

Family: RHIZOPHORACEAE (angiosperm)

Scientific name(s): Poga oleosa

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

Color: pinkish white
Sapwood: clearly demarcated
Texture: coarse
Grain: straight
Interlocked grain: absent

Note: Silver figure on quartersawn due to broad rays. Lustrous aspect. Grain sometimes slightly wavy.

LOG DESCRIPTION

Diameter: from 80 to 100 cm
Thickness of sapwood: from 2 to 5 cm
Floats: yes
Log durability: moderate (treatment recommended)

PHYSICAL PROPERTIES

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

| | <u>Mean</u> | <u>Std dev.</u> |
|----------------------------------|-------------|-----------------|
| Specific gravity *: | 0,47 | 0,05 |
| Monnin hardness *: | 1,6 | 0,6 |
| Coeff. of volumetric shrinkage: | 0,45 % | 0,09 % |
| Total tangential shrinkage (TS): | 7,3 % | 0,9 % |
| Total radial shrinkage (RS): | 2,7 % | 0,3 % |
| TS/RS ratio: | 2,7 | |
| Fiber saturation point: | 33 % | |
| Stability: stable | | |

MECHANICAL AND ACOUSTIC PROPERTIES

| | <u>Mean</u> | <u>Std dev.</u> |
|----------------------------|-------------|-----------------|
| Crushing strength *: | 38 MPa | 2 MPa |
| Static bending strength *: | 63 MPa | 6 MPa |
| Modulus of elasticity *: | 9320 MPa | 1451 MPa |

(*: at 12% moisture content, with 1 MPa = 1 N/mm²)

Musical quality factor: 114,5 measured at 2780 Hz

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 3 - moderately durable

Dry wood borers: durable - sapwood demarcated (risk limited to sapwood)

Termites (according to E.N. standards): class S - susceptible

Treatability (according to E.N. standards): class 1 - easily permeable

Use class ensured by natural durability: class 2 - inside or under cover (dampness possible)

Species covering the use class 5: No

REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: does not require any preservative treatment

In case of risk of temporary humidification: requires appropriate preservative treatment

In case of risk of permanent humidification: use not recommended

DRYING

Drying rate: rapid to normal

Risk of distortion: slight risk

Risk of casehardening: no

Risk of checking: slight risk

Risk of collapse: yes

Note: Tendency to distortion on backsawn. Drying rate between each board is highly variable.

Possible drying schedule: 2

| M.C. (%) | Temperature (°C) | | Air humidity (%) |
|----------|------------------|----------|------------------|
| | dry-bulb | wet-bulb | |
| Green | 50 | 47 | 84 |
| 40 | 50 | 45 | 75 |
| 30 | 55 | 47 | 67 |
| 20 | 70 | 55 | 47 |
| 15 | 75 | 58 | 44 |

This schedule is given for information only and is applicable to thickness lower or equal to 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: normal

Sawteeth recommended: ordinary or alloy steel

Cutting tools: ordinary

Peeling: good

Slicing: good

Note: Rays can make polishing difficult.

ASSEMBLING

Nailing / screwing: poor

Gluing: correct

COMMERCIAL GRADING

Appearance grading for sawn timbers: According to SATA grading rules (1996)

For the "General Purpose Market":

Possible grading for square edged timbers: choix I, choix II, choix III, choix IV

Possible grading for short length lumbers: choix I, choix II

Possible grading for short length rafters: choix I, choix II, choix III

For the "Special Market":

Possible grading for strips and small boards (ou battens): choix I, choix II, choix III

Possible grading for rafters: choix I, choix II, choix III

FIRE SAFETY

Conventional French grading: Thickness > 14 mm : M.3 (moderately inflammable)

Thickness < 14 mm : M.4 (easily inflammable)

Euroclasses grading: D s2 d0

Default grading for solid wood, according to requirements of European standard EN 14081-1 annex C (April 2009). It concerns structural graded timber in vertical uses with mean density upper 0.35 and thickness upper 22 mm.

END-USES

Veneer for interior of plywood

Current furniture or furniture components

Moulding

Glued laminated

Interior joinery

Blockboard

Note: Filling is necessary in order to obtain a good finish.

Veneer for back or face of plywood

Sliced veneer

Light carpentry

Formwork

Fiber or particle boards

Boxes and crates

MAIN LOCAL NAMES

| <u>Country</u> | <u>Local name</u> | <u>Country</u> | <u>Local name</u> |
|----------------|-------------------|-------------------|-------------------|
| Cameroon | ANGALE | Congo | OHELE |
| Gabon | OVOGA | Equatorial Guinea | AFO |
| Nigeria | ENOI | United Kingdom | POGA |

