

Common name:	MOVINGUI
Family:	CAESALPINIACEAE
Scientific name(s):	Distemonanthus benthamianus

LOG DESCRIPTION	WOOD DESCRIPTION		
Diameter:	from 60 to 90 cm	Colour:	Yellow
Thickness of sapwood:	from 2 to 4 cm	Sapwood:	Clearly demarcated
Floats:	no	Texture:	Medium
Durability in forest :	Moderate (treatment recommended)	Grain:	Interlocked
Note:	Lemon-yellow to yellow brown. Some logs present a highly figured wood. Possible presence of internal stresses and wind shakes.		

PHYSICAL PROPERTIES			MECHANICAL PROPERTIES		
Physical and mechanical properties are based on mature heartwood specimens. These properties can vary greatly depending on origin and growth conditions.					
	mean	standard deviation		mean	standard deviation
Density *:	0.73 g/cm ³	0.06	Crushing strength *:	64 MPa	11
Monnin hardness*:	5.6	1.7	Static bending strength *:	116 MPa	13
Coef of volumetric shrinkage:	0.54 %	0.10	Modulus of elasticity *:	14740 MPa	3053
Total tangential shrinkage:	5.8 %	1.0			
Total radial shrinkage:	3.6 %	0.6			
Fibre saturation point:	23 %				
Stability:	Moderately stable to stable		(* : at 12 % moisture content ; 1 MPa = 1 N/mm ²)		
Note:					

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.

Fungi:	Class 3 moderately durable	* ensured by natural durability (according EN standards).
Dry wood borers:	Durable; sapwood demarcated (risk limited to sapwood)	
Termites:	Class M - Moderately durable	
Treatability:	4 - not permeable	
Use class*:	2 - inside or under cover (dampness possible)	
Note:	This species is listed in the European standard NF EN 350-2. The MOVINGUI cannot be used without appropriate preservative treatment for end-uses under use class 3, except for some parts of a work such as windows, less exposed than others (entrance doors, shutters ...). This species is used for exterior joinery in tropical area but its use in temperate area is limited as it is prone to Coriolus versicolor fungi attacks.	

MAIN LOCAL NAMES	
Countries	Local names
Benin	AYAN
Cameroon	EYEN
Côte d'Ivoire	BARRE
Equatorial Guinea	EYEN
Gabon	MOVINGUI
Gabon	EYEN
Ghana	AYAN
Ghana	BONSAMDUA
Nigeria	AYAN
Nigeria	AYANRAN
United Kingdom	AYAN
United Kingdom	DISTEMONANTHUS

MOVINGUI

REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks:	Does not require any preservative treatment
In case of temporary humidification risk:	Requires appropriate preservative treatment
In case of permanent humidification risk:	Use not recommended

DRYING

Possible drying schedule

Drying rate:	Normal	Temperature (°C)			Air humidity (%)
		M.C. (%)	dry-bulb	wet-bulb	
Risk of distortion:	Slight risk	Green	50	47	84
Risk of casehardening:	No	40	50	45	75
Risk of checking:	Slight risk	30	55	47	67
Risk of collapse:	No	20	70	55	47
		15	75	58	44

This schedule is given for information only and is applicable to thickness < 38 mm.

It must be used in compliance with the code of practice.

For thickness from 38 to 75 mm , the air relative humidity should be increased by 5 % at each step.

For thickness over 75 mm , a 10 % increase should be considered.

SAWING AND MACHINING

Blunting effect:	High
Sawteeth recommended:	Stellite-tipped
Cutting tools:	Tungsten carbide
Peeling:	Good
Slicing:	Good
Note:	Some difficulties due to irregular grain. Filling is recommended in order to obtain a better finish.

ASSEMBLING

Nailing / Screwing:	Good but pre-boring necessary
Gluing:	Correct
Note:	Pre-boring recommended, especially for large nails (risks of splits).

END-USES

Main known end-uses; they must to be implemented according to the code of practice.

Important remark: some end-uses are mentionned for information (traditional, regional or ancient end-uses).

Note:	MOVINGUI contains water-soluble yellow extracts that can stain the elements in contact with wood under moisture conditions.
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Sliced veneer

Veneer for back or face of plywood

Wood frame house

Exterior joinery

Interior joinery

Interior panelling

Exterior panelling

Flooring

Stairs (inside)

Cooperage

Arched goods

Cabinetwork (high class furniture)

Current furniture or furniture components

Glued laminated

Vehicle or container flooring

Turned goods

Shingles

Resistant to one or several acids

Light carpentry
