Common name:	EBENE D'AFRIQUE		
Family:	EBENACEAE		
Scientific name(s):	Diospyros crassiflora		
	Diospyros mespiliformis		
Note:	· · ·	re a lots of other Diospy lagascar, D. celebica and	ros species, especially in Asia-Océania: d D. rumphii (Ebène de Macassar).
LOG DESCRIPTION		WOOD DESCRIPTI	ON
Diameter:	from 30 to 60 cm	Colour:	Black
Thickness of sapwood:	from 5 to 12 cm	Sapwood:	Clearly demarcated
Floats:	no	Texture:	Fine
Durability in forest :	Good	Grain:	Straight or interlocked
		Interlocked grain:	Slight
Note:	Logs may present different kinds Wood is uniform black to black b		small pinholes and heartwood rots.

## 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 *:	0.90 g/cm	13 0.06			deviation
Monnin hardness*:	7.0	0.6	Crushing strength *:	58 MPa	8
Coef of volumetric shrinkage	: 0.51 %	0.04	Static bending strength *:	130 MPa	31
Total tangential shrinkage:	11.0 %	0.5	Static bending strength .	150 MFa	51
Total radial shrinkage:	7.0 %	0.2	Modulus of elasticity *:	15500 MPa	3500
Fibre saturation point:	29 %				
Stability:	Poorly stable		(*: at 12 % moisture content	; 1 MPa = 1 N/mn	n2)
Note:	Properties ar	e very variable accor	ding to the species and the origi	n; thus, specific g	gravity may
	vary from 0,7	75 to 1,1.			

## 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 - very 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*:	4 - in ground or fresh water contact or hight dampness	

## COUNTRIES - LOCAL NAMES

Countries	Local names	Countries	Local names
Benin	CUBAGA	Nigeria	OSIBIN
Benin	EBENE	Germany	AFRIKANISCHES EBENHOLZ
Cameroon	EPINDE-PINDE	United Kingdom	AFRICAN EBONY
Cameroon	MAVINI		
Cameroon	MEVINI		
Cameroon	NDOU		
Central African Rep	BINGO		
Central African Rep	NGOUBOU		
Congo	MOPINI		
Equatorial Guinea	EBANO		
Gabon	EVILA		
Nigeria	ABOKPO		
Nigeria	KANRAN		
Nigeria	NYARETI		

# EBENE D'AFRIQUE

## 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 dryin	g 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	30 25	42 42	41 39	94 82
		20 15	48 48	43 43	74 74

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.

SAWING AND MACHINII	NG
Blunting effect:	High
Sawteeth recommended:	Stellite-tipped
Cutting tools:	Tungsten carbide
Peeling:	Not recommended or without interest
Slicing:	Good
Note:	For machining and slicing, powerful machines are necessary due to the high hardness. Sawdust
	may cause dermatitis.
ASSEMBLING	
Nailing / Screwing:	Good but pre-boring necessary
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:	A preliminary surface treatment with alcohol is recommended for polyester coatings and undercoats.
Wood-ware	
Turned goods	
Musical instrume	nts
Wind instruments	5
Cabinetwork (hig	h class furniture)
Sculpture	
Tool handles (res	ilient woods)