

Common name:	CEDRO
Family:	MELIACEAE
Scientific name(s):	Cedrela spp.

LOG DESCRIPTION	WOOD DESCRIPTION
Diameter:	from 60 to 120 cm
Thickness of sapwood:	from 3 to 5 cm
Floats:	yes
Durability in forest :	Moderate (treatment recommended)
Note:	Distinctive cedar scent. Sporadic or sometimes important resin stains. Colour variable, pink to red brown.

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 deviation
Density *:	0.46 g/cm <sup>3</sup>	0.05		
Monnin hardness*:	1.6	0.4	Crushing strength *:	38 MPa
Coef of volumetric shrinkage:	0.38 %	0.05	Static bending strength *:	62 MPa
Total tangential shrinkage:	6.0 %	0.6	Modulus of elasticity *:	9210 MPa
Total radial shrinkage:	3.9 %	0.8		1753
Fibre saturation point:	29 %			
Stability:	stable		(* : at 12 % moisture content ; 1 MPa = 1 N/mm <sup>2</sup> )	
Note:	Specific gravity varies according to origins.			

#### 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 durability (according EN standards).
Dry wood borers:	Durable; sapwood demarcated (risk limited to sapwood)	
Termites:	Class S - Susceptible	
Treatability:	3-4 - poorly or not permeable	
Biological hazard class*:	3 - not in ground contact, outside exposed	
Note:	This species is listed in the European standard NF EN 350-2. Part of the CEDRO commercialized today in the world comes from young plantations often 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. Poorly to moderately resistant to termites.	

#### COUNTRIES - LOCAL NAMES

Countries	Local names
Brazil	CEDRO
French Guiana	CEDRAT
French Guiana	CEDRO
Honduras	CIGARBOX
Surinam	CEDER

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**CEDRO**

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**REQUIREMENT OF A PRESERVATIVE TREATMENT**

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

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**DRYING**

## Possible drying schedule

		Temperature (°C)			Air humidity (%)
		M.C. (%)	dry-bulb	wet-bulb	
Drying rate:	Rapid				
Risk of distortion:	Slight risk				
Risk of casehardening:	No				
Risk of checking:	Slight risk	Green	50	47	84
Risk of collapse:	Yes	40	50	45	75
		30	55	47	67
		20	70	55	47
		15	75	58	44

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This schedule 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: Light wood must be dried at low temperature in order to avoid risks of collapse.

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**SAWING AND MACHINING**

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Blunting effect:	Normal
Sawteeth recommended:	Ordinary or alloy steel
Cutting tools:	Ordinary
Peeling:	Good
Slicing:	Good
Note:	The presence of resin may cause the clogging of saw blades. Surface sometimes fuzzy.

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**ASSEMBLING**

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Nailing / Screwing:	Poor
Gluing:	Correct
Note:	Gluing must be done with care due to resin exudations.

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**END-USES**

Main known end-uses; they must to be implemented according to the code of practice.

Important remark: some end-uses are mentioned for information (traditional, regional or ancient end-uses).

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Note: Mentioned end-uses depend on the specific gravity and on the importance of resin (especially for furniture and interior joinery).

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Veneer for back or face of plywood	Sculpture
Sliced veneer	Formwork
Interior joinery	Wood-ware
Interior panelling	Seats
Cigar boxes	
Cabinetwork (high class furniture)	
Current furniture or furniture components	
Light carpentry	
Glued laminated	
Wood frame house	
Exterior joinery	
Boxes and crates	
Ship building (planking and deck)	
Musical instruments	
Fiber or particle boards	
Shingles	
Moulding	

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