Common name:

LIMBALI

Family: Scientific name(s): CAESALPINIACEAE Gilbertiodendron dewevrei Macrolobium dewevrei (synonymous) Gilbertiodendron preussii Gilbertiodendron brachystegioides

LOG DESCRIPTION	WOOD DESCRIPTION		
Diameter:	from 60 to 100 cm	Colour:	Red brown
Thickness of sapwood:	from 5 to 10 cm	Sapwood:	Clearly demarcated
Floats:	no	Texture:	Coarse
Durability in forest :	Moderate (treatment	Grain:	Straight or interlocked
Note:	recommended)	Interlocked grain:	Slight
	Wood red brown with greenish or	copper shades. Possib	le internal stresses.

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 *:	0.81 g/cm2	3 0.05			deviation
Monnin hardness*:	5.1	1.1	Crushing strength *:	72 MPa	5
Coef of volumetric shrinkage:	0.62 %	0.05	Static handing strangth *	127 MD	12
Total tangential shrinkage:	9.1 %	0.8	Static bending strength *.	137 WIFa	15
Total radial shrinkage:	4.7 %	0.5	Modulus of elasticity *:	18010 MPa	2889
Fibre saturation point:	28 %				
Stability:	Moderately s	table	(*: at 12 % moisture content	; 1 MPa = 1 N/mm	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 2 - durable	* ensured by natural
Dry wood borers:	Durable; sapwood demarcated (risk limited to sapwood)	durability (according
Termites:	Class M - Moderately durable	EN standards).
Treatability:	3 - poorly permeable	
Biological hazard class*:	3 - not in ground contact, outside exposed	
Note:	Good resistance to white rot. Moderate resistance to brown cubical rot.	

COUNTRIES - LOCAL NAMES

Countries	Local names
Cameroon	EKOBEM
Central African Rep	MOLAPA
Côte d'Ivoire	VAA
Dem Rep of Congo	DITSHIPI
Dem Rep of Congo	LIGUDU
Dem Rep of Congo	LIMBALI
Gabon	ABEUM
Ghana	TETEKON
Liberia	SEHMEH
Nigeria	EKPAGOI EZE

LIMBALI

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 Use not recommended

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

Drying must be handled with care to reduce risks of cracks. Air drying under cover recommended.

SAWING AND MACHINING

Blunting effect:	Fairly high
Sawteeth recommended:	Stellite-tipped
Cutting tools:	Tungsten carbide
Peeling:	Bad
Slicing:	Not recommended or without interest
Note:	Requires power. Log turning sawing recommended as soon as possible after felling (risks of splitting).
ASSEMBLING	

Nailing / Screwing:	Good but pre-boring necessary
Gluing:	Correct (for interior only)

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).

Heavy carpentry Industrial or heavy flooring Exterior joinery Interior joinery Exterior panelling Interior panelling Ship building (planking and deck) Vehicle or container flooring Stairs (inside) Wood frame house