



Catucaém / louro faia

Family. Proteaceae Botanical Name(s).

Roupala brasiliensis

Continent. Latin America

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

Description of logs

Diameter. From 50 to 70 cm

Thickness of sapwood. From 1 to 4 cm

Floats. Yes

Log durability. Good

Description of wood

Colour reference. Brown

Sapwood. Clearly demarcated

Texture. Coarse

Grain. Straight to entangled

Interlocked grain. Absent

Notes. Sapwood light reddish brown. Heartwood reddish brown to dark brown. Very characteristic silver figure due to wide and high rays.

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 ¹	0.70
Monnin hardness ¹	
Coefficient of volumetric shrinkage	
Total tangential shrinkage (St)	12.3 %
Total radial shrinkage (Sr)	6.3 %
Ratio St/Sr	2.0
Fibre saturation point	24 %
Thermal conductivity (λ)	0.23 W/(m.K)
Lower heating value	
Crushing strength ¹	
Static bending strength ¹	
Modulus of elasticity ¹	
¹ At 12 % moisture content with 1 MPa = 1 N/mm	

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

Natural durability and preservation

Resistance to fungi. Class 2 to 3 - durable to moderately durable



Quarter sawn





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Resistance to dry wood borers. Class D - durable (sapwood demarcated, risk limited to sapwood)

Resistance to termites. Class D - durable

Treatability. Class 3-4 - poorly or not permeable

Use class ensured by natural durability.

Class 3 - not in ground contact, outside

Requirement of a preservative treatment

Against dry wood borer. Does not require any preservative treatment
In case of temporary humidification. Does not require any preservative treatment
In case of permanent humidification. Requires appropriate preservative treatment

Drying

Drying rate. Normal

Risk of distorsion. Slight risk

Risk of casehardening. No known specific risk

Risk of checking. Slight risk

Risk of collapse. No known specific risk

Notes.

Suggested drying program.

Phases	Duration (H)	MC (%) probes	T (°C)	Rh (%)	UGL (%)
Prewarm 1		> 50	50	87	17.0
Prewarm 2	4	> 50	50	86	16.5
Drying		> 50	53	85	15.7
		50 - 40	53	82.0	14.6
		40 - 35	54	78.0	13.4
		35 - 30	55	77.0	12.9
		30 - 27	57	73.0	11.9
		27 - 24	58	68.0	10.7
		24 - 21	60	61.0	9.3
		21 - 18	62	52.0	7.9
		18 - 15	64	43.0	6.6
		15 - 12	65	39.0	6.0
		12 - 9	65	31.0	5.0
		9 - 6	65	28.0	4.5
Conditioning	8		58	(3)	(2)
Cooling	(1)		Stop	(3)	(2)

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

Sawing and machining

Blunting effect. Normal

Sawteeth recommended. No information available

Cutting tools. Ordinary

Peeling. Not recommended or without interest

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⁽²⁾ UGL = final H% \times 0,8 to 0,9.

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



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Slicing. Good

Notes. Liable to split during machining.

Assembling

Nailing and screwing. Good but pre-boring necessary

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

No visual grading for structural applications

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

- Cabinetwork (high class furniture)
- Flooring
- Sculpture
- Sliced veneer
- Turned goods
- Wood-ware

Notes. Due to very marked silver figure, possible applications in turnery and cabinet work.

Main local names

Country	Local name
Brazil	Carvalho
Brazil	Carvalho do brazil
Brazil	Catucaém
Brazil	Louro faia
Costa Rica	Danto carne
Ecuador	Roble
Panama	Arbol carne
Venezuela	Chaparro