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Family: MORACEAE (angiosperm)

Scientific name(s): Morus mesozygia Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: yellow brown Diameter: from 60 to 90 cm
Sapwood: clearly demarcated Thickness of sapwood: from 5 to 6 cm

Texture: medium Floats: no
Grain: straight or interlocked Log durability: good

Interlocked grain: slight

Note: DIFOU is similar to IROKO. The colour darkens with air and becomes brown.

PHYSICAL PROPERTIES

MECHANICAL AND ACOUSTIC 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>	Std dev.		<u>Mean</u>	Std dev.	
Specific gravity *:	0,84	0,07	Crushing strength *:	86 MPa	6 MPa	
Monnin hardness *:	9,7	2,0	Static bending strength *:	143 MPa	10 MPa	
Coeff. of volumetric shrinkage:	0,46 %	0,08 %	Modulus of elasticity *:	18490 MPa	2100 MPa	
Total tangential shrinkage (TS):	5,7 %	0,5 %				
Total radial shrinkage (RS):	3,2 %	0,4 %	(*: at 12% moisture cor	ontent, with 1 MPa = 1 N/mm²)		
TS/RS ratio:	1,8					
Fiber saturation point:	21 %					
Stability: stable						

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.

F. N. = Furo Norm

Funghi (according to E.N. standards): class 1 - very durable

Dry wood borers: durable - sapwood demarcated (risk limited to sapwood)

Termites (according to E.N. standards): class D - durable

Treatability (according to E.N. standards): class 3 - poorly permeable

Use class ensured by natural durability: class 4 - in ground or fresh water contact

Species covering the use class 5: No

Note: 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

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

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DRYING

Drying rate: normal to slow

Risk of distortion: slight risk

Risk of casehardening: no

Risk of checking: slight risk Risk of collapse: no Possible drying schedule: 2

Temperature (°C)							
	M.C. (%)	dry-bulb	wet-bulb	Air humidity (%)			
	Green	50	47	84			
	40	50	45	75			
	30	55	47	67			
	20	70	55	47			
	15	75	58	44			

This schedule is given for information only and is applicable to thickness lower or equal to 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.

SAWING AND MACHINING

Blunting effect: fairly high
Sawteeth recommended: stellite-tipped
Cutting tools: tungsten carbide

Peeling: bad Slicing: nood

Note: Requires power.

ASSEMBLING

Nailing / screwing: good but pre-boring necessary

Gluing: correct

COMMERCIAL GRADING

Appearance grading for sawn timbers: According to SATA grading rules (1996)

For the "General Purpose Market":

Possible grading for square edged timbers: choix I, choix II, choix IV

Possible grading for short length lumbers: choix I, choix II
Possible grading for short length rafters: choix I, choix II, choix III

For the "Special Market":

Possible grading for strips and small boards (ou battens): choix I, choix III

Possible grading for rafters: choix I, choix II, choix III

FIRE SAFETY

Conventional French grading: Thickness > 14 mm : M.3 (moderately inflammable)

Thickness < 14 mm : M.4 (easily inflammable)

Euroclasses grading: D s2 d0

Default grading for solid wood, according to requirements of European standard EN 14081-1 annex C (April 2000). It appears a trustural graded timber in vertical uses with moon destity upper 0.25 and thickness upper

2009). It concerns structural graded timber in vertical uses with mean density upper 0.35 and thickness upper

22 mm

END-USES

Cabinetwork (high class furniture)

Exterior joinery

Current furniture or furniture components

Stairs (inside) Interior joinery

Hydraulic works (fresh water)

Bridges (parts in contact with water or ground)

Poles

Vehicle or container flooring

Shinales

Bridges (parts not in contact with water or ground)

Flooring

Exterior panelling Sliced veneer Heavy carpentry Interior panelling Sleepers

Industrial or heavy flooring Ship building (planking and deck)

Sculpture

Stakes

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MAIN LOCAL NAMES

Country Local name Country Local name Cameroon Congo KESSE OSSEL Ivory Coast DIFOU Ghana WONTON Mozambique MECOBZE Mozambique MECODZE Central African Republic Nigeria BONDE AYE Democratic Republic of the Congo KANKATE



