HALDU Page 1 of 4

Family: RUBIACEAE (angiosperm)

Scientific name(s): Haldina cordifolia

Adina cordifolia (synonymous)

Commercial restriction: no commercial restriction

### WOOD DESCRIPTION

## LOG DESCRIPTION

Color: yellow Diameter: from 50 to 100 cm

Sapwood: not clearly demarcated Thickness of sapwood:

Texture: fine Floats: yes

Grain: straight Log durability: moderate (treatment recommended)

Interlocked grain: absent

Note: Very wide sapwood.

Yellow wood darkening to yellow brown with age. Lustrous surface.

#### 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 *:	0,70		Crushing strength *:	55 MPa	
Monnin hardness *:	4,5		Static bending strength *:	90 MPa	
Coeff. of volumetric shrinkage:	0,45 %		Modulus of elasticity *:	12770 MPa	
Total tangential shrinkage (TS):	6,8 %				
Total radial shrinkage (RS):	3,4 %		(*: at 12% moisture content, with 1 MPa = 1 N/mm²)		
TS/RS ratio:	2,0				
Fiber saturation point:					
Stability, m	adarataly stable				

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): no information available 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

# REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: requires appropriate preservative treatment

In case of risk of temporary humidification: use not recommended In case of risk of permanent humidification: use not recommended **HALDU** Page 2/4

#### **DRYING**

Drying rate: normal Possible drying schedule: 4

Risk of distortion: slight risk

Temperature (°C) Risk of casehardening: no M.C. (%) dry-bulb wet-bulb Air humidity (%) Risk of checking: high risk Green 42 39 82 50 48 43 74 Risk of collapse: no 48 74 40 43 Note: Some tendency to split during air drying 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: normal

Sawteeth recommended: ordinary or alloy steel

Cutting tools: ordinary Peeling: good Slicing: nood

Note: Sometimes, irritant sawdust.

## **ASSEMBLING**

Nailing / screwing: good 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**

Stairs (inside) Interior joinery Interior panelling Flooring

Sliced veneer Veneer for interior of plywood

Veneer for back or face of plywood Cooperage

Turned goods Current furniture or furniture components Pencils Boxes and crates Cigar boxes Light carpentry

Glued laminated Resistant to one or several acids HALDU Page 3/4

# **MAIN LOCAL NAMES**

Local name Country Local name Country Cambodia KWAO India HALDU Indonesia LASI Malaysia (islands) MERAGA Philippines ADINA Myanmar HNAW Thailand Sri Lanka KOLON KWAO Vietnam GAO-VANG



