



## Tawa – *Beilschmiedia tawa*

**Other Names:** New Zealand Chestnut, New Zealand Oak

**Region of Origin:** New Zealand

### SPECIES OVERVIEW:

Tawa has a white to pale brown coloured heartwood with a straight grain and fine texture. Logs sometimes contain portions of black heartwood but at Rosenfeld Kidson, only 'Clean White Tawa' is stocked. The timber is often treated with preservative to prevent staining and insect attack.

### MAIN USES:

Typically used in flooring, panelling, furniture and cabinetmaking, interior joinery, turnery and dowel manufacture.

### WORKING PROPERTIES:

Tawa machines and finishes extremely well and has excellent turning properties.

### MECHANICAL PROPERTIES:

Tawa is a hard wood of medium density. It is hard and moderately strong.

### AVAILABILITY:

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

### GRADING:

Clean White.

DENSITY (kg/m3)*:	730
DURABILITY:	Non-durable

STRENGTH GROUP:	SD4
MOR (MPa):	94
MOE(GPa):	12.3
JANKA(kN):	5.2

SHRINKAGE GREEN TO 12% M.C.	Tangential	Radial
	7.0	4.0

\*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.



**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