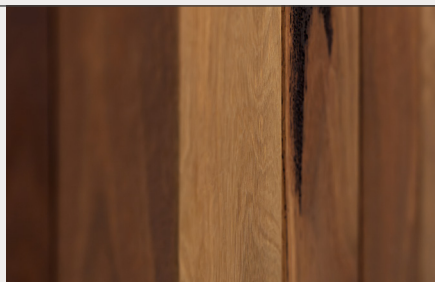


Spotted Gum – *Corymbia maculata*

Other Names: *Corymbia citriodora*, *Eucalyptus henryi* (NSW)

Region of Origin: NSW & QLD, Australia



General Description

Spotted Gum is a premium Australian hardwood valued for its strength, durability, and striking appearance. The heartwood ranges from pale to dark brown or chocolate tones, while the sapwood is noticeably lighter. The timber has a moderately coarse texture and variable grain, often featuring wavy grain that creates an attractive fiddleback figure. A slightly greasy feel and the presence of gum veins are common. Typically, resource grown in QLD has darker colour tones and is slightly denser, stronger and more durable when compared to NSW grown timber.

Main Uses

Cladding, Lining, Decking, Screening, Structural, Furniture, Joinery, Flooring

Mechanical Properties

A high strength hardwood suitable for demanding structural and appearance applications.

Working properties

Machines well for a dense hardwood due to its natural oils.

Accepts oil and stain with excellent results.

Lower tannin content reduces bleed through and staining.

Suitable for turning, carving and general machine work.

Pre-oiled versions provide better moisture control during installation (products such as Cladding, Lining, Decking & Screening).

Availability

Widely available as kiln dried structural and appearance grade products as well as unseasoned structural members.

Commonly supplied pre-oiled in products such as Cladding, Lining, Decking & Screening.

Grading

Unseasoned: F11 | F14 | F17

Seasoned: Premium | Natural | Select | Standard and Better | Feature | F27

Density (kg/m³):

Unseasoned: 1180kg/m³ | Seasoned: 990kg/m³

Durability:

Above Ground: Very Durable | In Ground: Very Durable

Bushfire Resistance:

BAL 12.5, 19 and 29 – All AS3959 required applications

EFH Ignitibility:

13

EFH Spread-of-Flame Index:

3

EFH Smoke-Developed Index:

3

Critical Radiance Flux - Lower: >2.2 and <4.5

Critical Radiance Flux - Higher: ≥4.5

Smoke Development Rate: <750

Fire Properties Group Number: 3

Strength Group:

Unseasoned: S2 | Seasoned: SD2

MOR (MPa):

Unseasoned: 98-99 | Seasoned: 142-150

MOE (GPa):

Unseasoned: 16-18 | Seasoned: 19-23

JANKA (kN):

10.1 – 11

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Strength Groupings

Minimum values for strength groups (<u>unseasoned</u> timber)			
(units are Mpa = 145 lb/sq.inch)			
Strength group	Modulus of rupture	Modulus of elasticity	Maximum crushing strength
S1	103	16300	52
S2	76	14200	43
S3	73	12400	36
S4	62	10700	31
S5	52	9100	26
S6	43	7900	22
S7	36	6900	18

Minimum values for strength groups (<u>seasoned</u> timber)			
(units are Mpa = 145 lb/sq.inch)			
Strength group	Modulus of rupture	Modulus of elasticity	Maximum crushing strength
SD1	150	21500	80
SD2	130	18500	70
SD3	110	16000	61
SD4	94	14000	54
SD5	78	12500	47
SD6	65	10500	41
SD7	55	9100	36
SD8	45	7900	30

Shrinkage Classifications

Description of shrinkage	Shrinkage from Green to Oven-dry (12% MC)	
	(%) before reconditioning	
	Tangential	Radial
Very Low	0 - 3.5	0 - 2
Low	3.5 - 5.0	2 - 3
Medium	5.0 - 6.5	3 - 4
High	6.5 - 8.0	4 - 5
Very High	> 8.0	> 5

Durability Classifications

Grade of durability	Approximate service life (years)		
	Fully Protected	Above ground, exposed	In-ground, exposed
Very Durable	> 50	> 40	> 25
Durable	> 50	15 - 40	15 - 25
Moderately Durable	> 50	7 - 15	5 - 15
Non-Durable	> 50	0 - 7	0 - 5

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