



e-beam⁺ [F17]

e-beam⁺ [F17] LVL is an engineered sustainable substitute for F17 KD hardwood.

The performance of e-beam⁺ [F17] not only equals F17 hardwood – in many instances it outperforms it.

e-beam⁺ [F17] is an engineered solution for traditional timber framing applications;

- Floor joists and bearers
- Wall plates, studs, noggins and lintels
- Roof beams and rafters

Features

- Straight as an arrow
- Joint Group JD3 – once it gets hold of the fixing nail it doesn't want to let go
- e2S termite treated – providing a robust barrier to termite attack in above ground applications
- Made by the only Australian LVL manufacturer

Exposed Applications

e-beam⁺ [F17] can be treated to H3 for use in exterior above ground applications;

- Decking joists and bearers
- Pergolas
- Exposed rafters

Like any exposed timber product, H3 treated e-beam⁺ [F17] appreciates a bit of protection. Refer to our technical information sheet “e-beam and e-beam⁺ [F17] used Internally and Externally in Residential Housing” for instruction in the use of beam capping, end flashing or acrylic paint as appropriate.

Available Sizes

Choose section sizes for the spans and spacing that you're familiar with. If they work for F17 hardwood, they'll work for e-beam⁺ [F17].



E-BEAM+ [F17] LVL TECHNICAL DETAILS

e-beam+ [F17] Treatment

e-beam+ [F17] can be easily treated to e2S, H2 and H3 Hazard Class.

e-beam+ [F17] Size and Length Availability

Depth (mm)	Thickness (mm)		Length Availability
	35mm	45mm	
90			3.6m, 4.2m, 4.8m, 5.4m, 6.0m, 6.6m and 7.2m Other lengths are available by special manufacture up to 12.6m
120			
140			
170			
190			
240			
290			

Note: Shaded areas indicates available.

e-beam+ [F17] Characteristic Design Values

Stress Grade	Characteristic strength, MPa				Characteristic Stiffness MoE	Joint Group
	Bending (f'_b)	Shear (f'_s)	Tension (f'_t)	Compression (f'_c)		
F17 KDHW	42	3.6	25	34	14,000	JD3
e-beam+	59	5.3	34	47	14,000	JD3

Note: e-beam+ [F17] is the only sustainably sourced softwood engineered timber product available in the Australian market with a JD3 Joint Group for nails, bolts and screws.

e-beam+ [F17] Multiple Sections

The use of multiple e-beam+ [F17] sections is permitted using vertically nail laminated members. Multiple e-beam+ [F17] members are to be nail laminated in accordance with the Wesbeam Technical Information Sheet – Multiple Section LVL Members.

e-beam+ [F17] Span Tables

In order to determine an e-beam+ [F17] member size simply use the F17 seasoned hardwood timber sizes listed in AS 1684.2 Supplement – 2010 for the design framing application.

SPECIFICATIONS

Manufacture

Manufactured in accordance with AS/NZS 4357

Veneer

Thickness Constant through the product thickness
Species Sustainably sourced timber
Joints Outer 2 plies are scarf jointed
Inner plies – scarf and/or butt jointed

Moisture Content

8% – 15% (at time of dispatch)

Dimensional Tolerances

Available on request

Straightness

Available on request

Density

650 kg/m³ (approximately)

Adhesive

Phenolic – AS2754.1:2016 - Adhesives for timber and timber products; Adhesives for manufacture of plywood and laminated veneer lumber (LVL)

Bond

Type A – AS/NZS2098.2:2012 - Methods of tests for veneer and plywood; Bond quality of plywood (chisel test)

Joint Group

JD3 – for nails, bolts and screws

Finish

Unsanded faces, sawn edges and chamfered edges

Branding

Each piece of e-beam+ [F17] is branded at least once with the product name for identification and evidence of compliance with manufacturing control standards

Storage

Store on level bearers at maximum 1800mm centres well clear of the ground, and cover to keep dry but allow ventilation

Source

Sustainably sourced timber certified to AS4707:2014 - Chain of custody for forest products

Treatment Condition

e2S (CodeMark certified for Termite & Borers resistance for use in the geographical locations in the South of the Tropic of Capricorn). Can be specified as untreated, H2 and H3 as per AS/NZS1604.4:2012 - Specifications for preservative treatment; Laminated veneer lumber (LVL) to be used in any geographical location in Australia.



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WESB0442 August 2020

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