



DABÉMA

Source

FSC Dabéma is available in the forests of Precious Woods, located in the Congo Basin of Gabon. The tree attains heights up to 45 m and diameters between 70 cm and 120 cm. The trunks are straight and cylindrical and often have large buttress root boards.

Appearance

Freshly sawn Dabéma has a yellow brown to gold brown color. The 30-50 mm thick sapwood has a greyish white color and is easy to distinguish. Freshly cut Dabéma has an unpleasant ammonia smell, which diminishes during drying and which later disappears. The wood structure is straight to irregular and often interlocked. The interlocked grain causes wide streaking on the radial face. The texture is coarse.

Processing properties

The machining of Dabéma can not be done easily, because of the interlocked grain and the blunting effect on the tools. Pre-drilling is recommended. The gluing properties are moderate to bad. In addition, the finishing properties are complex and it is advised to fill the pores before applying a coating. Dabéma dries slowly, with risk of deformation (mainly thin dimensions).

Application

Dabéma is used for truck and wagon flooring and for structural applications as a substitute for Oak. It is strongly advised to use only thick dimensions, since small dimensions are not stable. After careful drying, it can be used for quarter sawn flooring elements.

Technical properties

Green density	900-1.000 kg/m ³
Density (at 12%)	690 kg/m ³
Shrinkage green – oven dry	4,0% radial; 9,5% tangential
Shrinkage green – 65% RH (abt. 12% EMC)	2,5% radial; 5,0% tangential
Equilibrium Moisture Content (EMC)	12,0% (at 60% RH) 20,0% (at 90% RH)
Fibre Saturation Point (FSP)	27%
Durability according to EN 113 (without soil contact)	Heartwood class 2
Durability according to EN 350:2016	Heartwood class 3 (in-ground tested) Heartwood class 2 (tested without ground)
Bending strength, MOR (defect free samples)	104 N/mm ²
Modulus of elasticity, MOE (defect free samples)	12.000 N/mm ²
Shear strength (defect free samples)	15,5 N/mm ²
Janka hardness	6.850 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).