



JARANA

Source

FSC Jarana is available in the forests of Precious Woods, located in the Amazon region of Brazil. The trunks have a large shape, which makes it possible to produce larger dimensions. Jarana is mainly imported as round wood for piles, and also in sawn wood for posts.

Appearance

Freshly cut, the heartwood has a light brown to red brown color. After drying and exposure it darkens to red brown. The sapwood is lighter and easy to distinguish. The lustre is medium. Jarana has often traumatic resin canals, appearing as a few mm wide lines on the surface. The grain is straight, sometimes interlocked. The texture is medium fine.

Processing properties

Machining of this heavy species goes relatively well. There is a slight blunting effect due to the Silica content. Pre-drilling is recommended. Drying goes quickly, but must be done with care to avoid checking and deformation.

Application

Jarana is used in exterior uses like hydraulic constructions, piles, sleepers and sea defence constructions.

Technical properties

Green density	1.250 kg/m ³
Density (at 12%)	900 – 1.200 kg/m ³
Shrinkage green – oven dry	6,2% radial; 8,3% tangential
Durability according to ENV 807 (with soil contact)	Heartwood class 2
Durability according to literature	Heartwood class 1
Bending strength, MOR (defect free samples)	208 N/mm ²
Modulus of elasticity, MOE (defect free samples)	18.930 N/mm ²
Shear strength (defect free samples)	15,2 N/mm ²
Janka hardness	9.322 N (transversal); 9.365 N (parallel)
Strength class (EN 338)	D40 *)
The figures in this table are mainly indicative, unless a specific standard is mentioned, which provides exact figures. *) This value is determined by testing 40 full scale samples. A higher value is expected by testing more samples.	

References

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