Family: RHIZOPHORACEAE (angiosperm)
Scientific name(s): Poga oleosa
Commercial restriction: no commercial restriction

### WOOD DESCRIPTION

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>pinkish white</td>
</tr>
<tr>
<td>Sapwood</td>
<td>clearly demarcated</td>
</tr>
<tr>
<td>Texture</td>
<td>coarse</td>
</tr>
<tr>
<td>Grain</td>
<td>straight</td>
</tr>
<tr>
<td>Interlocked grain</td>
<td>absent</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Mean</th>
<th>Std dev</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific gravity *:</td>
<td>0.47</td>
<td>0.05</td>
</tr>
<tr>
<td>Monnin hardness *:</td>
<td>1.6</td>
<td>0.6</td>
</tr>
<tr>
<td>Coeff. of volumetric shrinkage</td>
<td>0.45 %</td>
<td>0.09 %</td>
</tr>
<tr>
<td>Total tangential shrinkage (TS)</td>
<td>7.3 %</td>
<td>0.9 %</td>
</tr>
<tr>
<td>Total radial shrinkage (RS)</td>
<td>2.7 %</td>
<td>0.3 %</td>
</tr>
<tr>
<td>TS/RS ratio</td>
<td>2.7</td>
<td></td>
</tr>
<tr>
<td>Fiber saturation point</td>
<td>33 %</td>
<td></td>
</tr>
<tr>
<td>Stability</td>
<td>stable</td>
<td></td>
</tr>
</tbody>
</table>

### MECHANICAL AND ACOUSTIC PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Mean</th>
<th>Std dev</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crushing strength *:</td>
<td>38 MPa</td>
<td>2 MPa</td>
</tr>
<tr>
<td>Static bending strength *:</td>
<td>63 MPa</td>
<td>6 MPa</td>
</tr>
<tr>
<td>Modulus of elasticity *:</td>
<td>9320 MPa</td>
<td>1451 MPa</td>
</tr>
<tr>
<td>(*: at 12% moisture content, with 1 MPa = 1 N/mm²)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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

- **Fungi (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 5 - 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

<table>
<thead>
<tr>
<th>M.C. (%)</th>
<th>Temperature (°C)</th>
<th>Air humidity (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>dry-bulb</td>
<td>wet-bulb</td>
</tr>
<tr>
<td>40</td>
<td>50</td>
<td>45</td>
</tr>
<tr>
<td>30</td>
<td>55</td>
<td>47</td>
</tr>
<tr>
<td>20</td>
<td>70</td>
<td>55</td>
</tr>
<tr>
<td>15</td>
<td>75</td>
<td>58</td>
</tr>
</tbody>
</table>

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.

SAWING AND MACHINING

Blunting effect: normal
Sawteeth recommended: ordinary or alloy steel
Cutting tools: ordinary
Peeling: good
Slicing: nood
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

<table>
<thead>
<tr>
<th>Country</th>
<th>Local name</th>
<th>Country</th>
<th>Local name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cameroon</td>
<td>ANGALE</td>
<td>Congo</td>
<td>OHELE</td>
</tr>
<tr>
<td>Gabon</td>
<td>OVOGA</td>
<td>Equatorial Guinea</td>
<td>AFO</td>
</tr>
<tr>
<td>Nigeria</td>
<td>ENOI</td>
<td>United Kingdom</td>
<td>POGA</td>
</tr>
</tbody>
</table>
### Specific Gravity

- 0.2: Very light
- 0.3: Light
- 0.4: Medium
- 0.5: Heavy
- 0.6: Very heavy

### Monnin Hardness

- 1: Very soft
- 2: Soft
- 3: Medium
- 4: Hard
- 5: Very hard

### Coefficient of Volumetric Shrinkage (%)

- 0.3: Low
- 0.4: Medium
- 0.5: High

### Total Tangential Shrinkage (%)

- 4: Low
- 5: Medium
- 6: High

### Total Radial Shrinkage (%)

- 2: Low
- 4: Medium
- 6: High

### Crushing Strength (MPa)

- 10: Low
- 20: Medium
- 30: High

### Static Bending Strength (MPa)

- 25: Low
- 50: Medium
- 75: High

### Modulus of Elasticity (≤1000 MPa)

- 6: Low
- 12: Medium
- 24: High

### Resistance to Fungi

- Not durable
- Poorly durable
- Moderately durable
- Durable
- Very durable

### Resistance to Dry Wood Insects Borer

- Susceptible
- Durable

### Resistance to Termites

- Susceptible
- Moderately durable
- Durable

### Treatability

- Not permeable
- Poorly permeable
- Moderately permeable
- Easily permeable

### Stability

- Poorly stable
- Moderately stable
- Stable

### Fibers Saturation Point

- 15%: Low
- 25%: Medium
- 35%: High
- 45%: Not applicable