

Common name:	SIPO
Family:	MELIACEAE
Scientific name(s):	Entandrophragma utile

LOG DESCRIPTION		WOOD DESCRIPTION	
Diameter:	from 60 to 120 cm	Colour:	Red brown
Thickness of sapwood:	from 2 to 6 cm	Sapwood:	Clearly demarcated
Floats:	yes	Texture:	Medium
Durability in forest :	Moderate (treatment recommended)	Grain:	Interlocked
Note:	Some logs are not floatable. Wood pinkish brown to red brown slightly purplish, with moiré shades. Ribbon like aspect on quartersawn. Irregular grain.	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	0.04			
Monnin hardness*:	3.0	0.4	Crushing strength *:	56 MPa	6
Coef of volumetric shrinkage:	0.42 %	0.06	Static bending strength *:	91 MPa	11
Total tangential shrinkage:	6.4 %	0.7	Modulus of elasticity *:	13240 MPa	2547
Total radial shrinkage:	4.6 %	0.7			
Fibre saturation point:	30 %				
Stability:	Moderately stable to stable		(* : at 12 % moisture content ; 1 MPa = 1 N/mm ²)		
Note:	Hardness varies from soft to fairly hard.				

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 2-3 durable to moderately durable	* ensured by natural durability (according EN standards).
Dry wood borers:	Durable; sapwood demarcated (risk limited to sapwood)	
Termites:	Class M - Moderately durable	
Treatability:	4 - not permeable	
Biological hazard class*:	2 - not in ground contact, under cover (dampness possible)	
Note:	This species is listed in the European standard NF EN 350-2.	

COUNTRIES - LOCAL NAMES

Countries	Local names
Angola	KALUNGI
Cameroon	ASSENG-ASSIE
Côte d'Ivoire	SIPO
Dem Rep of Congo	KALUNGI
Dem Rep of Congo	LIBOYO
Equatorial Guinea	ABEBAY
Gabon	ASSI
Ghana	UTILE
Nigeria	UTILE
Uganda	MUFUMBI
Germany	SIPO-MAHOGANY
United Kingdom	UTILE

SIPO

REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks:	Does not require any 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				
Risk of distortion:	Slight risk				
Risk of casehardening:	No				
Risk of checking:	Slight risk	Green	50	47	84
Risk of collapse:	No	40	50	45	75
		30	55	47	67
		20	70	55	47
		15	75	58	44

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: The risks of distortion increase in presence of highly interlocked grain especially during kiln drying. Original shakes tend to extend.

SAWING AND MACHINING

Blunting effect:	Normal
Sawteeth recommended:	Ordinary or alloy steel
Cutting tools:	Ordinary
Peeling:	Good
Slicing:	Good
Note:	Tendency to tearing due to interlocked grain.

ASSEMBLING

Nailing / Screwing:	Good
Gluing:	Correct
Note:	Gluing requires care: it can stain wood.

END-USES

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

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

Note: Filling is recommended in order to obtain a better finish.

Sliced veneer

Current furniture or furniture components

Cabinetwork (high class furniture)

Exterior joinery

Interior joinery

Interior panelling

Veneer for back or face of plywood

Moulding

Open boats

Flooring

Stairs (inside)

Rolling shutters

Light carpentry

Glued laminated
