Common name: BILINGA

Family: RUBIACEAE Scientific name(s): Nauclea diderrichii

Sarcocephalus spp. (synonymous)

Nauclea gilletii

LOG DESCRIPTION		WOOD DESCRIPTION	
Diameter:	from 60 to 90 cm	Colour:	Orange - yellow
Thickness of sapwood:	from 3 to 5 cm	Sapwood:	Clearly demarcated
Floats:	no	Texture:	Medium
Durability in forest:	Good	Grain:	Interlocked
	•	Interlocked grain:	Marked
Note:	Heartwood golden yellow or orar remains stable.	ngey yellow slightly mo	siré. In interior end-uses, the 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
Density *:	0.76g/cm^{2}	3 0.07			deviation
Monnin hardness*:	5.3	1.3	Crushing strength *:	63 MPa	7
Coef of volumetric shrinkage	: 0.55 %	0.05	Static bending strength *:	95 MPa	11
Total tangential shrinkage:	7.5 %	0.9	Static bending strength .	95 MFa	11
Total radial shrinkage:	4.5 %	0.7	Modulus of elasticity *:	14660 MPa	1934
Fibre saturation point:	25 %				
Stability:	Moderately s	table to stable	(*: at 12 % moisture content	; $1 \text{ MPa} = 1 \text{ N/mn}$	n2)

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

Dry wood borers: Durable; sapwood demarcated (risk limited to sapwood)

* ensured by natural durability (according EN standards).

Termites: Class D - Durable
Treatability: 2 - moderately permeable

Biological hazard class*: 4 - in ground or fresh water contact or hight dampness

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

Bilinga naturally covers the biological hazard class 5 (end-uses in marine environment or in

brackish water).

COUNTRIES - LOCAL NAMES

Countries	Local names	Countries	Local names	
Angola	ENGOLO	Uganda	KILINGI	
Benin	OPEPE	Germany	ALOMA	
Cameroon	AKONDOC	United Kingdom	OPEPE	
Central African Rep	KILU			
Congo	LINZI			
Congo	MOKESSE			
Congo	N'GULU-MAZA			
Côte d'Ivoire	BADI			
Dem Rep of Congo	BONKNGU			
Dem Rep of Congo	N'GULU-MAZA			
Equatorial Guinea	ALOMA			
Gabon	BILINGA			
Ghana	KUSIA			
Nigeria	OPEPE			
Sierra Leone	BUNDUI			

BILINGA

REQUIREMENT OF A PRESERVATIVE TREATMENT

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

DRYING Possible drying schedule			g schedule		
Drying rate: Risk of distortion:	Slow Slight risk	M.C. (%)	Tempera dry-bulb	ture (°C) wet-bulb	Air humidity (%)
Risk of casehardening: Risk of checking: Risk of collapse:	No High risk No	Green 40 30 20 15	50 50 55 70 75	47 45 47 55 58	84 75 67 47 44

This shedule 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: Difficult to dry due to high interlocked grain. Quartersawn recommended in order to avoid

defects.

SAWING AND MACHINING

Blunting effect: Normal

Sawteeth recommended: Ordinary or alloy steel

Cutting tools: Ordinary
Peeling: Bad
Slicing: Good

Note: Requires power.

ASSEMBLING

Nailing / Screwing: Good but pre-boring necessary

Gluing: Correct

Note: Slight tendency to split in nailing. Gluing must be done with care: the wood is acid.

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: Exterior facing must be protected against humidity variation in order to avoid shakes. Filling is

necessary.

Sleepers Resistant to one or several acids

Heavy carpentry

Posts

Bridges (parts in contact with water or ground)

Hydraulic works (seawater)

Vehicle or container flooring

Industrial or heavy flooring

Flooring

Cabinetwork (high class furniture)

Current furniture or furniture components

Sliced veneer

Ship building (planking and deck)

Exterior panelling

Interior joinery

Interior panelling

Bridges (parts not in contact with water or ground)