



LVL e14



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LVL e14 is a superior range of engineered wood products that deliver increased stiffness with load bearing capacity. Delivering consistent, predictable performance LVL e14 is the ideal alternative to F17 hardwood beams used in construction. Suitable for structural beams such rafters or roofing purlins, lintels, ridge or intermediate beams and floor joists in residential and commercial projects, along with verandah and pergola beams.

Performance Attributes

Available as an E0 engineered LVL Beam, Evolution's LVL e14 is sustainably sourced from plantation timbers with PEFC and FSC certified beams available on request. Our products carry the Benchmark and JASANZ certifications for quality and safety. Manufactured to AS/NZS 4357 for structural integrity and featuring an A-bond glue-line for exposure to heat, cold and wet conditions.

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
Beams available in up to 12 metre lengths

LVL Beam Sizes (mm)								
Thickness	Width							
35mm	90	120	140	-	-	-	-	-
45mm	90	120	140	190	240	300	360	400
63mm	-	-	-	-	-	300	360	400



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	Mix of softwoods & hardwoods
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	-10, +30mm	
Width (<400)	-0, +2mm	
Width (≥400)	-0, +5mm	
Thickness	35mm	-2.0, +2.0mm
	45mm	-4.5, +4.0mm
	63mm	-3.5, +5.0mm
Straightness	Spring & bow	1mm in 1000mm
	Squareness	1mm in 100mm
	Twisting	$\frac{\text{Length (mm)} \times \text{Width (mm)}}{3500 \text{ Thickness (mm)}}$

DESIGN PROPERTIES

Minimum Modulus of Elasticity MPa	35mm	>1400
	45mm	>1400
	63mm	>1400
Average Density (kg/m³)	550-750	
Joint group for connectors (bolts)	JD3*	
Joint group for connectors (nails, screws)	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 for LVL



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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.