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Family: FABACEAE-CAESALPINIOIDEAE (angiosperm)

Scientific name(s): Dicorynia guianensis

Dicorynia paraensis (synonymous)

Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: brown Diameter: from 50 to 90 cm
Sapwood: clearly demarcated Thickness of sapwood: from 2 to 10 cm

Texture: medium Floats: no

Grain: straight Log durability: moderate (treatment recommended)

Interlocked grain: absent

Note: Colour turns bronze brown or purplish brown with air. Sometimes, presence of internal stresses.

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.		<u>Mean</u>	Std dev.
Specific gravity *:	0,79	0,05	Crushing strength *:	70 MPa	3 MPa
Monnin hardness *:	5,7	0,7	Static bending strength *:	121 MPa	46 MPa
Coeff. of volumetric shrinkage:	0,55 %	0,06 %	Modulus of elasticity *:	18350 MPa	2480 MPa
Total tangential shrinkage (TS):	8,2 %	0,6 %			
Total radial shrinkage (RS):	5,1 %	0,6 %	(*: at 12% moisture content, with 1 MPa = 1 N/mm²)		
TS/RS ratio:	1,6				
Fiber saturation point:	29 %		Musical quality factor:	126 measured	at 2925 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 M - moderately 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.

Resistance to fungi: moderate to good according to fungi. This species does not cover the use class 4, but it naturally covers the use class 5 (end-uses in marine environment or in brackish water) owing to its high silica content and its high specific gravity. Resistance to termites ranges from moderately good to good.

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

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DRYING

Drying rate: normal to slow

Possible drying schedule: 4

Risk of distortion: slight risk Temperature (°C) Risk of casehardening: no M.C. (%) wet-bulb Air humidity (%) dry-bulb Risk of checking: slight risk Green 42 39 82 50 48 43 74 Risk of collapse: no 48 74 40 43 Note: Slow drying recommended in order to reduce risks of 30 48 43 74 checking and distorsion. Risks of casehardening in

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.

thick dimension.

SAWING AND MACHINING

Blunting effect: high

Sawteeth recommended: stellite-tipped

Cutting tools: tungsten carbide

Peeling: good Slicing: nood

Note: Must be sawn green in order to reduce blunting effect. Sawing requires power and a cutting angle of 20° is recommended.

ASSEMBLING

Nailing / screwing: good but pre-boring necessary

Gluing: correct

Note: Gluing must be done with care (dry wood and smooth surface)

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 "ANGELIQUE". Grading is done according to local rules "Bois

15

54

46

63

guyanais classés".

Possible grading: Choix 1, choix 2, choix 3, choix 4

Visual grading for structural applications: Traded timber with CE marking. Possible strength class: D50 related to the European standard EN 14081 (May

2006)

FIRE SAFETY

Conventional French grading: Thickness > 14 mm : M.3 (moderately inflammable)

Thickness < 14 mm : M.4 (easily inflammable)

Euroclasses grading: C s1 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. Given according to procedures given by European standard NF EN 13501-1 (september 2007). European

grading report done by CSTB whith the following number: RA05-0238D.

END-USES

Exterior joinery Interior joinery

Interior panellingIndustrial or heavy flooringFlooringCabinetwork (high class furniture)Sliced veneerVeneer for back or face of plywood

CooperageSculptureCurrent furniture or furniture componentsStairs (inside)Heavy carpentryTurned goods

Ship building (planking and deck)

Vehicle or container flooring

Resistant to one or several acids Bridges (parts not in contact with water or ground)

Hydraulic works (seawater)

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MAIN LOCAL NAMES

Country
Brazil (Amazon)
French Guiana
Suriname

Local name

ANGELICA DO PARA
ANGELIQUE
BASRALOKUS

<u>Country</u> Brazil (Amazon) Suriname <u>Local name</u> TAPAIUNA BARAKAROEBALLI BASRALOCUS Page 4/4



