KOTIBÉ

Source

FSC Kotibé is available in the forests of Precious Woods, located in the Congo Basin of Gabon. The tree attains heights up to 40 m and diameters normally between 60 cm and 80 cm. The trunks are straight and cylindrical and have buttress root boards.

Appearance

Freshly sawn Kotibé has a reddish brown color, darkening after exposure to deep red brown (Mahogany-brown). The structure is rather uniform and there is no clear pattern. The 20-50 mm thick sapwood has a light brown color, with a pinkish tint. It is easy to distinguish from the heartwood. Kotibé contains a white constituent. The wood grain is irregular and interlocked. The texture is medium coarse.

Processing properties

The machining of Kotibé can be done easily, altough the Interlocked grain causes a blunting effect on the tools. Pre-drilling is recommended. The gluing and finishing properties are good. It dries rather slowly, with risks of cracking and deformation.

Application

Kotibé can be used for interior and exterior use, for example door and window frames, doors and windows. Furthermore it could be used for facades, panelling, furniture, stairs and parquet.

Technical properties

Green density	850-1.050 kg/m^3
Density (at 12%)	710-760 kg/m^3
Shrinkage green – oven dry	4,2% radial; 7,1% tangential
Shrinkage green – 65% RH (abt. 12% EMC)	2,2% radial; 3,9% tangential
Equilibrium Moisture Content (EMC)	14,5% (at 60% RH) 20,0% (at 90% RH)
Fibre Saturation Point (FSP)	30%
Durability according to EN 350:2016	Heartwood class 3v (in-ground tested)
Bending strength, MOR (defect free samples)	130 N/mm^2
Modulus of elasticity, MOE (defect free samples)	12.500 N/mm^2
Shear strength (defect free samples)	18,7 N/mm^2
Janka hardness	9.500 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).

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