

Common name:	LAUAN RED
Family:	DIPTEROCARPACEAE
Scientific name(s):	Shorea negrosensis* (note) Shorea polysperma* (note)
Note:	* species belonging to the sub-genus Rubroshorea. RED LAUAN species come from the Philippines.

LOG DESCRIPTION	WOOD DESCRIPTION
Diameter:	from 80 to 120 cm
Thickness of sapwood:	from 5 to 6 cm
Floats:	no
Durability in forest :	Moderate (treatment recommended)
Note:	Frequent hollow tree (trees with a large diameter). Wood red brown more or less dark. Slightly lustrous. Ribbon like aspect. Visible silver figure. Presence of white lines (resin canals).

PHYSICAL PROPERTIES	MECHANICAL PROPERTIES			
Physical and mechanical properties are based on mature heartwood specimens. These properties can vary greatly depending on origin and growth conditions.				
	mean	standard deviation	mean	standard deviation
Density *:	0.65 g/cm ³	0.05		
Monnin hardness*:	2.7	0.5	Crushing strength *:	50 MPa
Coef of volumetric shrinkage:	0.51 %	0.04	Static bending strength *:	90 MPa
Total tangential shrinkage:	7.6 %	0.9	Modulus of elasticity *:	13290 MPa
Total radial shrinkage:	4.3 %	0.7		962
Fibre saturation point:	29 %			
Stability:	Moderately stable		(* : at 12 % moisture content ; 1 MPa = 1 N/mm ²)	
Note:	Hardness varies from soft to fairly hard.			

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.

Fungi:	Class 3 moderately durable	* ensured by natural durability (according EN standards).
Dry wood borers:	Durable; sapwood demarcated (risk limited to sapwood)	
Termites:	Class M - Moderately durable	
Treatability:	3 - poorly permeable	
Use class*:	2 - inside or under cover (dampness possible)	
Note:	Black holes quite frequent.	

MAIN LOCAL NAMES	
Countries	Local names
Philippines	RED LAUAN
Philippines	TANGILE
Philippines	TIAON

LAUAN RED

REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks:	Does not require any preservative treatment
In case of temporary humidification risk:	Requires appropriate preservative treatment
In case of permanent humidification risk:	Use not recommended

DRYING

Possible drying schedule

Drying rate:	Normal to slow	Temperature (°C)			Air humidity (%)
		M.C. (%)	dry-bulb	wet-bulb	
Risk of distortion:	Slight risk	Green	50	47	84
Risk of casehardening:	Yes	40	50	45	75
Risk of checking:	Slight risk	30	55	47	67
Risk of collapse:	No	20	70	55	47
		15	75	58	44

This schedule is given for information only and is applicable to thickness < 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.

Note: Drying must be done with care to avoid risks of casehardening.

SAWING AND MACHINING

Blunting effect:	Normal
Sawteeth recommended:	Ordinary or alloy steel
Cutting tools:	Ordinary
Peeling:	Good
Slicing:	Good
Note:	Tendency to tear in planing. Keep sharp tools.

ASSEMBLING

Nailing / Screwing:	Good but pre-boring necessary
Gluing:	Correct
Note:	Tends to split when nailing.

END-USES

Main known end-uses; they must to be implemented according to the code of practice.

Important remark: some end-uses are mentionned for information (traditional, regional or ancient end-uses).

Veneer for interior of plywood

Veneer for back or face of plywood

Sliced veneer

Current furniture or furniture components

Formwork

Interior joinery

Interior panelling

Exterior joinery

Exterior panelling

Stairs (inside)

Moulding

Cabinetwork (high class furniture)

Ship building (planking and deck)

Musical instruments

Boxes and crates

Light carpentry

Glued laminated

Flooring

Rolling shutters
