Family: RHIZOPHORACEAE (angiosperm)
Scientific name(s): Anopyxis klaineana
Commercial restriction: no commercial restriction

WOOD DESCRIPTION

- Color: light brown
- Sapwood: not clearly demarcated
- Texture: medium
- Grain: straight
- Interlocked grain: absent

Note: Wood light brown with pink or ochre shades. Grain sometimes wavy.

LOG DESCRIPTION

- Diameter: from 60 to 100 cm
- Thickness of sapwood:
- Floats: no
- Log durability: low (must be treated)

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Mean</th>
<th>Std dev</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific gravity *:</td>
<td>0.89</td>
<td>0.03</td>
</tr>
<tr>
<td>Monnin hardness *:</td>
<td>7.0</td>
<td>3.2</td>
</tr>
<tr>
<td>Coeff. of volumetric shrinkage</td>
<td>0.65%</td>
<td>0.05%</td>
</tr>
<tr>
<td>Total tangential shrinkage (TS)</td>
<td>10.3%</td>
<td>1.1%</td>
</tr>
<tr>
<td>Total radial shrinkage (RS)</td>
<td>6.2%</td>
<td>0.4%</td>
</tr>
<tr>
<td>TS/RS ratio</td>
<td>1.7</td>
<td></td>
</tr>
<tr>
<td>Fiber saturation point:</td>
<td>30%</td>
<td></td>
</tr>
<tr>
<td>Stability: moderately stable</td>
<td></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>75 MPa</td>
<td>10 MPa</td>
</tr>
<tr>
<td>Static bending strength *:</td>
<td>132 MPa</td>
<td>16 MPa</td>
</tr>
<tr>
<td>Modulus of elasticity *:</td>
<td>20290 MPa</td>
<td>2225 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 5 - not durable
  - Dry wood borers: susceptible - sapwood not or slightly demarcated (risk in all the wood)
  - Treatability (according to E.N. standards): class 1 - easily permeable
  - Use class ensured by natural durability: class 1 - inside (no dampness)
  - Species covering the use class 5: No
  - Note: Prone to blue stain.

REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: requires appropriate 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: slow
Risk of distortion: high risk
Risk of casehardening: no
Risk of checking: high risk
Risk of collapse: no

Possible drying schedule: 5

<table>
<thead>
<tr>
<th>M.C. (%)</th>
<th>Temperature (°C)</th>
<th>Air humidity (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>dry-bulb</td>
<td>wet-bulb</td>
</tr>
<tr>
<td>30</td>
<td>42</td>
<td>41</td>
</tr>
<tr>
<td>25</td>
<td>42</td>
<td>39</td>
</tr>
<tr>
<td>20</td>
<td>48</td>
<td>43</td>
</tr>
<tr>
<td>15</td>
<td>48</td>
<td>43</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.
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: stellite-tipped
Cutting tools: tungsten carbide
Peeling: not recommended or without interest
Slicing: nood
Note: Requires power.

ASSEMBLING

Nailing / screwing: good but pre-boring necessary
Gluing: correct (for interior only)

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 lumber: 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

Industrial or heavy flooring
Heavy carpentry
Interior joinery
Turned goods
Vehicle or container flooring
Exterior joinery
Interior panelling
Sliced veneer
# 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>NOUDOUGOU</td>
<td>Congo</td>
<td>PAMIEL</td>
</tr>
<tr>
<td>Ivory Coast</td>
<td>BODIOA</td>
<td>Gabon</td>
<td>EVAM</td>
</tr>
<tr>
<td>Ghana</td>
<td>KOKOTI</td>
<td>Nigeria</td>
<td>EKIAWA</td>
</tr>
<tr>
<td>Nigeria</td>
<td>OTUTU</td>
<td>Central African Republic</td>
<td>MOBOMA</td>
</tr>
<tr>
<td>Democratic Republic of the Congo</td>
<td>BOBENKUSU</td>
<td>Sierra Leone</td>
<td>KPOUMUSI</td>
</tr>
</tbody>
</table>
### Table

<table>
<thead>
<tr>
<th>Property</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific gravity</td>
<td>0.2 - 1.2</td>
</tr>
<tr>
<td>Monnin hardness</td>
<td>1 - 20</td>
</tr>
<tr>
<td>Coefficient of volumetric shrinkage (%)</td>
<td>0.3 - 0.8</td>
</tr>
<tr>
<td>Total tangential shrinkage (%)</td>
<td>4 - 12</td>
</tr>
<tr>
<td>Total radial shrinkage (%)</td>
<td>2 - 10</td>
</tr>
<tr>
<td>Crushing strength (MPa)</td>
<td>0 - 110</td>
</tr>
<tr>
<td>Static bending strength (MPa)</td>
<td>25 - 200</td>
</tr>
<tr>
<td>Modulus of elasticity (≤1000 MPa)</td>
<td>6 - 32</td>
</tr>
</tbody>
</table>

### Graphs

- **Resistance to fungi**
  - Not durable
  - Poorly durable
  - Moderately durable
  - Durable
  - Very durable

- **Resistance to dry wood insects borers**
  - 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
  - 30% - 35% - High
  - 45% - Very high