Family: MALVACEAE (angiosperm) Scientific name(s): Tarrietia densiflora Heritiera densiflora (synonymous) Tarrietia utilis Heritiera utilis (synonymous) Commercial restriction: no commercial restriction Note: Genera Tarrietia and Heritiera are synonymous.

#### WOOD DESCRIPTION

Color: red brown

Sapwood: clearly demarcated

Texture: medium Grain: interlocked

Interlocked grain: slight

Note: Wood pink brown to purplish red brown, becoming bronze with age. Large and visible silver figure. Oily to the touch.

LOG DESCRIPTION

Thickness of sapwood: from

#### PHYSICAL PROPERTIES

MECHANICAL AND ACOUSTIC PROPERTIES

3 to

Log durability: moderate (treatment recommended)

90 cm

4 cm

Diameter: from 70 to

Floats: no

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 *:	0,70	0,08	Crushing strength *: 55 MPa 7 MPa				
Monnin hardness *:	3,8	0,8	Static bending strength *: 103 MPa 14 MPa				
Coeff. of volumetric shrinkage:	0,45 %	0,09 %	Modulus of elasticity *: 14430 MPa 1667 MPa				
Total tangential shrinkage (TS):	8,8 %	1,3 %					
Total radial shrinkage (RS):	4,2 %	0,9 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm <sup>2</sup> )				
TS/RS ratio:	2,1						
Fiber saturation point:	32 %		Musical quality factor: 113,7 measured at 2756 Hz				
Stability:	moderately stable						
Note:	T. utilis has properties slightly lower than T. densiflora which presents sometimes an irregular grain.						

### 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 3 - moderately 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 4 - not permeable Use class ensured by natural durability: class 2 - inside or under cover (dampness possible) Species covering the use class 5: No Note: This species is listed in the European standard NF EN 350-2. The NIANGON cannot be used without appropriate preservative treatment for end-uses under use class 3, except for some parts of a work such as windows, less exposed than others (entrance doors,

### **REQUIREMENT OF A PRESERVATIVE TREATMENT**

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

shutters, ...).

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	Possible drying schedule: 2			
Risk of distortion:	high risk	Temperature (°C)			
Risk of casehardening:	no	M.C. (%)	dry-bulb	• •	Air humidity (%)
Risk of checking:	slight risk	Green	50	47	84
Risk of collapse:	no	40	50	45	75
Note:	High risk of distortion for thin sections with highly	30	55	47	67
	interlocked grain; initial surface drying prior to kiln	20	70	55	47
	drying is then recommended.	15	75	58	44

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: good

Slicing: nood

Note: Risk of clogging and overheating of blades and tools. Risk of tearing in machining. Peeling is not recommended: irregular logs.

#### ASSEMBLING

Nailing / screwing: good

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 II, choix IV Possible grading for short length lumbers: choix I, choix II Possible grading for short length rafters: choix I, choix II 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 II, 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**

Exterior joinery Interior joinery Current furniture or furniture components Veneer for back or face of plywood Flooring Shingles Ship building (planking and deck) Resistant to one or several acids Exterior panelling Interior panelling Sliced veneer Stairs (inside) Moulding Cabinetwork (high class furniture) Light carpentry

Note: The decorative veneer is sliced. Filling is recommended in order to obtain a good finish.

## MAIN LOCAL NAMES

<u>Country</u> Ivory Coast Ghana Liberia Local name NIANGON NIANGON WHISMORE <u>Country</u> Gabon Ghana Sierra Leone Local name OGOUE NYANKOM YAMI



