

Maporokon

Family. Fabaceae-Mimosoideae

Botanical Name(s).

Inga alba

Inga pezizifera

Inga p.p.

Continent. Latin America

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

Notes. The genus *Inga* is composed of numerous species with variable properties; this data sheet only concerns *Inga alba*.

Description of logs

Diameter. From 40 to 70 cm

Thickness of sapwood. -

Floats. No

Log durability. Low (treatment necessary)

Description of wood

Colour reference. Pinkish brown

Sapwood. Not demarcated

Texture. Coarse

Grain. Straight or interlocked

Interlocked grain. Slight

Notes. Light pinkish brown to red brown. Grain sometimes wavy.

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	0.66
Monnin hardness ¹	3.2
Coefficient of volumetric shrinkage	0.43 % per %
Total tangential shrinkage (St)	6.9 %
Total radial shrinkage (Sr)	3.4 %
Ratio St/Sr	2.0
Fibre saturation point	29 %
Thermal conductivity (λ)	0.22 W/(m.K)
Lower heating value	18,870 kJ/kg
Crushing strength ¹	54 MPa
Static bending strength ¹	85 MPa
Modulus of elasticity ¹	14,600 MPa

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



Half-quarter sawn



Quarter sawn

Natural durability and preservation

Resistance to fungi. Class 4 - poorly durable

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

Resistance to termites. Class S - susceptible

Treatability. Class 3-4 - poorly or not permeable

Use class ensured by natural durability.

Class 2 - inside or under cover (dampness possible)

Requirement of a preservative treatment

Against dry wood borer. Requires appropriate preservative treatment

In case of temporary humidification. Use not recommended

In case of permanent humidification. Use not recommended

Drying

Drying rate. Rapid to 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

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	83	15.2
		50 - 40	53	80.0	14.1
		40 - 35	54	80.0	13.9
		35 - 30	55	75.0	12.5
		30 - 27	57	70.0	11.0
		27 - 24	58	61.0	9.4
		24 - 21	59	51.0	7.9
		21 - 18	60	47.0	7.3
		18 - 15	61	39.0	6.1
		15 - 12	62	35.0	5.6
		12 - 9	62	30.0	5.0
		9 - 6	62	26.0	4.4
Conditioning	8		55	(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.

(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. Not recommended or without interest

Assembling

Nailing and screwing. Good

Notes. Tendency to woolliness.

Commercial grading

Appearance grading for sawn timbers.

According to NHLA grading rules (2015) Possible grading: FAS, Select, Common 1, Common 2, Common 3 In French Guiana, the local name of this species is "Bougouni". Grading is done according to local rules "Bois guyanais classés". Possible grading: choix 1, choix 2, choix 3, choix 4

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

- Boxes and crates
- Flooring
- Formwork
- Glued laminated
- Interior joinery
- Light carpentry
- Veneer for interior of plywood
- Wood frame house

Notes. Filling recommended.

Main local names

Country	Local name
Argentina	Inga
Brazil	Inga
Brazil	Inga-chi-chi
Brazil	Inga-chi-chica
Brazil	Ingazeira
French Guiana	Bois pagode
French Guiana	Bougouni
French Guiana	Lebi oueko
French Guiana	Oueko
Guyana	Kurang
Guyana	Kwari

Country	Local name
Guyana	Kwariye
Guyana	Maporokon
Guyana	Yokar
Suriname	Aboonkini
Suriname	Prokonie
Venezuela	Bunzquillo
Venezuela	Guamo