



TIDESAFE™

DINIZIA

Botanical name: Dinizia excelsa
ATIBT name: Angelim Vermelho

Freshly cut, the heartwood of Dinizia is yellow-brown in colour, usually with streaks and often an orangey tint, darkening to a red-brown. The sapwood is pink and cannot always be differentiated clearly from the heartwood. When fresh and dry, Dinizia has a strong odor, the acidic smell dissipates over time but may be noticed after substantial rains.

Ideal applications in marine and industrial applications where strength and longevity are the priority. The wood can be used in similar situations as Azobé, and Greenheart. Suitable for Heavy Construction work such as hydro-engineering, bridges, dockwork, sheet piling, & industrial flooring.

Dinizia is not suitable for interior use due to its odor.

Available in Sheet Piling, Rough or Finished:



Technical Properties

Resistance to fungi:

class 1 (very durable)

Resistance to insects:

Termites class D/4 (sapwood and heartwood very durable)

Resistance to Marine Borers:

Marine borers class D in Northern European conditions,
Naturally Class 5 durability (Suitable for Marine and Brackish Applications)

Strength class: D70 (NEN-EN 338)

Crushing Strength: 89 MPa

Modulus of Elasticity: 26,280 MPa

Bending Strength: 160 MPa

Density:

(950)-1000-(1050) kg/m³ at 12% moisture content

Fresh 1450 kg/m³



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GREENHEART

Botanical name: Chlorocardium rodiei
ATIBT name: Greenheart

The heartwood of Demerara Greenheart is light to dark olive green, sometimes marked with brown or black streaks. The differences in colour can occur in one and the same trunk, which sometimes gives Demerara Greenheart a colourful appearance. The sapwood is light yellow or greenish, usually 30-60 mm thick and has no marked transition with the heartwood.

Due to its great durability, the strength and the large dimensions in which the wood is available, it is used mainly for heavy construction work (hydraulic works, bridge and shipbuilding, lock gates and harbour works).

Greenheart Piling have been used for over 100 years in Northeast due to both its resistance, density, and flexibility.

Available as Piling, Boards and Beams:



Technical Properties

Resistance to fungi:

class 1 (very durable)

Resistance to insects:

Termites class D/4 (sapwood and heartwood very durable)

Resistance to Marine Borers:

Marine borers class D in Northern European conditions,
Naturally Class 5 durability (Suitable for Marine and Brackish Applications)

Strength class: D70 (NEN-EN 338)

Crushing Strength: 98 MPa

Modulus of Elasticity: 30,400 MPa

Bending Strength: 217 MPa

Density:

(950)-970-1020-(1200) kg/m³ at 12% moisture content

Fresh 1300 kg/m³



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AZOBE EKKI

Botanical name: Lophira alata
ATIBT name: Azobe (Ekki, Bongossi)

When fresh Azobé's heartwood is reddish-brown, discolouring to dark-red and chocolate-brown, sometimes to a violet-coloured dark red-brown. Azobé has markedly white to yellow coloured constituents in the pores. In general, the structure is fairly regular.

Because of its great strength, consistency and durability, Azobé is widely used as construction material in hydraulic engineering for lock gates, fendering, flood-control, jetties, bridges, bridge decks, shore piling, noise barriers, dragline mats, and support structures for heavy machinery

Available as Rough or Finished Boards and Beams



Technical Properties

Resistance to fungi:

class 1 (very durable)

Resistance to insects:

Termites class D/4 (sapwood and heartwood very durable)

Resistance to Marine Borers:

Marine borers class D in Northern European conditions,
Naturally Class 5 durability (Suitable for Marine and Brackish Applications)

Strength class: D70 (NEN-EN 338)

Crushing Strength: 96 MPa

Modulus of Elasticity: 21,420 MPa

Bending Strength: 162 MPa

Density:

(940)-1060-(1100) kg/m³ at 12% moisture content

Fresh 1,100-1300 kg/m³



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