



JATOBA

Source

FSC Jatoba is available in the forests of Precious Woods, located in the Amazon region of Brazil. The large trees attain heights up to 40 m and diameters up to 1 m. The trunk has a fairly straight shape, which makes it possible to produce larger dimensions.

Appearance

The heartwood has a pink red to orange red color, darkening to (dark) red brown. Often with a pattern of small black stripes. The grey brown sapwood is easy to distinguish. The heartwood has a nice lustre. The grain is straight, sometimes interlocked. The texture is fine to medium fine.

Processing properties

Despite the high density, machining can be done fairly easy, resulting in a smooth surface. The gluing and finishing properties (including oil/stain) are rather good, even though the surface is very closed. Pre-drilling is recommended. Drying goes well, with few problems.

Application

Jatoba is used for a wide range of applications:

- interior: e.g. flooring, parquet, stairs, furniture and window frames
- exterior: e.g. cladding, doors, window frames, constructions and garden furniture

Technical properties

Green density	1.000 – 1.200 kg/m ³
Density (at 12%)	900 kg/m ³
Shrinkage green – oven dry	3,0% radial; 6,4% tangential
Shrinkage green – 65% RH (abt. 12% EMC)	0,8% radial; 1,9% tangential
Equilibrium Moisture Content (EMC)	10,5% (at 60% RH) 17,5% (at 90% RH)
Fibre Saturation Point (FSP)	23%
Durability according to EN 113 (without soil contact)	Heartwood class 1
Durability according to literature	Heartwood class 1 (depending on botanical species)
Bending strength, MOR (defect free samples)	160 N/mm ²
Modulus of elasticity, MOE (defect free samples)	23.460 N/mm ²
Shear strength (defect free samples)	17,2 N/mm ²
Janka hardness	11.200 N (transversal); 10.400 N (parallel)
Chemical composition	Cellulose: 42,8%; Hemicellulose: 25,8%; Lignine: 31,4%
<i>The figures in this table are mainly indicative, unless a specific standard is mentioned, which provides exact figures.</i>	

References

This information is based on research (mainly independent) and experience of Precious Woods, (semi-) scientific literature and the (Dutch) Houtvademecum (10th edition 2010).