Common name: TORNILLO

Family: MIMOSACEAE

Scientific name(s): Cedrelinga catenaeformis

LOG DESCRIPTION WOOD DESCRIPTION

Diameter: from 70 to 120 cm Colour: Light brown

Thickness of sapwood: from 5 to 8 cm Sapwood: Not clearly demarcated

Floats: yes Texture: Coarse

Durability in forest: Low (must be treated) Grain: Straight or interlocked

Interlocked grain: Slight

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

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 *:	0.51 g/cm	3 0.08			deviation
Monnin hardness*:	2.0	1.0	Crushing strength *:	38 MPa	8
Coef of volumetric shrinkage	: 0.46 %	0.03	Static bending strength *:	70 MPa	13
Total tangential shrinkage:	6.9 %	0.9	Static bending strength .		13
Total radial shrinkage:	3.8 %	0.7	Modulus of elasticity *:	10900 MPa	942
Fibre saturation point:	29 %				
Stability:	Moderately s	table	(*: at 12 % moisture content	; 1 MPa = 1 N/mn	n2)
Note:	TORNILLO properties vary according to the origin.				

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 3 - moderately durable

Dry wood borers: Susceptible; sapwood not or slightly demarcated (risk in all the wood)

Termites: Class S - Susceptible

Treatability: 2-3 - poorly to moderately permeable

Biological hazard class*: 2 - not in ground contact, under cover (dampness possible)

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

* ensured by natural durability (according EN standards).

COUNTRIES - LOCAL NAMES

Countries	Local names	
Brazil	CEDRORANA	
Colombia	ACHAPO	
Colombia	CEDRORANA	
Ecuador	CHUNCHO	
Ecuador	SEIQUE	
Ecuador	SEIQUI	
Ecuador	TSAIK	
French Guiana	DON CEDE	
Peru	CEDRO TORNILLO	
Peru	HUAYRA CASPI	
Peru	TORNILLO	

TORNILLO

REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: Requires appropriate preservative treatment In case of temporary humidification risk: Requires appropriate preservative treatment

In case of permanent humidification risk: Use not recommended

DRYING	Possible drying	Possible drying schedule				
Drying rate: Risk of distortion: Risk of casehardening: Risk of checking: Risk of collapse:	Rapid Slight risk No Slight risk No	M.C. (%)	Tempera dry-bulb	uture (°C) wet-bulb	Air humidity (%)	
		Green 50 40 30 15	42 48 48 48 54	39 43 43 43 44 46	82 74 74 74 63	

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: 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.

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).

Formwork

Moulding

Turned goods

Interior joinery

Veneer for interior of plywood

Blockboard

Current furniture or furniture components

Pulp

Boxes and crates

Fiber or particle boards

Exterior joinery

Exterior panelling

Interior panelling

Glued laminated

Wood frame house