OLON Page 1 of 4

Family: RUTACEAE (angiosperm)

Scientific name(s): Fagara heitzii

Commercial restriction: no commercial restriction

Note: OLON is often confused with OLONVOGO (F. macrophylla, F. tessmannii), which is heavier and harder.

#### WOOD DESCRIPTION

#### LOG DESCRIPTION

Color: light yellow Diameter: from 55 to 80 cm Sapwood: not clearly demarcated Thickness of sapwood: from 1 to 2 cm

Texture: medium Floats: yes

Grain: straight or interlocked Log durability: moderate (treatment recommended)

Interlocked grain: slight

Note: Heartwood light yellow to greenish yellow. Lustrous aspect. Slight ribbon like aspect on quartersawn.

## **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 *:	0,52	0,05	Crushing strength *: 44 MPa 7 MPa
Monnin hardness *:	2,0	0,6	Static bending strength *: 72 MPa 13 MPa
Coeff. of volumetric shrinkage:	0,40 %	0,08 %	Modulus of elasticity *: 12410 MPa 980 MPa
Total tangential shrinkage (TS):	5,7 %	1,2 %	
Total radial shrinkage (RS):	3,8 %	0,9 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)
TS/RS ratio:	1,5		
Fiber saturation point:	30 %		Musical quality factor: 126,3 measured at 2543 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 3 - moderately durable

Dry wood borers: susceptible - sapwood not or slightly demarcated (risk in all the wood)

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

Treatability (according to E.N. standards): class 2-3 - poorly to moderately 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. 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

OLON Page 2/4

#### **DRYING**

Drying rate: normal

Risk of distortion: slight risk

Risk of casehardening: no

Risk of checking: slight risk Risk of collapse: no Possible drying schedule: 3

Temperature (°C)							
	M.C. (%)	dry-bulb	wet-bulb	Air humidity (%)			
	Green	60	56	81			
	30	68	58	61			
	20	74	60	51			
	15	80	61	41			

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

Note: Some difficulties in planing due to interlocked grain. Silica content may be quite high. Sawdust sometimes irritant.

## **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 IV

Possible grading for short length lumbers: 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**

Veneer for interior of plywood

Moulding
Interior joinery
Boxes and crates
Blockboard
Light carpentry

Glued laminated

Note: Bark has numerous medical applications.

Veneer for back or face of plywood

Interior panelling

Current furniture or furniture components

Formwork

Fiber or particle boards Wood frame house Sliced veneer OLON Page 3/4

# **MAIN LOCAL NAMES**

CountryLocal nameCountryLocal nameCameroonBONGOCongoM'BANZAGabonOLONEquatorial GuineaOLONGDemocratic Republic of the CongoKAMASUMU



