

Common name:	AIEOUEKO
Family:	CAESALPINIACEAE
Scientific name(s):	Dimorphandra polyandra

LOG DESCRIPTION	WOOD DESCRIPTION		
Diameter:	from 60 to 75 cm	Colour:	Brown
Thickness of sapwood:	from 4 to 6 cm	Sapwood:	Not clearly demarcated
Floats:	no	Texture:	Coarse
Durability in forest :	Moderate (treatment recommended)	Grain:	Straight or interlocked
		Interlocked grain:	Slight
Note:	Logs are frequently irregularly shaped. Frequent brittleheart. Wood light yellow when sawn, quickly turning light brown to brown or reddish brown. Grain usually straight but sometimes slight irregular interlocked grain.		

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 *:	0.71 g/cm ³	0.02			
Monnin hardness*:	3.9	0.7	Crushing strength *:	62 MPa	4
Coef of volumetric shrinkage:	0.57 %	0.08	Static bending strength *:	107 MPa	81
Total tangential shrinkage:	8.2 %	1.1	Modulus of elasticity *:	15100 MPa	1221
Total radial shrinkage:	4.6 %	1.3			
Fibre saturation point:	27 %				
Stability:	Moderately stable to stable		(* : at 12 % moisture content ; 1 MPa = 1 N/mm ²)		

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:	Susceptible; sapwood not or slightly demarcated (risk in all the wood)	
Termites:	Class M - Moderately durable	
Treatability:	No information available	
Use class*:	2 - inside or under cover (dampness possible)	

MAIN LOCAL NAMES

Countries	Local names
French Guiana	AIEOUEKO
Guyana	DAKAMA
Surinam	ANJAMA

AIEOUEKO

REQUIREMENT OF A PRESERVATIVE TREATMENT

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

DRYING

Drying rate:	Normal
Risk of distortion:	High risk
Risk of casehardening:	No
Risk of checking:	Slight risk
Risk of collapse:	No

SAWING AND MACHINING

Blunting effect:	Normal
Sawteeth recommended:	Ordinary or alloy steel
Cutting tools:	Ordinary
Peeling:	Not recommended or without interest
Slicing:	Not recommended or without interest
Note:	Possible presence of internal stresses. Low yield < 30 % (brittleheart).

ASSEMBLING

Nailing / Screwing:	Good
Gluing:	Correct

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).

Exterior joinery
Interior joinery
Current furniture or furniture components
Light carpentry
Boxes and crates
