



PADOUK

Source

FSC Padouk is available in the forests of Precious Woods, located in the Congo Basin of Gabon. The tree attains heights up to 35 m and diameters normally between 50 and 100 cm. The trunks are straight and cylindrical and have buttress root boards.

Appearance

Freshly sawn Padouk has a beautiful, bright orange-red color, darkening quickly to dull red-brown and in the long term to black-brown after exposure. The 100 - 200 mm thick sapwood has off-white to cream color and is easy to distinguish. The wood structure is straight and sometimes interlocked. The texture is medium coarse to coarse.

Processing properties

The machining of Padouk can be done easily. Pre-drilling is necessary. The gluing properties are good, and as a result of the resin the finishing is somewhat difficult. It dries rather slowly, with small risks of cracking. The sawdust can cause allergic reactions.

Application

The beautiful Padouk has excellent properties and is often used for facades (interior and exterior), door and window frames, doors and windows. Furthermore it is also used for decorative reasons in joinery, parquet, floors and stairs.

Technical properties

Green density	900-1.000 kg/m ³
Density (at 12%)	720-820 kg/m ³
Shrinkage green – oven dry	3,2% radial; 5,0% tangential
Shrinkage green – 65% RH (abt. 12% EMC)	1,0% radial; 2,0% tangential
Equilibrium Moisture Content (EMC)	10,0% (at 60% RH) 14,0% (at 90% RH)
Fibre Saturation Point (FSP)	21%
Durability according to EN 350:2016	Heartwood class 1 (in-ground tested) Heartwood class 1 (tested without ground)
Bending strength, MOR (defect free samples)	121 N/mm ²
Modulus of elasticity, MOE (defect free samples)	13.500 N/mm ²
Shear strength (defect free samples)	12,2 N/mm ²
Janka hardness	6.860 N (parallel)
The figures in this table are mainly indicative, unless a specific standard is mentioned, which provides exact figures.	

References

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