

Family: CLUSIACEAE (angiosperm)

Scientific name(s): Platonias insignis

Commercial restriction: no commercial restriction

## WOOD DESCRIPTION

Color: yellow brown  
Sapwood: clearly demarcated  
Texture: coarse  
Grain: straight  
Interlocked grain: absent  
Note: Presence of ringshakes in logs.

## LOG DESCRIPTION

Diameter: from 60 to 80 cm  
Thickness of sapwood: from 3 to 9 cm  
Floats: no  
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 *:              | 0,85        | 0,05            |
| Monnin hardness *:               | 6,2         | 1,8             |
| Coeff. of volumetric shrinkage:  | 0,68 %      | 0,07 %          |
| Total tangential shrinkage (TS): | 10,0 %      | 0,8 %           |
| Total radial shrinkage (RS):     | 5,4 %       | 0,4 %           |
| TS/RS ratio:                     | 1,9         |                 |
| Fiber saturation point:          | 27 %        |                 |
| Stability: poorly stable         |             |                 |

## MECHANICAL AND ACOUSTIC PROPERTIES

|                            | <u>Mean</u> | <u>Std dev.</u> |
|----------------------------|-------------|-----------------|
| Crushing strength *:       | 73 MPa      | 3 MPa           |
| Static bending strength *: | 147 MPa     | 17 MPa          |
| Modulus of elasticity *:   | 22610 MPa   | 3100 MPa        |

(\*: at 12% moisture content, with 1 MPa = 1 N/mm<sup>2</sup>)

Musical quality factor: 138 measured at 2861 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 2 - durable

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

Termites (according to E.N. standards): class D - durable

Treatability (according to E.N. standards): class 3 - poorly permeable

Use class ensured by natural durability: class 3 - not in ground contact, outside

Species covering the use class 5: No

Note: According to the European standard NF EN 335, performance length might be modified by the intensity of end-use exposition.

## REQUIREMENT OF A PRESERVATIVE TREATMENT

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

In case of risk of temporary humidification: does not require any preservative treatment

In case of risk of permanent humidification: use not recommended

## DRYING

Drying rate: normal to slow

Risk of distortion: high risk

Risk of casehardening: no

Risk of checking: high risk

Risk of collapse: no

Note: Must be dried slowly and carefully.

Possible drying schedule: 4

| M.C. (%) | Temperature (°C) |          | Air humidity (%) |
|----------|------------------|----------|------------------|
|          | dry-bulb         | wet-bulb |                  |
| Green    | 42               | 39       | 82               |
| 50       | 48               | 43       | 74               |
| 40       | 48               | 43       | 74               |
| 30       | 48               | 43       | 74               |
| 15       | 54               | 46       | 63               |

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: fairly high

Sawteeth recommended: stellite-tipped

Cutting tools: tungsten carbide

Peeling: not recommended or without interest

Slicing: nood

Note: Requires power. Silica content is variable.

## ASSEMBLING

Nailing / screwing: good but pre-boring necessary

Gluings: correct (for interior only)

## COMMERCIAL GRADING

Appearance grading for sawn timbers: According to NHLA grading rules (January 2007)

Possible grading: FAS, Select, Common 1, Common 2, Common 4

In French Guiana, the local name of this species is "PARCOURI". Grading is done according to local rules "Bois guyanais classés".

Possible grading: Choix 1, choix 2, choix 3, choix 4

## 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

Stairs (inside)

Cabinetwork (high class furniture)

Exterior joinery

Heavy carpentry

Flooring

Current furniture or furniture components

Interior joinery

Sliced veneer

## MAIN LOCAL NAMES

CountryLocal name

|          |           |
|----------|-----------|
| Brazil   | BACURI    |
| Brazil   | BACURIUBA |
| Guyana   | PAKURI    |
| Suriname | GOELHART  |

CountryLocal name

|               |            |
|---------------|------------|
| Brazil        | BACURI-AÇU |
| Ecuador       | MATAZAMA   |
| French Guiana | PARCOURI   |
| Suriname      | PAKOELI    |

