

Common name:	LONGHI
Family:	SAPOTACEAE
Scientific name(s):	Gambeya spp. Chrysophyllum spp. (synonymous)
Note:	Possible confusion with ANINGRE (Aningeria spp.). The name LONGHI regroups several species of the genus Gambeya whose properties and aspect can greatly vary.

LOG DESCRIPTION		WOOD DESCRIPTION	
Diameter:	from 60 to 80 cm	Colour:	Yellow brown
Thickness of sapwood:	from 3 to 4 cm	Sapwood:	Not clearly demarcated
Floats:	no	Texture:	Fine
Durability in forest :	Moderate (treatment recommended)	Grain:	Straight or interlocked
Note:	Heartwood pinkish brown becoming yellow brown with air.	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 *:	0.75 g/cm ³	0.06			
Monnin hardness*:	4.9	1.1	Crushing strength *:	67 MPa	11
Coef of volumetric shrinkage:	0.51 %	0.07	Static bending strength *:	122 MPa	21
Total tangential shrinkage:	8.2 %	0.8	Modulus of elasticity *:	18490 MPa	2562
Total radial shrinkage:	5.2 %	0.8			
Fibre saturation point:	31 %				
Stability:	Moderately stable		(* : at 12 % moisture content ; 1 MPa = 1 N/mm ²)		

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 4 - poorly durable	* ensured by natural durability (according EN standards).
Dry wood borers:	Susceptible; sapwood not or slightly demarcated (risk in all the wood)	
Termites:	Class M - Moderately durable	
Treatability:	2 - moderately permeable	
Use class*:	1 - inside (no dampness)	
Note:	This species is listed in the European standard NF EN 350-2. Several species, with different natural durability, are grouped under the name LONGHI. Some species and origins could be used without preservative treatment for end-uses under use class 2. However, commercial lots are usually constituted by blended species. Consequently, it is advisable to use the less durable woods as a point of reference.	

MAIN LOCAL NAMES

Countries	Local names
Cameroon	ABAM
Congo	LONGHI
Côte d'Ivoire	AKATIO
Côte d'Ivoire	ANINGUERI ROUGE
Côte d'Ivoire	ANANDIO
Dem Rep of Congo	BOPAMBU
Gabon	M'BEBAME
Ghana	AKASA

LONGHI

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

Drying rate:	Normal to slow	Temperature (°C)			Air humidity (%)
		M.C. (%)	dry-bulb	wet-bulb	
Risk of distortion:	Slight risk				
Risk of casehardening:	No				
Risk of checking:	High 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: Kiln drying must be handled slowly and carefully in order to avoid cracks and fungal discolorations.

SAWING AND MACHINING

Blunting effect:	Normal
Sawteeth recommended:	Ordinary or alloy steel
Cutting tools:	Ordinary
Peeling:	Good
Slicing:	Good

ASSEMBLING

Nailing / Screwing:	Good
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).

Cabinetwork (high class furniture)
Sliced veneer
Interior joinery
Interior panelling
Current furniture or furniture components
Turned goods
Flooring
Wood-ware
Veneer for back or face of plywood
Wood frame house
Glued laminated
Light carpentry
Stairs (inside)
Seats
Sculpture
