

Common name:	MERANTI YELLOW
Family:	DIPTEROCARPACEAE
Scientific name(s):	Shorea faguetiana* (note) Shorea multiflora* (note) Shorea spp.* (note)
Note:	* Shorea sub-genus Richetia. YELLOW MERANTI is used for woods from peninsular Malaysia; YELLOW SERRAYA is used for woods from Sabah-Sarawak.

LOG DESCRIPTION		WOOD DESCRIPTION	
Diameter:	from 60 to 110 cm	Colour:	Light yellow
Thickness of sapwood:	from 6 to 8 cm	Sapwood:	Not clearly demarcated
Floats:	yes	Texture:	Medium
Durability in forest :	Moderate (treatment recommended)	Grain:	Straight or interlocked
		Interlocked grain:	Slight
Note:	Brittleheart (large trees). Wood light yellow or yellow brown with sometimes greenish glints. Darkens with air. Grain sometimes wavy.		

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	
Density *:	0.54 g/cm ³		mean
Monnin hardness*:	2.4	Crushing strength *:	48 MPa
Coef of volumetric shrinkage:	0.46 %	Static bending strength *:	98 MPa
Total tangential shrinkage:	7.3 %	Modulus of elasticity *:	14100 MPa
Total radial shrinkage:	3.1 %		
Fibre saturation point:	25 %		
Stability:	stable	(* : at 12 % moisture content ; 1 MPa = 1 N/mm ²)	
Note:			

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 4 - poorly durable
Dry wood borers:	Susceptible; sapwood not or slightly demarcated (risk in all the wood)
Termites:	Class S - Susceptible
Treatability:	3-4 - poorly or not permeable
Use class*:	1 - inside (no dampness)
Note:	This species is listed in the European standard NF EN 350-2. Resistance to fungi low to moderate. Treatability low to moderate. Presence of black holes.

* ensured by natural durability (according EN standards).

MAIN LOCAL NAMES	
Countries	Local names
Indonesia	MERANTI KUNING
Malaysia (islands)	LUN GAJAH
Malaysia (islands)	LUN KUNING
Malaysia (islands)	LUN MERAT
Malaysia (islands)	LUN SIPUT
Malaysia (islands)	SELANGAN KACHA
Malaysia (islands)	SELANGAN KUNING
Malaysia (islands)	SERAYA KUNING
Malaysia (islands)	YELLOW MERANTI
Malaysia (islands)	YELLOW SERAYA
Peninsular Malaysia	MERANTI DAMAR HITAM
Peninsular Malaysia	MERANTI KELIM
Peninsular Malaysia	MERANTI TELEPOK
Peninsular Malaysia	YELLOW MERANTI
Thailand	KALO

MERANTI YELLOW

REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks:	Requires appropriate 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	60	56	81
Risk of casehardening:	No	30	68	58	61
Risk of checking:	Slight risk	20	74	60	51
Risk of collapse:	No	15	80	61	41

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: Must be stacked carefully to avoid risks of distortion.

SAWING AND MACHINING

Blunting effect:	Normal
Sawteeth recommended:	Ordinary or alloy steel
Cutting tools:	Ordinary
Peeling:	Good
Slicing:	Good
Note:	Some difficulties due to interlocked grain. Planed surfaces are not lustrous.

ASSEMBLING

Nailing / Screwing:	Good
Gluing:	Correct

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).

Note: Filling is recommended to obtain a good finish.

Veneer for interior of plywood
Veneer for back or face of plywood
Interior joinery
Interior panelling
Boxes and crates
Formwork
Current furniture or furniture components
Flooring
Glued laminated
Light carpentry
Sliced veneer
