

Family: MELIACEAE (angiosperm)  
Scientific name(s): *Turraeanthus africanus*  
Commercial restriction: no commercial restriction

## WOOD DESCRIPTION

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

Note:  
Wood cream white or light yellow, lustrous aspect, turns to golden yellow with light. Moiré or ribbon like aspect on quartersawn

## LOG DESCRIPTION

Diameter: 20 – 28 inches  
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*:	0.58	0.06
Janka Hardness (lbs):	1,170	
Volumetric Shrinkage:	0.36%	0.11%
Total Tangential Shrinkage (TS):	6.6%	1.1%
Total Radial Shrinkage (RS):	3.8%	0.6%
TS/RS Ratio:	1.7	
Fiber Saturation Point:	39%	
Stability: stable		

## MECHANICAL/ACOUSTIC

	<u>Mean</u>	<u>Std. Dev.</u>
Crushing Strength*:	7541 psi	1015 psi
Static Bending Strength*:	13,633 psi	2175 psi
Modulus of Elasticity*:	1826025 psi	224808 psi

Musical Quality Factor: 128.8 measured at 2754 Hz

\*At 12% moisture content.

## 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 4 - poorly durable
Dry Wood Borers:	class S - susceptible (risk in all the wood)
Termites (According to E.N. standards):	class S - susceptible
Treatability (according to E.N. standards):	class 4 - not permeable
Use class ensured by natural durability:	class 2 - inside or under cover (dampness possible)
Species covering the use class 5:	no

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

## 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

<b>Drying Rate:</b>	rapid to normal
<b>Risk of Distortion:</b>	high risk
<b>Risk of Casehardening:</b>	no
<b>Risk of Checking:</b>	slight risk
<b>Risk of Collapse:</b>	no
<b>Possible Drying Schedule:</b>	2

Temperature (°F)			
M.C. (%)	Dry-Bulb	Wet-Bulb	Air Humidity (%)
Green	107.6	116.6	82
50	118.4	113	74
40	118.4	116.6	74
30	118.4	131	74
15	129.2	136.4	63

This schedule is given for information only and is applicable to thickness lower or equal to 1.5 in. It must be used in compliance with the code of practice. For thickness from 1.5 to 3 in, the air relative humidity should be increased by 5% at each step. For thickness over 3 in, a 10% increase should be considered.

## SAWING AND MACHINING

<b>Blunting Effect:</b>	normal
<b>Sawteeth Recommended:</b>	ordinary or alloy steel
<b>Cutting Tools:</b>	ordinary
<b>Peeling:</b>	bad
<b>Slicing:</b>	good

**Note:**

Poor aptitude for peeling (irregular logs). Very irritant sawdust; good ventilation required. Sometimes tearing in planing.

## ASSEMBLING

<b>Nailing / screwing:</b>	good but pre-boring necessary
<b>Gluing:</b>	correct
<b>Note:</b>	Gluing must be done carefully: wood may be easily stained.

## END-USES

Cabinetwork (high class furniture)  
Sliced Veneer  
Interior Joinery  
Interior Panelling  
Current Furniture Or Furniture Components  
Musical instruments  
Moulding

**Note:**

Substitute for Sycomore (Acer spp.) for furnitures.

## MAIN LOCAL NAMES

<u>Country</u>	<u>Local Name</u>
Cameroon	Asama
Ivory Coast	Avodire,
Ghana	Apapaya, Avodire
Dem. Rep. of the Congo	Lusamba, M'fube
Belgium	Lusamba
Liberia	Blima-Pu
Nigeria	Apaya