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## Ekki / Azobé

Scientific Name: Lophira alata



**Distribution:** West Africa and extending into the Congo Basin; occurs in evergreen and moist deciduous forests, in freshwater swamp forest, and close to riverbanks.

**The Tree:** May attain a height of 160 ft. with a long clear bore to 100 ft.; trunk diameters 5 to 6 ft.; without buttresses but lower position of the bore sometimes swollen.

**General Characteristics:** Heartwood dark red, chocolate brown, or purple brown with conspicuous white deposits in the vessels; sapwood up to 2 in. wide, pale pink, well defined. Texture coarse; grain usually interlocked; luster low; without characteristic odor or taste.

Weight: Basic specific gravity (ovendry weight/green volume) about 0.90; air-dry density 70 pcf.

Mechanical Properties: (2 cm standard)

Moisture Content (%)	Bending Strength (Psi)	Modulus of Elasticity (1,000 Psi)	Max. Crushing Strength (Psi)
Green (9)	17,800	2,010	9,920
12%	25,800	2,450	13,120
12%	33,200	3,180	15,200
NOTE: duplicate values under "Moisture Content" represent multiple tests conducted at different times.			

Janka side hardness 2,900 lb. for green material and 3,350 lb. for dry. Amsler toughness 625 in. lb. at 12% moisture content (2-cm standard).

**Drying and Shrinkage:** Very difficult to season without excessive degrade, particularly surface and end checking; dries slowly. Kiln schedule T2-C2 is suggested for 4/4 stock and T2-C1 for 8/4. Shrinkage green to ovendry: radial 8.4%; tangential 11.0%; volumetric 17.0%. Movement is service is rated as medium.

**Working Properties:** Very difficult to work with hand and machine tools; severe blunting effect if machined when dry; can be dressed to a smooth finish; gluing properties usually good.

**Durability:** Heartwood is rated as very durable but only moderately resistant to termite attack. Resistant to acids. Good weathering properties. Resistant to teredo attack.

**Preservation:** Heartwood is rated as extremely resistant to preservation treatments and the sapwood resistant.

**Uses:** Heavy durable construction work, harbor work, heavy-duty flooring, parquet flooring, railroad crossties.