



e-beam⁺ 
[F17]



Chain of Custody
Certification

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 AS1720.1 – 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 as special manufacture up to 12.6m
- Available in full range of section sizes
- Can be easily treated to H2S, H2 and H3 Hazard Levels. When the e-beam+ [F17] LVL is treated to a H2S Hazard Level in the Wesbeam mill it is guaranteed for 25 years against termite attack when used South of the Tropic of Capricorn
- Available ex-stock
- Competitively priced
- High load bearing capacity
- High strength yet lighter and safer to handle
- Chamfered edges for safer and more comfortable handling
- Manufactured from 100% plantation pine
- 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 Australian Forestry Standard (AFS)

e-beam+ [F17] LVL Technical Details

e-beam+ [F17] Treatment

e-beam+ [F17] can be easily treated to H2S, H2 and H3 Hazard Levels.

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 ⁽¹⁾

⁽¹⁾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+ sections is permitted using vertically nail laminated members. Multiple e-beam+ members are to be nailed laminated in accordance with C1 2.3 of AS1684.2 – 2006. For assistance with the engineering design of multiple e-beam+ members please call a Wesbeam Technical Services Engineer.

e-beam+ [F17] Span Tables

In order to determine an e-beam+ member size simply use the F17 seasoned hardwood timber sizes listed in AS1684.2 – 2006 Appendix A for the design framing application.

specification

Veneer

Thickness	Constant through the product thickness
Species	Maritime Pine and/or Radiata Pine
Joints	Outer 2 plies are scarf jointed Inner plies – scarf and/or butt jointed

Moisture Content

8% – 15% (at time of despatch)

Dimensional Tolerances

Available on request

Straightness

Available on request

Density

660 kg/m³ (approximately)

Adhesive

Phenolic – AS 2754.1

Bond

Type A – AS/NZS 2098.2

Joint Group

JD3 – for nails, bolts and screws

Finish

Unsanded faces, sawn edges and arrised edges.

Branding

Each piece of e-beam is branded as 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

100% Certified plantation pine to AS4708-2004

Condition

Untreated



PO Box 217
Wanneroo, WA 6946
190 Pederick Road
Neerabup, WA 6031
Australia

T (08) 9306 0400
F (08) 9306 0444
E wesbeam@wesbeam.com
W www.wesbeam.com