MAKORE



Family: SAPOTACEAE (angiosperm)
Scientific name(s): Tieghemella heckilii

Tieghemella africana

Dumoria spp. (synonymous)

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: red brown Sapwood: red brown clearly demarcated

Texture: medium

Grain: straight or interlocked

Interlocked Grain: marked but not frequent

Note: Some logs are floatable. Wood is dark pinkish brown to dark red brown, sometimes with purplish glints and/or pale veins slightly

distinct. Often moiré

Diameter: 35 – 51 inches **Thickness of Sapwood:** 1.6–3.15 inches

Musical Quality Factor: 92.5 measured at 2213 Hz

Floats: yes Log Durability: good

PHYSICAL PROPERTIES

MECHANICAL/ACOUSTIC

Physical and mechanical properties are based on mature heartwood specimens. These properties can vary greatly depending on origin and growth conditions.

Std. Dev. <u>Mean</u> <u>Mean</u> Specific Gravity*: 0.69 0.05 Crushing Strength*: 8,557 lbf Janka Hardness (lbs): 1,200 Static Bending Strength*: 14,213 lbf Volumetric Shrinkage: 0.48% 0.05% Modulus of Elasticity*: 2,008,772 lbf

Volumetric Shrinkage: 0.48% 0.05% Modulus of Elasticity*: 2,008,772 lbf
Total Tangential Shrinkage (TS): 7.3% 0.5%

TS/RS Ratio: 1.3

0.6%

Fiber Saturation Point: 28% *At 12% moisture content.

5.6%

Stability: Moderately stable to stable

Total Radial Shrinkage (RS):

NATURAL DURABILITY AND TREATABILITY

Fungi and termite resistance refers to end-uses under temperate climate. Except for special comments on sapwood, natural durability is based on mature heartwood. Sapwood must always be considered as non-durable against wood degrading agents. E.N. = Euro Norm

Funghi (According to E.N. standards): class 1 - very durable

Dry Wood Borers: class D - durable (sapwood demarcated, risk limited to sapwood)

Termites (According to E.N. standards): class D - durable **Treatability (according to E.N. standards):** class 4 - not permeable

Use class ensured by natural durability: class 4 - in ground or fresh water contact

Species covering the use class 5: yes

Note:

This species is listed in the European standard NF EN 350-2. It naturally covers the use class 5 (end-uses in marine environment or in brackish water) due to its high silica content.

According to the European standard NF EN 335, performance length might be modified by the intensity of end-use exposition.

REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: does not require any preservative treatment In case of risk of temporary humidification: does not require any preservative treatment In case of risk of permanent humidification: does not require any preservative treatment

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DRYING

Drying Rate: normal **Risk of Distortion:** slight risk Risk of Casehardening: Risk of Checking: slight risk Risk of Collapse: no

Possible Drying Schedule: 2

Note: Initial surface drying prior to kiln drying is recommended in

order to reduce defects.

Temperature (*1)			
M.C. (%)	Dry-Bulb	Wet-Bulb	Air Humidity (%)
Green	122	116.6	84
40	122	113	75
30	131	116.6	67
20	158	131	47
15	167	136.4	44

good but pre-boring necessary

Temperature (0F)

This schedule is given for information only and is applicable to thickness lower or equal to 1.5 in. It must be used in compliance with the code of practice. For thickness from 1.5 to 3 in, the air relative humidity should be increased by 5% at each step. For thickness over 3 in, a 10% increase should be considered.

SAWING AND MACHINING

ASSEMBLING

Blunting Effect: Nailing / screwing: Sawteeth Recommended: stellite-tipped Gluing: correct

Note: **Cutting Tools:** tungsten carbide

Peeling: good Slicing: good

high

Note: Sawdust is very irritant. Sawblades can sometimes become

clogged.

Tends to split when nailing. Gluing requires care (dense wood)

END-USES

MAIN LOCAL NAMES

Exterior Joinery

Flooring

Bridges (parts no in contact with ground or water)

Exterior paneling Sliced veneer **Light carpentry**

Ship building (planking and deck) Veneer for back or face of plywood

Sculpture Interior joinery Stairs (interior)

Current furniture or furniture components

Cabinetwork (high class furniture)

Ship building (ribs)

Veneer for interior of plywood

Vehicle or container flooring

Turned goods

Local Name Country Cameroon Nom Adjap Elang

Ivory Coast Makore Ghana Baku, Abacu France Douka Congo N'Duka **Equatorial Guinea** Okola Germany Douka

Works Cited:

CIRAD'S Biomass, Wood, Energy, Bioproducts Research Unit (BioWooEB) Meier, E. (2015), Wood, United States of America