

Family: MALVACEAE (angiosperm)

Scientific name(s): Triplochiton scleroxylon

Commercial restriction: no commercial restriction

## WOOD DESCRIPTION

Color: light yellow  
 Sapwood: not demarcated  
 Texture: medium  
 Grain: straight or interlocked  
 Interlocked grain: slight

Note: Black holes, brittleheart, ring shakes and grub holes in some logs.

Yellowish white to light yellow, heartwood sometimes darker. Ribbon like aspect on quartersawn. Grain sometimes irregular.

## LOG DESCRIPTION

Diameter: from 60 to 140 cm  
 Thickness of sapwood:  
 Floats: yes  
 Log durability: low (must be treated)

## PHYSICAL PROPERTIES

Physical and mechanical properties are based on mature heartwood specimens. These properties can vary greatly depending on origin and growth conditions.

	<u>Mean</u>	<u>Std dev.</u>
Specific gravity *:	0,38	0,05
Monnin hardness *:	1,1	0,4
Coeff. of volumetric shrinkage:	0,36 %	0,11 %
Total tangential shrinkage (TS):	5,0 %	0,5 %
Total radial shrinkage (RS):	2,9 %	0,4 %
TS/RS ratio:	1,7	
Fiber saturation point:	29 %	

Stability: moderately stable to stable

## MECHANICAL AND ACOUSTIC PROPERTIES

	<u>Mean</u>	<u>Std dev.</u>
Crushing strength *:	30 MPa	4 MPa
Static bending strength *:	52 MPa	9 MPa
Modulus of elasticity *:	7260 MPa	1574 MPa

(\*: at 12% moisture content, with 1 MPa = 1 N/mm<sup>2</sup>)

Musical quality factor: 111,2 measured at 2468 Hz

## 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.

E.N. = Euro Norm

Funghi (according to E.N. standards): class 5 - not durable

Dry wood borers: susceptible - sapwood not or slightly demarcated (risk in all the wood)

Termites (according to E.N. standards): class S - susceptible

Treatability (according to E.N. standards): class 3 - poorly permeable

Use class ensured by natural durability: class 1 - inside (no dampness)

Species covering the use class 5: No

Note: This species is listed in the European standard NF EN 350-2.

Poorly to moderately permeable to preservative treatment. Prone to blue stain and dote.

## REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: requires appropriate preservative treatment

In case of risk of temporary humidification: use not recommended

In case of risk of permanent humidification: use not recommended

## DRYING

Drying rate: rapid	Possible drying schedule: 3			
Risk of distortion: no risk or very slight risk		Temperature (°C)		
Risk of casehardening: no	M.C. (%)	dry-bulb	wet-bulb	Air humidity (%)
Risk of checking: no risk or very slight risk	Green	60	56	81
Risk of collapse: no	30	68	58	61
	20	74	60	51
Note: During air drying, it is recommended to use large spacer sticks to allow a good air circulation.	15	80	61	41

This schedule is given for information only and is applicable to thickness lower or equal to 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.

## SAWING AND MACHINING

Blunting effect: normal
Sawteeth recommended: ordinary or alloy steel
Cutting tools: ordinary
Peeling: good
Slicing: good
Note: Tends to crumble when machining end grain and tends to tear in mortising (it is recommended to keep sharp edges and to reduce the cutting angle). Filling recommended.

## ASSEMBLING

Nailing / screwing: poor
Gluing: correct
Note: Gluing must be done carefully: absorbent wood.

## COMMERCIAL GRADING

Appearance grading for sawn timbers: According to SATA grading rules (1996)
For the "General Purpose Market":
Possible grading for square edged timbers: choix I, choix II, choix III, choix IV
Possible grading for short length lumbers: choix I, choix II
Possible grading for short length rafters: choix I, choix II, choix III
For the "Special Market":
Possible grading for strips and small boards (ou battens): choix I, choix II, choix III
Possible grading for rafters: choix I, choix II, choix III

## FIRE SAFETY

Conventional French grading: Thickness > 14 mm : M.3 (moderately inflammable)
Thickness < 14 mm : M.4 (easily inflammable)
Euroclasses grading: D s2 d0
Default grading for solid wood, according to requirements of European standard EN 14081-1 annex C (April 2009). It concerns structural graded timber in vertical uses with mean density upper 0.35 and thickness upper 22 mm.

## END-USES

Moulding	Veneer for interior of plywood
Veneer for back or face of plywood	Current furniture or furniture components
Boxes and crates	Interior joinery
Interior panelling	Fiber or particle boards
Blockboard	Sculpture
Matches	Sliced veneer
Pencils	
Note: Substitute for POPLAR (Populus spp.) for several end-uses: light furniture, panelling....	

## MAIN LOCAL NAMES

<u>Country</u>	<u>Local name</u>	<u>Country</u>	<u>Local name</u>
Benin	XWETIN	Cameroon	AYOUS
Cameroon	AYUS	Congo	EGUESS
Ivory Coast	SAMBA	Gabon	AYOUS
Ghana	WAWA	Equatorial Guinea	AYOUS
Equatorial Guinea	AYUS	Nigeria	ARERE
Nigeria	OBECHÉ	Central African Republic	BADO
Central African Republic	M'BADO	Germany	ABACHI
France	AYOUS	France	SAMBA
United Kingdom	AYOUS	United Kingdom	OBECHÉ
United Kingdom	WAWA		

