Common name:	CELTIS D'AFRIQUE		
Family:	ULMACEAE		
Scientific name(s):	Celtis adolfi-friderici		
	Celtis tessmannii		
	Celtis mildbraedii		
	Celtis zenkeri		
	Celtis gomphylla		
Note:	The name CELTIS d'AFRIQUE i	ncludes both commercial	l names DIANIA (C. adolfi-friderici, C.
	tessmannii) and OHIA (C. mildbr	aedii, C. zenkeri, C. gom	phylla).
LOG DESCRIPTION		WOOD DESCRIPTI	ON
Diameter:	from 60 to 110 cm	Colour:	Light yellow
Thickness of sapwood:	from to cm	Sapwood:	Not demarcated
Floats:	yes	Texture:	Medium
Durability in forest :	Low (must be treated)	Grain:	Straight or interlocked
		Interlocked grain:	Slight
Note:	Wood cream white to light yello rewetted wood.	w bordering on light bro	own. Unpleasant odour when green or with

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.

origin and growth condition	5.				
	mean	standard deviation		mean	standard
Density *:	0.74 g/cm	n3 0.07			deviation
Monnin hardness*:	7.0	2.3	Crushing strength *:	59 MPa	7
Coef of volumetric shrinkage	e: 0.55 %	0.07	Static bending strength *:	113 MPa	16
Total tangential shrinkage:	7.8 %	1.0	Static bending strength *.		10
Total radial shrinkage:	4.4 %	0.8	Modulus of elasticity *:	16500 MPa	2319
Fibre saturation point:	28 %				
Stability:	Moderately s	stable	(*: at 12 % moisture content	; 1 MPa = 1 N/mm	n2)
Note:	Hardness var	ries from fairly hard to	o hard.		

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 5 - not durable	* ensured by natural
Dry wood borers:	Susceptible; sapwood not or slightly demarcated (risk in all the wood)	durability (according
Termites:	Class S - Susceptible	EN standards).
Treatability:	1 - easily permeable	
Biological hazard class*:	1 - not in ground contact, under cover (no dampness)	
Note:	Prone to blue stain.	

COUNTRIES - LOCAL NAMES

Countries	Local names	Countries	Local names
Cameroon	ODOU VRAI (DIANIA)	Côte d'Ivoire	ASAN (OHIA)
Congo	KILIAKAMBA (DIANIA)	Côte d'Ivoire	BA (OHIA)
Côte d'Ivoire	LOHONFE (DIANIA)	Dem Rep of Congo	BOLUNDE (OHIA)
Dem Rep of Congo	DIANIA	Dem Rep of Congo	KAYOMBO (OHIA)
Gabon	ENGO (DIANIA)	Ghana	CELTIS (OHIA)
Ghana	ESA-BIRI (DIANIA)	Ghana	ESA-FUFU (OHIA)
Ghana	ESA-KOSUA (DIANIA)	Ghana	ESA-KOKOO (OHIA)
Liberia	LOKONFI (DIANIA)	Kenya	SHIUNZA (OHIA)
Nigeria	DUNKI (DIANIA)	Nigeria	OHIA
Nigeria	ITA (DIANIA)	Uganda	NAMANUKA (OHIA)
Nigeria	ZUWO (DIANIA)	Germany	CELTIS
Uganda	EKEMBE BAKASWA (DIANIA)		
Benin	BAWE (OHIA)		
Cameroon	ODOU (OHIA)		

CELTIS D'AFRIQUE

REQUIREMENT OF A PRESERVATIVE TREATMENT

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

DRYING		Possible dryin	g schedule		
Drying rate: Risk of distortion:	Slow High risk	M.C. (%)	Tempera dry-bulb	ture (°C) wet-bulb	Air humidity (%)
Risk of casehardening: Risk of checking: Risk of collapse:	No High risk No	Green 50 40 30	42 48 48 48	39 43 43 43	82 74 74 74
		15	54	46	63

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:	Defects can be reduced by top weighting the piles and applying end-coating products. Drying
	must be done slowly and carefully.

SAWING AND MACHINING

Blunting effect:	Fairly high
Sawteeth recommended:	Stellite-tipped
Cutting tools:	Tungsten carbide
Peeling:	Good
Slicing:	Good
Note:	Possible difficulties with highly interlocked grain; in this case, special tools are recommended.
	Sometimes, high silica content for C. tessmanii.

ASSEMBLING

ABBEMBERING	
Nailing / Screwing:	Good but pre-boring necessary
Gluing:	Correct
Note:	Tends to split in nailing.

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:	Sawdust may be irritant (OHIA).
Veneer for interio	f plywood
Veneer for back o	ace of plywood
Formwork	
Boxes and crates	
Flooring	
Interior joinery	
Interior panelling	
Moulding	
Turned goods	
Heavy carpentry	
Matches	
Current furniture	furniture components
Stairs (inside)	
Vehicle or contain	flooring
Sliced veneer	