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Family: FABACEAE-MIMOSOIDEAE (angiosperm)

Scientific name(s): Cedrelinga catenaeformis Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: light brown Diameter: from 70 to 120 cm Sapwood: not clearly demarcated Thickness of sapwood: from 5 to 8 cm

Texture: coarse Floats: yes

Grain: straight or interlocked Log durability: low (must be treated)

Interlocked grain: slight

Note: Heartwood light brown with pink or orangey glints. Grain sometimes oblique.

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 *:	0,51	0,08	Crushing strength *:	38 MPa	8 MPa	
Monnin hardness *:	2,0	1,0	Static bending strength *:	70 MPa	13 MPa	
Coeff. of volumetric shrinkage:	0,46 %	0,03 %	Modulus of elasticity *:	10900 MPa	942 MPa	
Total tangential shrinkage (TS):	6,9 %	0,9 %				
Total radial shrinkage (RS):	3,8 %	0,7 %	(*: at 12% moisture con	content, with 1 MPa = 1 N/mm²)		
TS/RS ratio:	1,8					
Fiber saturation point:	29 %		Musical quality factor: 9	97,1 measured	at 2723 Hz	
Stability: n	moderately stable					

Stability: moderately stable

Note: TORNILLO properties vary according to the origin.

NATURAL DURABILITY AND TREATABILITY

Funqi 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. E.N. = Euro Norm

Funghi (according to E.N. standards): class 3 - moderately durable

Dry wood borers: susceptible - sapwood not or slightly demarcated (risk in all the wood)

Termites (according to E.N. standards): class S - susceptible

Treatability (according to E.N. standards): class 2-3 - poorly to moderately permeable

Use class ensured by natural durability: class 2 - inside or under cover (dampness possible)

Species covering the use class 5: No

Note: This species is listed in the European standard NF EN 350-2.

REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: requires appropriate preservative treatment

In case of risk of temporary humidification: requires appropriate preservative treatment

In case of risk of permanent humidification: use not recommended

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DRYING

Drying rate: rapid

Possible drying schedule: 4

Risk of distortion: slight risk

Risk of casehardening: no Risk of checking: slight risk Risk of collapse: no

Temperature (°C)							
	M.C. (%)	dry-bulb	wet-bulb	Air humidity (%)			
	Green	42	39	82			
	50	48	43	74			
	40	48	43	74			
	30	48	43	74			
	15	54	46	63			

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: normal

Sawteeth recommended: ordinary or alloy steel

Cutting tools: ordinary Peeling: good

Slicing: not recommended or without interest

Note: Fuzzy surface. Sawdust can irritate noze and throat. Filling is recommended in order to obtain a better finish.

ASSEMBLING

Nailing / screwing: poor

Gluing: correct

Note: Nails holding varies according to specific gravity

COMMERCIAL GRADING

Appearance grading for sawn timbers: According to NHLA grading rules (January 2007)

Possible grading: FAS, Select, Common 1, Common 2, Common 3

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

END-USES

Formwork Turned goods

Veneer for interior of plywood

Current furniture or furniture components

Boxes and crates Exterior joinery Interior panelling Wood frame house Moulding Interior joinery

Blockboard Pulp

Fiber or particle boards Exterior panelling Glued laminated

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MAIN LOCAL NAMES

Country Country Local name Local name CEDRORANA Colombia ACHAPO Brazil Colombia CEDRORANA Ecuador CHUNCHO Ecuador SEIQUE Ecuador SEIQUI Ecuador **TSAIK** French Guiana DON CEDE CEDRO TORNILLO Peru Peru HUAYRA CASPI TORNILLO Peru

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