



**Australian Oak – *Eucalyptus regnans*
& *delegatensis***

OTHER NAMES: Mountain Ash, Alpine Ash, Victorian Ash, Tasmanian Oak

REGION OF ORIGIN: Australia



GENERAL DESCRIPTION

Australian Oak is a mixture of two Eucalypt species. It ranges in colour from pale pink to brown straw. It is straight, open and even grained with a uniform texture. Usually all quartersawn for stability. Has excellent staining properties. Australian Oak carries independent PEFC certification.

MAIN USES

Flooring, interior joinery and mouldings, panelling.

WORKING PROPERTIES

Australian Oak is relatively easy to work and takes a good finish. It is also a good bending timber. Pre-boring advisable when nailing or screwing. Australian Oak takes glue well.

MECHANICAL PROPERTIES

Medium bending strength and stiffness properties, high crushing strength but poor steam bending classification.

AVAILABILITY

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

GRADING

Select, Standard.

DENSITY (kg/m3)*:

660

DURABILITY:

Moderately durable

STRENGTH GROUP:

S4, SD6

MOR (MPa):

Unseasoned
68

Seasoned
109

MOE(GPa):

Unseasoned
12.5

Seasoned
14.8

JANKA(kN):

4.9

5.7

SHRINKAGE GREEN TO 12% M.C.

Tangential

Radial

9.0

5.0

*Air Dry Density (kg/m3) is average indication only and actual value may vary. Refer to timber properties tables over page for strength, shrinkage and durability classifications.

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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

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