WHITE LIMBA

Family: Scientific name(s): **Commercial restriction:**

COMBRETACEAE (angiosperm) Terminalia superba no commercial restriction



WOOD DESCRIPTION

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

Note: Sometimes brittle heart. Some logs have a black greyish heartwood, more or less veined, known as Black Limba.

PHYSICAL PROPERTIES

LOG DESCRIPTION

Diameter: 23-40 inches Floats: ves Log Durability: low (must be treated)

MECHANICAL/ACOUSTIC

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

	<u>Mean</u>	Std. Dev.
Specific Gravity*:	0.54	0.07
Janka Hardness (lbs):	670	
Volumetric Shrinkage:	0.42%	0.07%
Total Tangential Shrinkage (TS):	6.1%	0.9%
Total Radial Shrinkage (RS):	4.3%	1.1%
TS/RS Ratio:	1.4	
Fiber Saturation Point:	28%	
Stability:	moderate	ely stable

	<u>Mean</u>
Crushing Strength*:	6,816 lbf
Static Bending Strength*:	11,603 lbf
Modulus of Elasticity*:	1,704,193 lbf

Musical Quality Factor: 115.6 measured at 2740 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:	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 2 - moderately 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 NE	

This species is listed in the European standard NF EN 350-2. Preservative treatment is sometimes difficult due to a variable permeability (low to good.)

REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: requires appropriate preservative treatment In case of risk of temporary humidification: requires appropriate preservative treatment In case of risk of permanent humidification: use not recommended

WHITE LIMBA

DRYING

Drying Rate: Risk of Distortion: Risk of Casehardening: Risk of Checking: Risk of Collapse: rapid to normal no risk or very slight risk no no risk or very slight risk no

M.C. (%)	Dry-Bulb	Wet-Bulb	Air Humidity (%)
Green	140	132.8	81
86	154.4	136.4	61
68	165.2	140	51
59	176	141.8	41

Temperature (°F)

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

Blunting Effect:	normal	
Sawteeth Recommended:	ordinary or alloy steel	
Cutting Tools:	ordinary	
Peeling:	good	
Slicing:	good	
Note: Internal stresses in some logs (usually timbers from plantation.) Sometimes blunting effect quite high.		

ASSEMBLING

Nailing/Screwing: good Gluing: correct

END-USES

Veneer for plywood interior Veneer for back or face of plywood **Current furniture or furniture components** Interior joinery Moulding **Glued laminate** Boxes and crates Wood-ware Blockboard Seats **Interior paneling** Light carpentry Wood frame house Fiber or particle boards Sliced veneer Note: Sawdust may cause allergic reactions during machining.

Works Cited:

CIRAD'S Biomass, Wood, Energy, Bioproducts Research Unit (BioWooEB) Meier, E. (2015), Wood, United States of America

MAIN LOCAL NAMES

Local Name Country Benin Azinii Congo Limba Akom Gabon **Equatorial Guinea** Akom Nigeria Afara France Noyer Du Mayombe, Limbo Cameroon Akom **Ivory Coast** Frake Ghana Ofram Sierra Leone Kohagei United States of America Limba, Korina

