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Family: BURSERACEAE (angiosperm)

Scientific name(s): Dacryodes normandii Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: light brown Diameter: from 60 to 80 cm
Sapwood: not clearly demarcated Thickness of sapwood: from 2 to 4 cm

Texture: medium Floats: yes

Grain: straight or interlocked Log durability: no information available

Interlocked grain: slight

Note: Grain sometimes wavy.

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 *:	0,59	0,03	Crushing strength *: 48 MPa 6 MPa
Monnin hardness *:	2,9	0,4	Static bending strength *: 87 MPa 9 MPa
Coeff. of volumetric shrinkage:	0,51 %	0,06 %	Modulus of elasticity *: 15040 MPa 2728 MPa
Total tangential shrinkage (TS):	7,7 %	0,9 %	
Total radial shrinkage (RS):	4,6 %	0,6 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)
TS/RS ratio:	1,7		
Fiber saturation point:	28 %		Musical quality factor: 101,3 measured at 2740 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 D - durable

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

Use class ensured by natural durability: class 2 - inside or under cover (dampness possible)

Species covering the use class 5: No

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

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DRYING

Drying rate: normal to slow Risk of distortion: slight risk Risk of casehardening: no

> Risk of checking: slight risk Risk of collapse: no

> > Note: Must be dried carefully in order to reduce defects.

SAWING AND MACHINING

Blunting effect: high

Sawteeth recommended: stellite-tipped

Cutting tools: tungsten carbide

Peeling: good

Slicing: not recommended or without interest

Note: Some difficulties in presence of interlocked grain.

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

Formwork Interior panelling Blockboard Light carpentry Wood frame house Veneer for back or face of plywood

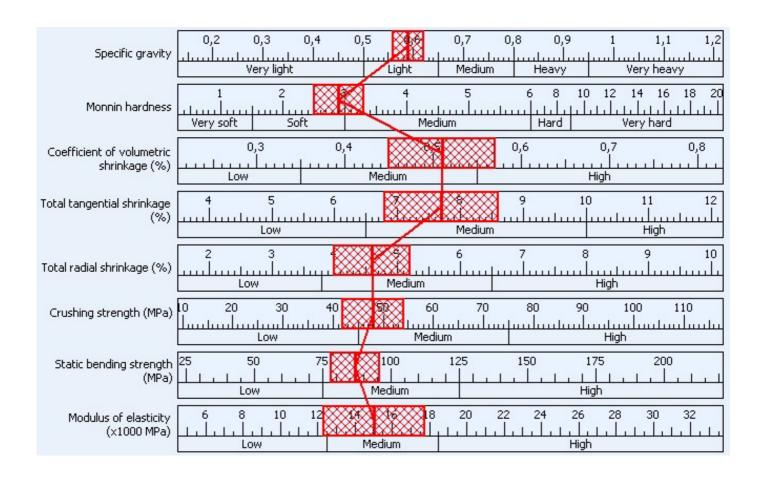
Interior joinery
Boxes and crates
Fiber or particle boards
Glued laminated

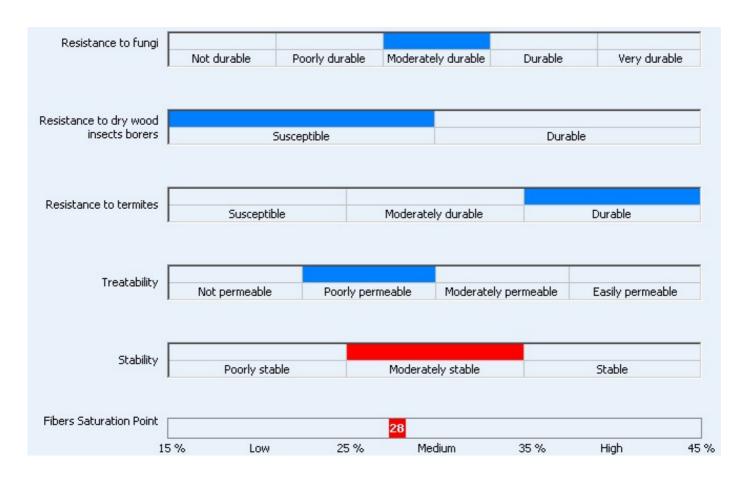
Seats

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MAIN LOCAL NAMES

CountryLocal nameCountryLocal nameCongoKOMAGabonOSSABEL





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