

Common name:	TALI
Family:	ERYTHROXYLACEAE
Scientific name(s):	Erythrophleum suaveolens Erythrophleum ivorense

LOG DESCRIPTION	WOOD DESCRIPTION
Diameter: from 60 to 90 cm	Colour: Brown
Thickness of sapwood: from 3 to 6 cm	Sapwood: Clearly demarcated
Floats: no	Texture: Coarse
Durability in forest : Good	Grain: Interlocked
	Interlocked grain: Marked
Note:	Wood orangey yellow brown to reddish brown. Tali from East Africa has a lighter colour.

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 *:	0.91 g/cm ³	0.08			
Monnin hardness*:	9.2	2.7	Crushing strength *:	79 MPa	11
Coef of volumetric shrinkage:	0.57 %	0.12	Static bending strength *:	128 MPa	19
Total tangential shrinkage:	8.4 %	1.2	Modulus of elasticity *:	19490 MPa	3224
Total radial shrinkage:	5.1 %	1.4			
Fibre saturation point:	26 %				
Stability:	Moderately stable to 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 1 - very durable	* ensured by natural durability (according EN standards).
Dry wood borers:	Durable; sapwood demarcated (risk limited to sapwood)	
Termites:	Class D - Durable	
Treatability:	4 - not permeable	
Use class*:	4 - in ground or fresh water contact	
Note:	According to the European standard NF EN 335, performance length might be modified by the intensity of end-use exposition.	

MAIN LOCAL NAMES

Countries	Local names
Cameroon	ELONE
Congo	N'KASSA
Côte d'Ivoire	ALUI
Côte d'Ivoire	TALI
Dem Rep of Congo	KASSA
Equatorial Guinea	ELONDO
Gabon	ELOUN
Ghana	POTRODOM
Guinea-Bissau	MANCONE
Mozambique	MISSANDA
Nigeria	ERUN
Nigeria	SASSWOOD
Senegal	TALI
Sierra Leone	GOGBEI
Tanzania	MWAVI
Zambia	MUAVE
United Kingdom	MISSANDA

TALI

REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks:	Does not require any preservative treatment
In case of temporary humidification risk:	Does not require any preservative treatment
In case of permanent humidification risk:	Does not require any preservative treatment

DRYING

Possible drying schedule

Drying rate:	Slow	Temperature (°C)			Air humidity (%)
		M.C. (%)	dry-bulb	wet-bulb	
Risk of distortion:	High risk	Green	42	39	82
Risk of casehardening:	No	50	48	43	74
Risk of checking:	High risk	40	48	43	74
Risk of collapse:	No	30	48	43	74
		15	54	46	63

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: Must be dried slowly and carefully in order to reduce defects.

SAWING AND MACHINING

Blunting effect:	Fairly high
Sawteeth recommended:	Stellite-tipped
Cutting tools:	Tungsten carbide
Peeling:	Bad
Slicing:	Not recommended or without interest
Note:	Requires power. Difficulties due to interlocked grain in planing.

ASSEMBLING

Nailing / Screwing:	Good but pre-boring necessary
Gluing:	Correct (for interior only)
Note:	With dampness, assembling of iron pieces are not advisable because of risks of reciprocal attack between wood and iron.

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).

Note: Can be used as a substitute for AZOBE (*Lophira alata*).

Sleepers

Heavy carpentry

Hydraulic works (fresh water)

Posts

Stakes

Bridges (parts in contact with water or ground)

Industrial or heavy flooring

Vehicle or container flooring

Bridges (parts not in contact with water or ground)
