Common name:	MOGNO		
Family:	MELIACEAE		
Scientific name(s):	Swietenia macrophylla		
	Swietenia humilis		
Note:	In France, Swietenia macrophylla is also called "West Indies Mahogany". It is exploited and used		
	in Martinique. Do not confuse with Swietenia mahagony whose trade is regulated by CITES		
	(Convention on International Tra-	de in Endangered Speci	es of Wild Fauna and Flora).
LOG DESCRIPTION		WOOD DESCRIPTION	N
Diameter:	from 60 to 130 cm	Colour:	Red brown
Thickness of sapwood:	from 2 to 5 cm	Sapwood:	Clearly demarcated
Floats:	yes	Texture:	Medium
Durability in forest :	Moderate (treatment	Grain:	Straight or interlocked
	recommended)	Interlocked grain:	Slight
Note:	Sometimes, 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 *:	0.60 g/cm	3 0.07			deviation
Monnin hardness*:	3.4	0.8	Crushing strength *:	54 MPa	8
Coef of volumetric shrinkage:	0.40 %	0.05	Static handing strength *:	95 MDa	12
Total tangential shrinkage:	3.7 %	0.8	Static bending strength .	os mra	15
Total radial shrinkage:	2.6 %	0.5	Modulus of elasticity *:	10790 MPa	1281
Fibre saturation point:	23 %				
Stability:	stable		(*: at 12 % moisture content	; 1 MPa = 1 N/mr	m2)

# 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) durabilit			
Termites:	Class S - Susceptible EN standard			
Treatability:	4 - not permeable			
Biological hazard class*:	2 - not in ground contact, under cover (dampness possible)			
Note: Part of the MOGNO commercialized today in the world comes from young plantations o				
	constituted by woods with lower properties than the woods from natural forests. These juvenile			
	woods especially present an incomplete duraminisation which explains their lower natural			
	durability compared to the durability of more mature woods.			

## COUNTRIES - LOCAL NAMES

Countries	Local names	Countries	Local names
Bolivia	CAOBA	Germany	MAHONIA
Bolivia	MARA	Italia	MOGANO
Brazil	AGUANO	Spain	CAOBA
Brazil	ARAPUTANGA	United Kingdom	MAHOGANY
Brazil	MOGNO		
Colombia	CAOBA		
Cuba	CAOBA		
Dominican republic	MAHOGANY		
Guatemala	CHACALTE		
Haiti	MAHOGANY		
Peru	AGUANO		
Peru	CAOBA		
Venezuela	ORURA		
France	ACAJOU D'AMERIQUE		

### MOGNO

#### 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:	Rapid Slight risk	M.C. (%)	Tempera dry-bulb	ature (°C) wet-bulb	Air humidity (%)
Risk of casehardening: Risk of checking: Risk of collapse:	No Slight risk No	Green 40 30 20	50 50 55 70 75	47 45 47 55	84 75 67 47

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 MACHINING		
Blunting effect:	Normal	
Sawteeth recommended:	Ordinary or alloy steel	
Cutting tools:	Ordinary	
Peeling:	Good	
Slicing:	Good	
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).

Cabinetwork (high class furniture) Current furniture or furniture components Interior panelling Ship building (planking and deck) Sliced veneer Wood-ware Veneer for interior of plywood Veneer for back or face of plywood Interior joinery Exterior joinery Exterior panelling Turned goods Arched goods Musical instruments Moulding Light carpentry