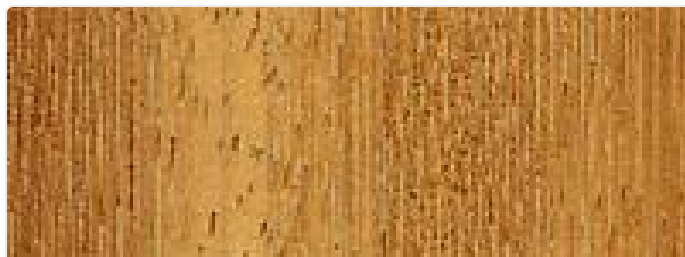


IROKO

Technical Wood Sheet (Milicia spp.)

Botanical Name(s): Milicia excelsa, Chlorophora excelsa (synonymous), Milicia regia, Chlorophora regia (synonymous).

CITES: This species is not listed in the CITES Appendices (Washington Convention 2023).



DESCRIPTION OF LOGS

Diameter	From 80 to 100 cm
Thickness of sapwood	From 5 to 10 cm
Floats	No

DESCRIPTION OF WOOD

Colour reference	Y ellow brown
Sapwood	Clearly demarcated
Grain	Interlocked
Interlocked grain	Slight

Notes: Y ellow brown to more or less dark brown, with golden glints. Ribbon-like aspect on quartersawn, darker veins on slab.

PHYSICS AND MECHANICS

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

Property	Avg. value
Specific gravity	0.64
Monnin hardness	4.1
Coef. volumetric shrinkage	0.44 % / %
Ratio St/Sr	1.5
Lower heating value	19,900 kJ/kg
Crushing strength	54 MPa
Static bending strength	87 MPa
Modulus of elasticity	12,840 MPa

NATURAL DURABILITY & PRESERVATION

Resistance to fungi	Class 1-2 — very durable to durable
Dry wood borers	Class D — durable*
Resistance to termites	Class D — durable

* 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	Tungsten carbide
Peeling / Slicing	Good / Good

Notes: The calcium carbonate deposits in some logs severely damage tools. Very irritant sawdust. Risks of tearing (irregular grain).

ASSEMBLING

Nailing and screwing	Good
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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 According to European standard EN 1912 (2012) and associated national standards, strength class D40 can be provided by visual grading. Strength class D30 can also be provided by visual grading according to French standard NF B 52-001-1 (2018).

DRYING

Drying rate	Normal
Risk of distortion	Slight risk
Risk of casehardening	No known specific risk
Risk of checking	No risk or very slight risk
Risk of collapse	No known specific risk

FIRE SAFETY

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

MAIN LOCAL NAMES

Angola	Moreira
Belgium (importated timber)	tropical Kambala
Benin	Lokotin
Cameroon	Abang
Central African Republic	Bangui
Congo	Kambala / Kambala / Lusanga / Mokongo / Moloundou
Côte d'Ivoire	Iroko
Democratic Republic of Equatorial Guinea	the / the / the / the Abang
Gabon	Abang / Mandji
Ghana	Odoum
Guinea	Simmé
Liberia	Semli
Mozambique	Mufula
Mozambique T	ule
Nigeria	Rokko
Sierra Leone	Semli

END-USES

Bridges (parts not in contact with water or ground)

Cabinetwork Cooperage

Current furniture or furniture components Decking

Exterior joinery Flooring Glued laminated

Interior joinery Interior panelling Light carpentry

Ship building (planking and deck) Sliced veneer

Stairs (inside) Turned goods

Vehicle or container flooring

Veneer for back or face of plywood

