

Common name:	EKABA
Family:	CAESALPINIACEAE
Scientific name(s):	Tetraberlinia bifoliolata Berlinia bifoliolata (synonymous) Tetraberlinia tubmaniana
Note:	EKABA is often confused with ANDOUNG (Monopetalanthus spp.).

LOG DESCRIPTION		WOOD DESCRIPTION	
Diameter:	from 70 to 100 cm	Colour:	Pinkish brown
Thickness of sapwood:	from 2 to 12 cm	Sapwood:	Not clearly demarcated
Floats:	yes	Texture:	Medium
Durability in forest :	Moderate (treatment recommended)	Grain:	Straight or interlocked
Note:	Possible presence of wind shakes.	Interlocked grain:	Slight

PHYSICAL PROPERTIES			MECHANICAL PROPERTIES		
Physical and mechanical properties are based on mature heartwood specimens. These properties can vary greatly depending on origin and growth conditions.					
	mean	standard deviation		mean	standard deviation
Density *:	0.62 g/cm ³	0.07			
Monnin hardness*:	3.0	0.6	Crushing strength *:	56 MPa	8
Coef of volumetric shrinkage:	0.50 %	0.07	Static bending strength *:	90 MPa	15
Total tangential shrinkage:	7.8 %	1.2	Modulus of elasticity *:	13760 MPa	2030
Total radial shrinkage:	4.1 %	0.7			
Fibre saturation point:	27 %				
Stability:	Moderately stable		(* : at 12 % moisture content ; 1 MPa = 1 N/mm ²)		
Note:	T. bifoliolata has lower physical and mechanical properties than T. tubmaniana .				

NATURAL DURABILITY AND TREATABILITY

Fungi and termite resistance refers to end-uses under temperate climate.

Except for special comments on sapwood, natural durability is based on mature heartwood.

Sapwood must always be considered as non-durable against wood degrading agents.

Fungi:	Class 3 moderately durable	* ensured by natural durability (according EN standards).
Dry wood borers:	Susceptible; sapwood not or slightly demarcated (risk in all the wood)	
Termites:	Class S - Susceptible	
Treatability:	2 - moderately permeable	
Use class*:	2 - inside or under cover (dampness possible)	

MAIN LOCAL NAMES

Countries	Local names
Cameroon	EKOP-RIBI
Congo	EKO-ANDOUNG
Equatorial Guinea	EKOP
Gabon	EKO-ANDOUNG
Liberia	HOH
Liberia	SIKON
Germany	EKOP
Netherlands	EKOP
Spain	EKABAN
United Kingdom	TETRABERLINIA

REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks:	Requires appropriate preservative treatment
In case of temporary humidification risk:	Requires appropriate preservative treatment
In case of permanent humidification risk:	Use not recommended

DRYING

Possible drying schedule

		Temperature (°C)			Air humidity (%)
		M.C. (%)	dry-bulb	wet-bulb	
Drying rate:	Normal to slow				
Risk of distortion:	High risk				
Risk of casehardening:	No				
Risk of checking:	High risk				
Risk of collapse:	No				
		Green	42	41	94
		50	48	43	74
		30	54	46	63
		20	60	51	62
		15	60	51	62

This schedule is given for information only and is applicable to thickness < 38 mm.

It must be used in compliance with the code of practice.

For thickness from 38 to 75 mm , the air relative humidity should be increased by 5 % at each step.

For thickness over 75 mm , a 10 % increase should be considered.

Note: Risks of discoloration during drying.

SAWING AND MACHINING

Blunting effect:	Normal
Sawteeth recommended:	Ordinary or alloy steel
Cutting tools:	Ordinary
Peeling:	Good
Slicing:	Not recommended or without interest
Note:	Risks of grain tearing in presence of interlocked grain; a reduced cutting angle is then recommended.

ASSEMBLING

Nailing / Screwing:	Poor
Gluing:	Correct

END-USES

Main known end-uses; they must to be implemented according to the code of practice.

Important remark: some end-uses are mentionned for information (traditional, regional or ancient end-uses).

- Veneer for interior of plywood
- Veneer for back or face of plywood
- Blockboard
- Light carpentry
- Glued laminated
- Wood frame house
- Moulding
- Boxes and crates
- Formwork
- Current furniture or furniture components
- Turned goods
- Exterior joinery
- Exterior panelling
- Interior joinery
- Interior panelling