



## e-beam+ [F17]

e-beam+ [F17] LVL is a direct substitute for F17 hardwood at competitive prices and is engineered to maximise the efficient use of material and time. e-beam+ [F17] will meet and/or exceed the F17 KD Hardwood Structural Design Properties prescribed in AS 1720.1 – 2010 in all residential and commercial applications.

- The only F17 Hardwood substitute that has a JD3 Joint Grouping
- Engineered for straightness, consistency and guaranteed performance
- Available in lengths from 3.6m to 7.2m with other lengths available by special manufacture up to 12.6m
- Available in full range of section sizes
- Available ex-stock
- Competitively priced
- High load bearing capacity

- Can be easily treated to e2S, H2 and H3 Hazard Classes. When the e-beam+ [F17] LVL is treated to a e2S Hazard Class in the Wesbeam mill it is guaranteed for 25 years against termite attack when used South of the Tropic of Capricorn
- High strength yet lighter and safer to handle
- Chamfered edges for safer and more comfortable handling
- Made from plantation timber veneers
- Fully supported by Wesbeam e-house and nail plate manufacturers' software
- Manufactured in Australia by a wholly owned Australian company
- Wesbeam has full Chain of Custody aligned with the Responsible Wood (RW) Certification Scheme and Program for the Endorsement of Forest Certification (PEFC)



## 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  * Available in lengths of 6.0m only
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+	62	5.3	34	47	14,000	JD3 <sup>1</sup>

<sup>1</sup> e-beam+ [F17] is the only plantation 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

### Veneer

Thickness	Constant through the product thickness
Species	Plantation 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/m<sup>3</sup> (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

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

### 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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