

TrueSpan LVL — E10

Structural laminated veneer lumber for framing. A direct replacement for MGP10 pine, manufactured by Tilling Timber and in-grade tested to AS/NZS 4357 & 4063.

Product & compliance

Product	TrueSpan LVL	Grade	E10
Structural application	Framing	Grading method	In-grade
Standards	AS/NZS 4357 & 4063	Strength group	SD6
Joint group (JD)	JD4	Average density	580 kg/m ³
Moisture content	12-15%	Treatment	H2S std; H2 optional
Required undersize	None	Manufactured by	Tilling Timber

Strength properties (MPa, dry)

Bending — edge & flat	f ' b	36
Tension parallel	f ' t	25
Compression parallel	f ' c	28
Compression perp.	f ' p	10
Shear — edge & flat	f ' s	4.5
Shear at joint	f ' sj	2.2
Elastic modulus (avg)	E	10,000
Modulus of rigidity (avg)	G	500

Available sizes (mm)

35 mm width 70 90 120 140 170 190 240 290

45 mm width 70 90 120 140 190 240 290 300

Bending & tension by depth (MPa)

Depth	70	90	120	140	170	190	240	290	300
f ' b	36	36	34.3	33.4	32.4	31.8	30.6	29.6	29.4
f ' t	25	25	25	25	24.5	24.0	23.1	22.4	22.3

Capacity reduction factors (Ø)

0.95

Secondary / domestic members; failure affecting < 25 m²

0.90

Primary members in non-domestic situations

0.80

Primary members with post-disaster function

Joint group for hanger design (nails & bolts): JD4 face, edge and end (stud screws).

Design notes

- Characteristic values apply to dry service conditions.
- For beams deeper than 90 mm, multiply by $(90/d)^{0.167}$, where d is member depth.
- For LVL on the flat thicker than 45 mm, multiply by $(45/t)^{0.333}$, where t is member thickness.
- For tension members with the larger cross-section > 150 mm, multiply by $(150/d)^{0.167}$.

Certified for use with AS1720.1-2010. National Product Engineer: Craig Kay RPEng (Civil) — PEDDD1869, RPEDS100, BDC0730, CC5635C, NER.

Talk to us about your next job

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