

**Family:** FABACEAE-CAESALPINIOIDEAE (angiosperm)  
**Scientific name(s):** *Guibourtia demeusei*  
*Guibourtia pellegriniana*  
*Guibourtia tessmannii*  
**Commercial restriction:** no commercial restriction

## WOOD DESCRIPTION

**Color:** red brown  
**Sapwood:** clearly demarcated  
**Texture:** medium  
**Grain:** straight or interlocked  
**Interlocked Grain:** slight  
**Note:**

Wood pink or reddish brown, with some fine purplish red veins. Some brown veins. Grain sometimes wavy.

## LOG DESCRIPTION

**Diameter:** 35 – 59 inches  
**Thickness of Sapwood:** 1 – 3 inches  
**Floats:** no  
**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>
<b>Specific Gravity*:</b>	0.92	0.12
<b>Janka Hardness (lbs):</b>	2410	
<b>Volumetric Shrinkage:</b>	0.62%	0.15%
<b>Total Tangential Shrinkage (TS):</b>	7.9%	2.0%
<b>Total Radial Shrinkage (RS):</b>	5.5%	1.0%
<b>TS/RS Ratio:</b>	1.4	
<b>Fiber Saturation Point:</b>	24%	
<b>Stability:</b> poorly stable		

## MECHANICAL/ACOUSTIC

	<u>Mean</u>	<u>Std. Dev.</u>
<b>Crushing Strength*:</b>	11,023 psi	1,450 psi
<b>Static Bending Strength*:</b>	19,870 psi	5,511 psi
<b>Modulus of Elasticity*:</b>	2,926,861 psi	811,051 psi

**Musical Quality Factor:** 111.9 measured at 2613 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

<b>Funghi (According to E.N. standards):</b>	class 2 - durable
<b>Dry Wood Borers:</b>	class D - durable (sapwood demarcated, risk limited to sapwood)
<b>Termites (According to E.N. standards):</b>	class D - durable
<b>Treatability (according to E.N. standards):</b>	class 4 - not permeable
<b>Use class ensured by natural durability:</b>	class 4 – in ground or fresh water contact
<b>Species covering the use class 5:</b>	no

**Note:**

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

According to the European standard NF EN 335, performance length might be modified by the intensity of end-use exposition.

## REQUIREMENT OF A PRESERVATIVE TREATMENT

<b>Against dry wood borer attacks:</b>	does not require any preservative treatment
<b>In case of risk of temporary humidification:</b>	does not require any preservative treatment
<b>In case of risk of permanent humidification:</b>	does not require any preservative treatment

## DRYING

<b>Drying Rate:</b>	slow
<b>Risk of Distortion:</b>	high risk
<b>Risk of Casehardening:</b>	no
<b>Risk of Checking:</b>	high risk
<b>Risk of Collapse:</b>	no
<b>Possible Drying Schedule:</b>	4

Temperature (°F)			
M.C. (%)	Dry-Bulb	Wet-Bulb	Air Humidity (%)
Green	107.6	102.2	82
50	118.4	109.4	74
40	118.4	109.4	74
30	118.4	109.4	74
15	129.2	114.8	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>	fairly high
<b>Sawteeth Recommended:</b>	stellite-tipped
<b>Cutting Tools:</b>	tungsten carbide
<b>Peeling:</b>	no information available
<b>Slicing:</b>	good
<b>Note:</b>	Requires power. Care is needed in presence of interlocked grain. Very decorative veneers.

## ASSEMBLING

<b>Nailing / screwing:</b>	good but pre-boring necessary
<b>Gluing:</b>	correct (for interior only)
<b>Note:</b>	Gluing must be done with care (dry wood and smooth surface).

## END-USES

Cabinetwork (high class furniture)  
 Sliced Veneer  
 Furniture or Furniture Components  
 Flooring  
 Interior Paneling  
 Seats  
 Sleepers  
 Heavy Carpentry  
 Stairs (inside)  
 Turned Goods  
 Interior Joinery  
 Exterior Joinery  
 Vehicle or Container Flooring

## MAIN LOCAL NAMES

Country	Local Name
<b>Cameroon</b>	Bubinga, Essingang
<b>Congo</b>	Lianu
<b>Gabon</b>	Kevazingo, Ebana
<b>Democratic Republic Congo</b>	Waka
<b>Equatorial Guinea</b>	Oveng
<b>USA</b>	Akume