Family: LAURACEAE (angiosperm)

Scientific name(s): Sextonia rubra

Ocotea rubra (synonymous)

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: light brown Diameter: from 50 to 90 cm Sapwood: clearly demarcated Thickness of sapwood: from 3 to 5 cm

Texture: medium Floats: no

Grain: interlocked Log durability: moderate (treatment recommended)

Interlocked grain: slight

Note: Light wood with pink to red brown shades. Possible presence of wind shakes

PHYSICAL PROPERTIES

MECHANICAL AND ACOUSTIC 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>	Std dev.		Mean	Std dev.
Specific gravity *:	0,66	0,04	Crushing strength *:	51 MPa	8 MPa
Monnin hardness *:	2,5	0,8	Static bending strength *:	81 MPa	9 MPa
Coeff. of volumetric shrinkage:	0,54 %	0,06 %	Modulus of elasticity *:	14170 MPa	2604 MPa
Total tangential shrinkage (TS):	8,8 %	1,5 %			
Total radial shrinkage (RS):	4,5 %	1,2 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)		
TS/RS ratio:	2,0				
Fiber saturation point:	29 %		Musical quality factor: 9	5,3 measured	at 2451 Hz
Stability:	moderately stable				

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 4 - not permeable

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

Species covering the use class 5: Yes

Note: This species is listed in the European standard NF EN 350-2.

It naturally covers the use class 5 (end-uses in marine environment or in brackish water). However, it is not recommended to use it in case of strong mechanical constraints due to its soft hardness. 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: slow Possible drying schedule: 4

Risk of distortion: slight risk

Temperature (°C) wet-bulb Risk of casehardening: yes M.C. (%) dry-bulb Air humidity (%) Risk of checking: high risk Green 42 39 82 50 48 43 74 Risk of collapse: yes 48 74 40 43 Note: High temperature steaming (80°C) improves drying. 30 48 43 74 Drying is not recommended for thickness > 40 mm. 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: normal

Sawteeth recommended: ordinary or alloy steel

Cutting tools: ordinary
Peeling: good
Slicing: nood

ASSEMBLING

Nailing / screwing: poor

Gluing: correct

Note: Nails holding is variable. Gluing is correct with dry woods.

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 "GRIGNON FRANC". 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

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

Interior joinery

Current furniture or furniture components

Ship building (planking and deck)

Exterior joinery Moulding

Veneer for interior of plywood

Cabinetwork (high class furniture)

Boxes and crates

Bridges (parts not in contact with water or ground)

Shingles

Note: Drying problems may restrict end-uses.

Interior panelling

Open boats

Sliced veneer

Exterior panelling

Wood frame house

Veneer for back or face of plywood

Turned goods

Light carpentry

Formwork

MAIN LOCAL NAMES

CountryLocal nameBrazil (Amazon)GAMELABrazil (Amazon)LOURO VERMELHOGuyanaDETERMAGuyanaWANUSurinameTETEROMAUnited KingdomDETERMA

Country
Brazil (Amazon)
Guyana
Guyana
French Guiana
Suriname

LOCAL NAME
LOURO GAMELA
BAAKA
RED LOURO
GRIGNON FRANC
WANA



