



## Jarrah – *Eucalyptus marginata*

**Other Names:** Jarrah

**Country of Origin:** South Western Australia

### SPECIES OVERVIEW:

Jarrah heartwood is a rich dark brownish-red, sometimes marked with short, dark brown radial flecks. Gum veins or pockets may also be present. The grain is usually straight but often interlocked or wavy. The texture is even but moderately coarse. A very durable timber known for its fire resistant properties and high resistance to termite and marine borer attack.

### MAIN USES:

T&G strip flooring, interior and exterior furniture and joinery, boatbuilding and heavy construction.

### WORKING PROPERTIES:

The timber is rather difficult to work with hand tools and fairly hard to machine with moderate blunting effect.

Pre-boring necessary for nailing and screwing. Gluing properties are good and the wood polishes very well.

### MECHANICAL PROPERTIES:

This very heavy timber has a moderate steam bending classification, with medium bending strength and high crushing strength.

### AVAILABILITY:

Specifications stocked at Rosenfeld Kidson are: Sawn 25mm, 40mm, 50mm, 75mm thicknesses in varying fixed widths. T&G strip flooring and overlay profiles.

### GRADING:

Prime, Structural.

DENSITY (kg/m<sup>3</sup>)\*: 820

DURABILITY: Durable

STRENGTH GROUP: SD4

MOR (MPa):	Unseasoned	Seasoned
	67	107

MOE(GPa):	Unseasoned	Seasoned
	10.5	12.7

JANKA(kN): 8.0

SHRINKAGE GREEN TO 12% M.C.	Tangential	Radial
	9.0	6.0

\*Air Dry Density (kg/m<sup>3</sup>) is average indication only and actual value may vary. Refer to timber properties tables over page for strength, shrinkage and durability classifications.



**STRENGTH GROUPINGS:**

Minimum values for strength groups (unseasoned timber)			
<i>(units are Mpa = 145 lb/sq.inch)</i>			
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 (seasoned timber)			
<i>(units are Mpa = 145 lb/sq.inch)</i>			
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