Tali

Atibt
Tali; NEN-EN 13556: missanda (GB), tali (F), Tali (D), code EYXX

Other Names
Elone, eloun (Kameroen, Gabon), n'kassa, sass-wood (Congo), potrodom (Ghana), tali (Ivoorkust, Senegal), missanda (Mozambique), erun (Nigeria), gogbei (Sierra Leone), mvavi (Tanzania), kassa (Democratische Republiek Congo), mauve (Zambia).

Botanical Name
Erythrophleum ivorense A. Chev.

Family
Leguminosae (Caesalpiniaceae)

Growing area
Tropical Africa.

Tree Description	Height averages 30-40m. The rarely straight trunk varies in diameter from 0.8-1.5m and is usually branch-free up to half the tree height The trunk has low rootlets and often has an uneven cross-section. Growing in the savannah, trees usually reach 15-20m in height.
Supply	Roundwood and sawnwood.
Wood Description	Freshly felled heartwood is yellow to orange-brown. After exposure to light and air, this darkens to dark brown or dark red-brown. The relatively narrow sapwood, which can reach a maximum width of 60 mm, is yellow-grey to darker yellow. Quite large colour differences can occur in tali, however. Sometimes slightly darker coloured streaks occur.
Timber recognition	Heavy, hard, brown in colour, with dark colour stripes, on head surface aliform parenchyma, quartered surface with cross-hatched stripe markings, fluoresces yellow-gold.
Thread	Crosshair .
Nerf	Moderately coarse to coarse.
Volumetric mass	(800-)900(-1100) kg/m3 at 12% moisture content, fresh about 1000-1200 kg/m3 (moisture content about 40%).
Shrinkage	Radial 1.3% and tangential 2.3%.
Drying	Slow

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Hardness	Longitudinal plane 12900 N.
Machinability	Due to its high voluminous mass and cross-thread, tali is quite difficult to machine and tools stump quickly. Good extraction is necessary as tali contains substances that are harmful to health and can cause nues and throat irritation.
Nailing and Screwing	Pre-drilling required.
Glueing	Good.
Bending	Not known
Surface finishing	Good, with a solvent-based system and with a water-based system.
Impregnability	Heartwood 4, sapwood not known (according to NEN-EN 350).
Applications	Heavy structures outdoors, such as waterworks and bridges. For flooring, parquet, thresholds, hubs, cushion blocks and pulleys, turning and otherwise the same applications as azobé.
Strength Class	Divided into D35 and D40

Durability

Relative resistance to fungi
Heartwood class 1 (NEN-EN 350: practical experience and field research), class 1 (NEN-EN 252: field research method).

Relative resistance to animal organisms
Heartwood: drywood borers D, termites D and marine borers D (NEN-EN 350).

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