Family: CLUSIACEAE (angiosperm)

Scientific name(s): Moronobea coccinea

Commercial restriction: no commercial restriction

Note: Also called MANNIBALLI. Do not confuse MANIL MONTAGNE with MANIL or MANIL MARECAGE (Symphonia globulifera).

#### WOOD DESCRIPTION

#### LOG DESCRIPTION

Color: yellow brown Diameter: from 50 to 80 cm
Sapwood: clearly demarcated Thickness of sapwood: from 3 to 5 cm

Texture: medium Floats: no
Grain: straight Log durability: good

Interlocked grain: absent

Note: Wood light yellow slightly veined. Grain sometimes wavy in the periphery of logs.

# 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 *:	0,90	0,05	Crushing strength *: 68 MPa 9 MPa
Monnin hardness *:	10,3	2,8	Static bending strength *: 143 MPa 15 MPa
Coeff. of volumetric shrinkage:	0,68 %	0,04 %	Modulus of elasticity *: 26540 MPa 2720 MPa
Total tangential shrinkage (TS):	9,5 %	1,2 %	
Total radial shrinkage (RS):	4,6 %	0,9 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)
TS/RS ratio:	2,1		
Fiber saturation point:	25 %		
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 1 - very durable

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

Termites (according to E.N. standards): class M - moderately durable Treatability (according to E.N. standards): class 3 - poorly permeable

Use class ensured by natural durability: class 4 - in ground or fresh water contact

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: does not require any preservative treatment.

#### **DRYING**

Drying rate: slow Possible drying schedule: 4

Risk of distortion: high risk

Temperature (°C) wet-bulb Risk of casehardening: no M.C. (%) dry-bulb Air humidity (%) Risk of checking: high risk Green 42 39 82 50 48 43 74 Risk of collapse: no 40 48 43 74 Note: Drying requires care (air drying under cover and 30 48 43 74 end-coating). Drying defects mainly with backsawn. 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: no information available

Slicing: nood

# **ASSEMBLING**

Nailing / screwing: good but pre-boring necessary

Gluing: correct

#### **COMMERCIAL GRADING**

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

Possible grading: FAS, Select, Common 1, Common 2, Common 3

#### **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 2000). It expects a trustural graded timber in vertical uses with moon destity upper 0.25 and thickness upper

2009). It concerns structural graded timber in vertical uses with mean density upper 0.35 and thickness upper

22 mm.

# **END-USES**

Heavy carpentry
Exterior joinery

Bridges (parts not in contact with water or ground)

Sleepers

Sliced veneer

Industrial or heavy flooring

Exterior panelling

Current furniture or furniture components
Bridges (parts in contact with water or ground)

# **MAIN LOCAL NAMES**

Country Local name Country Local name ANANI DA TERRA FIRME Brazil BACURI DE ANTA Brazil CORONOBO Guyana MOROMBO-RAI Guyana Guyana MORONOBO French Guiana MANIL MONTAGNE French Guiana MANIL PEOU French Guiana PARCOURI-MANIL Suriname MANNIBALLI Suriname MATAKKIE



