



MUIRAPIRANGA

Source

FSC Muirapiranga is available in the forests of Precious Woods located in the Amazon region of Brazil. The trees attain heights of 40 m and diameters of 50 to 100 cm. The trunk is straight and cylindrical. The clear bole attains lengths up to 20 m. Due to the wide zone of sapwood and juvenile wood, the production is limited to small and thin dimensions.

Appearance

The heartwood varies from yellowish brown to dark red brown, with now and then darker stripes. It has a warm and special lustre. The yellowish white sapwood can easily be distinguished. The grain is mainly straight and the texture is fine. This timber more or less resembles African Padouk. The sawdust can cause allergic reactions.

Processing properties

Despite the high density and the hardness, Muirapiranga can be machined rather easily, resulting in a smooth surface. Pre-drilling is recommended. There is positive experience regarding the gluing and finishing. Several finishes (like polishing) give the wood surface a beautiful appearance. Drying goes quickly, but has to be done with care due to the risk of end checking. In the end use situation, the timber is slightly nervous.

Application

This very exclusive and decorative species is used for several interior applications like furniture and flooring. As a result of the high durability, it is also suitable for exterior uses.

Technical properties

Green density	1.250 kg/m ³
Density (at 12%)	1.100 kg/m ³
Shrinkage green – oven dry	4,1% radial; 6,1% tangential
Shrinkage green – 65% RH (abt. 12% EMC)	1,3% radial; 1,8% tangential
Equilibrium Moisture Content (EMC)	6,9% (at 65% RH water adsorption) 11,6% (at 65% RH water desorption)
Fibre Saturation Point (FSP)	21%
Durability according to literature	Heartwood class 2
Bending strength, MOR (defect free samples)	162 N/mm ²
Modulus of elasticity, MOE (defect free samples)	28.130 N/mm ²
Shear strength (defect free samples)	13,4 N/mm ²
Janka hardness	10.500 N (transversal); 9.000 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).