

## Cerejeira

Family. Fabaceae

Botanical Name(s).

*Amburana cearensis*

*Torresea cearensis* (synonymous)

Continent. Latin America

CITES. This species is not listed in the CITES Appendices (Washington Convention 2023).

### Description of logs

Diameter. From 50 to 90 cm

Thickness of sapwood. From 5 to 8 cm

Floats. Yes

Log durability. Moderate (treatment recommended)

### Description of wood

Colour reference. Yellow brown

Sapwood. Not clearly demarcated

Texture. Coarse

Grain. Straight or interlocked

Interlocked grain. Slight

Notes. Scent similar to vanilla. Wood sometimes veined.

### Physics and mechanics

*The properties indicated are for mature wood. These properties may vary significantly depending on the origin and growing conditions of the wood.*

Property	Average value
Specific gravity <sup>1</sup>	0.59
Monnin hardness <sup>1</sup>	2.7
Coefficient of volumetric shrinkage	0.41 % per %
Total tangential shrinkage (St)	4.5 %
Total radial shrinkage (Sr)	2.4 %
Ratio St/Sr	1.9
Fibre saturation point	19 %
Thermal conductivity (λ)	0.20 W/(m.K)
Lower heating value	
Crushing strength <sup>1</sup>	45 MPa
Static bending strength <sup>1</sup>	73 MPa
Modulus of elasticity <sup>1</sup>	10,980 MPa

<sup>1</sup> At 12 % moisture content, with 1 MPa = 1 N/mm

### Natural durability and preservation

Resistance to fungi. Class 3 - moderately durable



Half-quarter sawn



Flat sawn

Resistance to dry wood borers. Class S - susceptible (risk in all the wood)

Resistance to termites. Class M - moderately durable

Treatability. Class 2 - moderately permeable

Use class ensured by natural durability.

Class 2 - inside or under cover (dampness possible)

Notes. This species is listed in the European standard NF EN 350 (2016).

## Requirement of a preservative treatment

Against dry wood borer. Requires appropriate preservative treatment

In case of temporary humidification. Requires appropriate preservative treatment

In case of permanent humidification. Use not recommended

## Drying

Drying rate. Slow

Risk of distorsion. Slight risk

Risk of casehardening. Yes

Risk of checking. Slight risk

Risk of collapse. No known specific risk

Suggested drying program.

Phases	Duration (H)	MC (%) probes	T (°C)	Rh (%)	UGL (%)
<b>Prewarm 1</b>		> 50	50	86	16.5
<b>Prewarm 2</b>	3	> 50	52	85	16.0
<b>Drying</b>		> 50	55	82	14.7
		50 - 40	55	80.0	13.8
		40 - 35	55	75.0	12.6
		35 - 30	56	73.0	12.0
		30 - 27	58	67.0	10.5
		27 - 24	60	58.0	8.9
		24 - 21	62	50.0	7.5
		21 - 18	64	45.0	6.8
		18 - 15	65	37.0	5.7
		15 - 12	65	34.0	5.3
		12 - 9	65	28.0	4.5
		9 - 6	65	24.0	4.0
<b>Conditioning</b>	6		58	(3)	(2)
<b>Cooling</b>	(1)		Stop	(3)	(2)

(1) ) Cooling: until the temperature inside the kiln no longer exceeds external temperature by more than 30 °C.

(2) UGL = final H% x 0,8 to 0,9.

(3) Subtract RH from the UGL determined in (2) and temperature, using the Hailwood-Horrobin equation.

## Sawing and machining

Blunting effect. Normal

Sawteeth recommended. Ordinary or alloy steel

Cutting tools. Ordinary

Peeling. Good

Slicing. Good

## Assembling

Nailing and screwing. Good

## Commercial grading

Appearance grading for sawn timbers.

According to ATIBT grading rules, possible grade: FAS (First And Second), n°1 Common and select, n°2 Common

Visual grading for structural applications

According to French standard NF B 52-001-1 (2018), strength class D18 can be provided by visual grading.

## Fire safety

Conventional French grading.

Thickness > 14 mm: M3 (moderately inflammable)

Thickness < 14 mm: M4 (easily inflammable)

Euroclasses grading. D-s2, d0

Default grading for solid wood, according to requirements of European standard EN 14081-1+A1 (August 2019). It concerns structural graded timber in vertical uses and ceiling with mean density upper 0.35 and thickness upper 22 mm.

## End-uses

- Blockboard
- Cabinetwork (high class furniture)
- Cooperage
- Current furniture or furniture components
- Exterior joinery
- Interior joinery
- Interior panelling
- Light carpentry
- Moulding
- Sculpture
- Sliced veneer
- Veneer for back or face of plywood
- Wood frame house

Notes. Filling is recommended.

## Main local names

Country	Local name
Argentina	Palo trebol
Argentina	Roble del pais
Bolivia	Soryoko
Brazil	Amburana
Brazil	Cerejeira
Brazil	Cumaru de cheiro
Brazil	Imburana
Peru	Ishpingo