

Family: BURSERACEAE (angiosperm)

Scientific name(s): Dacryodes igaganga

Commercial restriction: no commercial restriction

## WOOD DESCRIPTION

Color: yellow brown  
Sapwood: not clearly demarcated  
Texture: fine  
Grain: interlocked  
Interlocked grain: slight

Note: Wood yellow to orangey brown, more or less deep. Grain sometimes wavy.

## LOG DESCRIPTION

Diameter: from 60 to 80 cm  
Thickness of sapwood: from 2 to 4 cm  
Floats: yes  
Log durability: moderate (treatment recommended)

## 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 *:	0,61	0,03
Monnin hardness *:	3,2	0,7
Coeff. of volumetric shrinkage:	0,46 %	0,13 %
Total tangential shrinkage (TS):	7,8 %	0,7 %
Total radial shrinkage (RS):	5,0 %	0,6 %
TS/RS ratio:	1,6	
Fiber saturation point:	29 %	
Stability: stable		

## MECHANICAL AND ACOUSTIC PROPERTIES

	<u>Mean</u>	<u>Std dev.</u>
Crushing strength *:	57 MPa	5 MPa
Static bending strength *:	95 MPa	8 MPa
Modulus of elasticity *:	13060 MPa	603 MPa

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

Musical quality factor: 120,6 measured at 2747 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 2 - inside or under cover (dampness possible)

Species covering the use class 5: No

## 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: normal

Risk of distortion: slight risk

Risk of casehardening: no information available

Risk of checking: no risk or very slight risk

Risk of collapse: no information available

Possible drying schedule: 2

M.C. (%)	Temperature (°C)		Air humidity (%)
	dry-bulb	wet-bulb	
Green	50	47	84
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 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: high

Sawteeth recommended: stellite-tipped

Cutting tools: tungsten carbide

Peeling: good

Slicing: good

Note: Equivalent to OKOUME (*Aucoumea klaineana*) for peeling. Sawing is quite difficult due to silica content.

## ASSEMBLING

Nailing / screwing: good

Gluing: correct

## 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

Veneer for interior of plywood

Blockboard

Stairs (inside)

Glued laminated

Wood frame house

Interior joinery

Wood-ware

Veneer for back or face of plywood

Flooring

Boxes and crates

Sliced veneer

Moulding

Current furniture or furniture components

Turned goods

## MAIN LOCAL NAMES

<u>Country</u>	<u>Local name</u>	<u>Country</u>	<u>Local name</u>
Cameroon	ASSAS	Cameroon	BAMISA
Cameroon	BEUHAGO	Cameroon	BOSO
Cameroon	MOKOBA	Gabon	IGAGANGA
Nigeria	IBAGHO	Nigeria	ONUMU
Nigeria	ORUMU		

