Common name:	CASTANHEIR	0				
Family: Scientific name(s):	LECYTHIDACEAE Bertholletia excelsa					
LOG DESCRIPTION			WOOD DESCRIPTIO	DN		
Diameter: Thickness of sapwood: Floats: Durability in forest : Note:	from 60 to 120 cm from 3 to 5 cm no Moderate (treatment recommended) Presence of traumatic canals.		Colour: Sapwood: Texture: Grain: Interlocked grain:	Light brown Not clearly demarcated Medium Straight or interlocked Slight		
PHYSICAL PROPERTIES Physical and mechanical pro origin and growth conditions	perties are base	d on mature heartw	MECHANICAL PRO	PERTIES properties	s can vary great	y depending on
Density *:	mean st	andard deviation			mean	standard deviation
Monnin hardness*: Coef of volumetric shrinkage	4.4 : 0.56 %	0.5 0.02	Crushing strength *: Static bending streng	oth *·	56 MPa 89 MPa	4
Total tangential shrinkage: Total radial shrinkage:	10.0 % 4.9 %	2.0 1.0	Modulus of elasticity	/ *:	13950 MPa	370

# NATURAL DURABILITY AND TREATABILITY

Fibre saturation point:

Stability:

Fungi and termite resistance refers to end-uses under temperate climate.

26 %

Moderately stable

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 3 - moderately durable	* ensured by natural
Dry wood borers:	Susceptible; sapwood not or slightly demarcated (risk in all the wood)	durability (according
Termites:	Class M - Moderately durable	EN standards).
Treatability: Biological hazard class*:	<ul><li>3 - poorly permeable</li><li>2 - not in ground contact, under cover (dampness possible)</li></ul>	,

(\*: at 12 % moisture content ; 1 MPa = 1 N/mm2)

COUNTRIES - LOCAL NAMES		
Countries	Local names	
Brazil (Amazon)	CASTANHA DO BRASIL	
Brazil (Amazon)	CASTANHA DO PARA	
Brazil (Amazon)	CASTANHEIRO	
Colombia	CASTANA DEL MARANON	
Venezuela	BRAZIL NUT	
Venezuela	JUBIA	

# CASTANHEIRO

## 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

Rapid to no
Slight risk
No
Slight risk
No

ormal

Note:

A period of surface drying prior to kiln drying is recommended in order to reduce the risks of casehardening for thick material.

### 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 (for interior only)

### 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).

Interior joinery Current furniture or furniture components Cabinetwork (high class furniture) Sliced veneer Veneer for back or face of plywood Heavy carpentry Wood frame house Flooring Vehicle or container flooring Stairs (inside)