



LVL e10



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LVL is a range of engineered wood products that deliver increased stiffness with load bearing capacity.

Delivering consistent, predictable performance LVL e10 is the ideal alternative to MGP10 sawn timber used in construction.

E10 LVL is a dimensionally stable timber that's used as a general purpose construction material. Ideal for applications such as structural members for lintels, beams and wall frames. The predictable performance of LVL contributes to improved build speed on site and is suitable for use in residential and light commercial construction.

Performance Attributes

Evolution FP's e10 LVL is an E0 engineered timber, manufactured to AS/NZS 4357 for structural integrity and featuring an A-bond glue-line for exposure to heat, cold and wet conditions. These products carry the Benchmark and JASANZ certifications for quality and safety. Available in lengths ranging from 2.4 metres to 6.0 metres or longer lengths up to 12.0 metres are available on request. Our e10 LVL is sustainably sourced with FSC®-certified LVL available on request.

The Evolution FP range of LVL is H2 (G) treated, which includes glue-line treatment for protection against termite attack.

Product Information

LVL Beam Lengths: 2.4 - 6.0 metres.

LVL Beam Sizes (mm)*									
Thickness	Width								
35mm	70	90	120	140	170	190	240	290	-
45mm	70	90	120	140	-	190	240	290	300

* Contact us for availability of product sizes



Treatment Level H2 (G)



Bond Strength A bond



Standards: AS/NZS 4357



Specification Data

PRODUCT DATA

Manufactured in Accordance with	AS/NZS4357
Product certified by	JASANZ, Benchmark
Timber veneer species	Mason Pine, Eucalyptus
Natural durability	Class 4 to AS1684:2021 minimum
Adhesive	Phenolic to AS/NZS2754.1
Bond	Type 'A' to AS/NZS2098.2
Finish	Unsanded faces, sawn edges & edges arrised Water resistant paint finish applied to all sides
Moisture Content	8-15% (when despatched)
Formaldehyde emissions	E0
Treatment	H2 to AS/NZS1604.1:2021

PRODUCT TOLERANCES

Length	-0, +20mm	
Width	-0.5, +2.0mm	
Thickness	35mm 45mm	-2.0, +2.0mm -1.5, +3.5mm
Straightness	Spring & bow Squareness Twisting	1mm in 1000mm 1mm in 100mm $\frac{\text{Length (mm)} \times \text{Width (mm)}}{3500 \text{ Thickness (mm)}}$

DESIGN PROPERTIES

	35 & 45mm Thickness		
	Characteristic Values MPa		
	e10 LVL	MGP10	MGP12
Minimum Modulus of Elasticity parallel to the grain (E)	10000	10000	12700
Bearing perpendicular to the grain (f'_p)	10	10	10
Tension perpendicular to the grain (f'_{tp})	0.5	0.5	0.5
Average density (kg/m^3)	580	500	500
Joint group for connectors (nails, screws, bolts)	JD4 ^{^^}	JD5 ^{**}	JD4

Notes:

- Width & thickness of beams will increase at higher Moisture Content levels. As Moisture Content falls beams will return toward acceptable levels, but may not fall within the above tolerances if exposed to high Moisture Content.
- Cupping can result from a moisture gradient across the beam thickness as a result of weather exposure, not manufacturing.
- Suitable storage & handling is required to support long term performance. Refer Evolution FPs' storage & handling document.
*Refer Evolution FPs' Fixing, Storage & Handling Guide

DESIGN PROPERTIES

	35 & 45mm Thickness	Characteristic Values MPa		
		e10 LVL	MGP10	MGP12
	Width (mm)			
Bending [^]	70-90	36.0	17.0	28.0
	120	34.3	-	-
	140	33.5	16.0	25.0
	190	31.8	15.0	24.0
	290	29.6	14.0	22.0
Tension parallel to grain (f' _{tp})	70-90	25.0	7.7	12.0
	120	25.0	-	-
	140	25.0	7.1	12.0
	190	24.0	6.6	11.0
	290	22.4	6.1	9.9
Compression parallel to the grain (f' _c)	70-90	28	18.0	24.0
	120	-	-	-
	140	18.0	18.0	23.0
	190	17.0	17.0	22.0
	290	16.0	16.0	22.0
Shear in beam (f' _v)	70-90	4.2	2.6	3.5
	120	-	-	-
	140	-	2.5	3.3
	190	-	2.4	3.2
	290	-	2.3	3.1

Notes:

[^] For beams with depth greater than 90mm, f'_b has been multiplied by $(90/d)^{0.167}$ where d = depth of the member

* For tension members with the larger cross sectional dimension exceeding 150mm, f'_t has been multiplied by $(150/d)^{0.167}$ where d = the larger cross sectional dimension of the tension member

^{^^} Refer Evolution FP's Fixing, Storage & Handling Guide

^{**} If heart excluded, Joint Group is JD4



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Disclaimer: Evolution Forest Products has used all reasonable efforts to ensure the accuracy and reliability of the information contained in this document. Applications & Installation information must be read in conjunction with Evolution Forest Products' Span Tables and Fixing, Storage and Handling documents. This information is intended as a guide only and does not replace professional advice. We recommend that professional advice be obtained specific to your design requirements and circumstances. Evolution Forest Products will not be liable for any inaccuracies, omissions or errors in this information nor for any actions taken in reliance on this information. All content remains the property of, and is copyright to, Evolution Forest Products.