

Common name:	ALEP
Family:	IRVINGIACEAE
Scientific name(s):	Desbordesia glaucescens

LOG DESCRIPTION		WOOD DESCRIPTION	
Diameter:	from 90 to 100 cm	Colour:	Yellow brown
Thickness of sapwood:	from 5 to 8 cm	Sapwood:	Clearly demarcated
Floats:	no	Texture:	Fine
Durability in forest :	No information available	Grain:	Straight
		Interlocked grain:	Absent
Note:	Logs must be sawn quickly after felling (cracks during drying). Wood turns to dark brown with air. Dark veins more or less numerous.		

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 *:	1.05 g/cm ³	0.05	Crushing strength *:	80 MPa	15
Monnin hardness*:	10.9	0.8	Static bending strength *:	157 MPa	13
Coef of volumetric shrinkage:	0.67 %	0.15	Modulus of elasticity *:	23390 MPa	3350
Total tangential shrinkage:	10.9 %	0.6			
Total radial shrinkage:	6.8 %	0.4			
Fibre saturation point:	28 %				
Stability:	Poorly 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 1 - very durable	* ensured by natural durability (according EN standards).
Dry wood borers:	Durable; sapwood demarcated (risk limited to sapwood)	
Termites:	Class D - Durable	
Treatability:	3 - poorly permeable	
Biological hazard class*:	4 - in ground or fresh water contact or high dampness	
Note:	Due to its high specific gravity and hardness, this species naturally covers the biological hazard class 5 (end-uses in marine environment and brackish water).	

COUNTRIES - LOCAL NAMES

Countries	Local names
Cameroon	OMANG
Congo	BENGA
Dem Rep of Congo	BENGA
Gabon	ALEP

ALEP

REQUIREMENT OF A PRESERVATIVE TREATMENT

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

DRYING

Possible drying schedule

Drying rate:	Slow	Temperature (°C)			Air humidity (%)
		M.C. (%)	dry-bulb	wet-bulb	
Risk of distortion:	High risk	Green	40	37	82
Risk of casehardening:	No information available	40	44	38	68
Risk of checking:	High risk	30	44	36	59
Risk of collapse:	No information available	20	46	36	52
		15	49	37	46

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: Fairly high
Sawteeth recommended: Stellite-tipped
Cutting tools: Tungsten carbide
Peeling: Not recommended or without interest
Slicing: Not recommended or without interest
Note: Requires power.

ASSEMBLING

Nailing / Screwing: Good but pre-boring necessary
Gluing: Correct (for interior only)
Note: Gluing must be done with care (very dense wood).

END-USES

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

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

Heavy carpentry

Sleepers

Posts

Bridges (parts in contact with water or ground)

Vehicle or container flooring

Hydraulic works (fresh water)

Bridges (parts not in contact with water or ground)
