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Family: MORACEAE (angiosperm)

Scientific name(s): Artocarpus spp.\* (voir note)
Commercial restriction: no commercial restriction

Note: \* Artocarpus spp.: origins Asia-Oceania.

KELEDANG is the commercial name for heavy Artocarpus; TERAP is used for light Artocarpus.

### WOOD DESCRIPTION

## LOG DESCRIPTION

Color: brown Diameter: from 60 to 100 cm
Sapwood: clearly demarcated Thickness of sapwood: from 5 to 7 cm

Texture: coarse Floats: no

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

Interlocked grain: marked

Note: Wood orangey yellow brown darkening to golden brown. Lustrous and ribbon like aspect. Frequent white deposits in the

pores

### 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.

MeanStd dev.MeanStd dev.Specific gravity \*:0,80Crushing strength \*:55 MPa

Monnin hardness \*: Static bending strength \*: 90 MPa

Coeff. of volumetric shrinkage: 0,45 % Modulus of elasticity \*: 14000 MPa

Total tangential shrinkage (TS): 5,5 %

Total radial shrinkage (RS): 3,0 % (\*: at 12% moisture content, with 1 MPa = 1 N/mm<sup>2</sup>)

TS/RS ratio: 1,8
Fiber saturation point: 30 %

Stability: moderately stable to stable

Note: Medium hardness.

#### 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 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: does not require any 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: high risk

Risk of casehardening: no

Risk of checking: slight risk Risk of collapse: no Possible drying schedule: 4

Temperature (°C)				
	M.C. (%)	dry-bulb	wet-bulb	Air humidity (%)
	Green	42	39	82
	50	48	43	74
	40	48	43	74
	30	48	43	74
	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: fairly high
Sawteeth recommended: stellite-tipped
Cutting tools: tungsten carbide

Peeling: good

Slicing: not recommended or without interest

Note: Difficulties during sawing due to hard deposits in the pores, interlocked grain and tension wood. Fibrous surface. Filling

recommended.

## **ASSEMBLING**

Nailing / screwing: poor Gluing: correct

# **COMMERCIAL GRADING**

Appearance grading for sawn timbers: According to MGR grading rules (2009)

Possible grading: Prime, Select, Standard, Serviceable, Utility

## **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**

Interior joinery

Flooring

Turned goods

Matches

Vehicle or container flooring

Veneer for back or face of plywood

Note: High class coffins (Malaysia).

Interior panelling

Current furniture or furniture components

Stairs (inside) Light carpentry

Veneer for interior of plywood

Boxes and crates

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# **MAIN LOCAL NAMES**

Country Local name Country Local name India India TERAP AINI KELEDANG BABI Indonesia **BSANG** Indonesia Indonesia SELANGKING Indonesia TAMGANG Indonesia TERAP Peninsular Malaysia SELANGKING Malaysia (islands) KELEDANG Malaysia (islands) LAKUCH Myanmar MYAUKLOK Papua New Guinea KAPIAG Philippines ANUBING Philippines KALULOT Philippines Thailand HAD MALAKUBI Vietnam MIT-NAI United Kingdom **JACKWOOD** 



