Common name:	IROKO				
Family: Scientific name(s):	MORACEAE Milicia excelsa Milicia regia				
LOG DESCRIPTION			WOOD DESCRIPTION	ON	
Diameter: Thickness of sapwood: Floats: Durability in forest : Note:	from 80 to from 5 to no Moderate (treat recommended) Yellow brown to veins on slab. F surrounded by	100 cm 10 cm ment o more or less brow ossible presence o a darker colour.	Colour: Sapwood: Texture: Grain: Interlocked grain: vn with golden glints. f very hard white calci	Yellow brown Clearly demarcated Coarse Interlocked Slight Ribbon like aspect on qua um carbonate deposits, so	rtersawn, darker ometimes
PHYSICAL PROPERTIES Physical and mechanical p origin and growth condition	properties are base ons. mean st	d on mature heartw andard deviation	MECHANICAL PRC yood specimens. These	DPERTIES e properties can vary grea mean	tly depending on standard deviation
Monnin hardness*:	4 1	0.00	Crushing strength *	· 54 MPa	6

Density .	0.04 g/cm3	0.00		•	ac viution
Monnin hardness*:	4.1	0.9	Crushing strength *:	54 MPa	6
Coef of volumetric shrinkage	e: 0.44 %	0.07	Static handing strangth *:	87 MD	15
Total tangential shrinkage:	5.4 %	0.7	Static bending strength *.	07 Ivir a	15
Total radial shrinkage:	3.5 %	0.4	Modulus of elasticity *:	12840 MPa	2496
Fibre saturation point:	23 %				
Stability:	Moderately stabl	le	(*: at 12 % moisture content	; 1 MPa = 1 N/mm2)

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 1-2 very durable to durable	* ensured by natural	
Dry wood borers:	Durable; sapwood demarcated (risk limited to sapwood)	durability (according	
Termites:	Class D - Durable	EN standards).	
Treatability:	4 - not permeable		
Biological hazard class*:	3 - not in ground contact, outside exposed		
Note:	This species is listed in the European standard NF EN 350-2.		
	The heartwood does not cover the biological hazard class 4 required for end-uses in contact with		
	permanent humidity (example: contact with ground). On the other hand, if the constructive system		
	is well-drained, without water trap, this species can be used outside without any treatment. Heartwood is hardly permeable to preservative products.		

COUNTRIES - LOCAL NAMES				
Countries	Local names	Countries	Local names	
Angola	MOREIRA	Guinea	SIMME	
Benin	LOKOTIN	Liberia	SEMLI	
Cameroon	ABANG	Mozambique	MUFULA	
Congo	KAMBALA	Mozambique	TULE	
Côte d'Ivoire	IROKO	Nigeria	ROKKO	
Dem Rep of Congo	KAMBALA	Sierra Leone	SEMLI	
Dem Rep of Congo	LUSANGA	Belgium	KAMBALA	
Dem Rep of Congo	MOKONGO			
Dem Rep of Congo	MOLOUNDOU			
Equatorial Guinea	ABANG			
Gabon	ABANG			
Gabon	MANDJI			
Ghana	ODOUM			

IROKO

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 Does not require any preservative treatment

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

Spacer sticks often leave marks. A vertical surface drying is recommended before stacking.

SAWING AND MACHINING

Blunting effect:	Fairly high
Sawteeth recommended:	Stellite-tipped
Cutting tools:	Tungsten carbide
Peeling:	Good
Slicing:	Good
Note:	The calcium carbonate deposits in some logs severely damage tools. Very irritant sawdust. Risks
	of tearing (irregular grain).
ASSEMBLING	

ASSEMBLING		
Nailing / Screwing:	Good	
Gluing:	Correct	

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).

Note:	Filling recommended. Wood sometimes resistant to wood finish product: IROKO contains a non-saturated phenolic compound, the chlorophorin, which is a powerful anti-oxidant. It is then necessary to use paints or varnishes without free siccative oil, it is to say, synthetic resin based paints or varnishes such as vynilic paints or polyurethane varnishes that can also be used as undercoat.		
Exterior joinery		Veneer for interior of plywood	
Interior joinery		Veneer for back or face of plywood	
Flooring		Vehicle or container flooring	
Sliced veneer		Bridges (parts not in contact with water or ground)	
Ship building (planking and c	deck)		
Interior panelling			
Cabinetwork (high class furn	niture)		
Turned goods			
Current furniture or furniture	e components		
Light carpentry			
Cooperage			
Glued laminated			
Stairs (inside)			