PRODUCT OF AUSTRALIA

wesbeam
building better wood

PRODUCT CERTIFIED
paa ENGINEERED WOOD
JAS-ANZ
WWW.JAS-ANZ.ORG/REGISTER

e-beam+ [F17]

engineered LVL F17 hardwood substitute

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e-beam+ [F17]

ENGINEERED TO LOAD

ENGINEERED TO LENGTH

ENGINEERED TO LAST

END OF STORY

JD3 rated for greater connection strength

e2S termite treated

Distinctive blue colour makes it easy to spot in the warehouse or on site

Made in Australia

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] LVL will meet and/or exceed the F17 KD Hardwood Structural Design Properties prescribed in AS1720.1:2010-Timber structures Part 1:Design methods in all residential and commercial applications.

- The only F17 Hardwood substitute that has a JD3 Joint Grouping on both the face and edge of the LVL member
- 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 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
- 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
- Made from sustainably sourced 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)

About e-beam+ [F17] LVL

e-beam+ [F17] LVL conforms with the requirements of AS/NZS 4357 Structural Laminated Veneer Lumber. It is manufactured by laminating Maritime Pine veneer, using phenolic adhesive, in a continuous assembly in which the grain direction of all veneers runs longitudinally. It is pressed as a 1.2m nominal width continuous billet in various standard thicknesses, cut to standard widths and any specified length for use as structural beams and other framing components.

Use of e-beam+ [F17] LVL Data

The tables and other technical data provided in this publication are only applicable to e-beam+ [F17] LVL manufactured by Wesbeam. This data should not be used for look-alike or substitute products. Use of the e-beam+ [F17] LVL data for look-alike or substitute products can result in unsafe or unsatisfactory performance.

Basis for Design

The design criteria used to develop the Span Tables contained in this brochure are based on the assumptions listed in AS1720.3: 2016-Timber structures Part 3:Design criteria for timber-framed residential buildings.

Design Loads

The design loads used to determine member sizes listed in the Span Tables are as per AS1720.3: 2016-Timber structures Part 3:Design criteria for timber-framed residential buildings. The design loads include:

- Permanent loads
- Imposed loads
- Wind loads
- Snow loads
- Earthquake loads, and
- Load combinations of the above loads

Design load limitations for each of the above load or load combination cases are also as per AS1720.3: 2016-Timber structures Part 3:Design criteria for timber-framed residential buildings.

Design Capacity Factor (ø)

The capacity factor (ø) used to calculate the design capacity of a structural framing member listed in the Span Tables is taken from Table 2 in AS1720.1:2010-Timber structures Part 1:Design methods where for all LVL structural elements used in residential houses ø = 0.95.

Terminology, Definitions and Notations used in these Tables

The terminology, definitions and notations used in this brochure are similar to and consistent with those used and listed in AS1720.3: 2016-Timber structures Part 3:Design criteria for timber-framed residential buildings.

Using Multiple Sections

The use of multiple sections where called for in the Span Tables is permitted using vertically nail laminated LVL. Multiple LVL members are to be fixed in accordance with Cl 2.3 of AS1684.2: 2010 Residential timber framed construction Part 2: Non-cyclonic areas.

Characteristic Design Values

The characteristic design values for Wesbeam e-beam+ [F17] LVL are available on request from Wesbeam's Technical Department. This service is available for professional design practioners.

The spans listed in this brochure for e-beam+ [F17] LVL manufactured by Wesbeam apply only when the moisture content of the LVL is below 15% in service and are for "on edge" orientation of the LVL section.

e-beam+ [F17] LVL treatment

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

e-beam+ [F17] LVL 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.

RAFTERS

WIND CLASSIFICATION N1, N2, N3

e-beam+ [F17] LVL Section D X B (mm)	Roof Mass kg/m²	Single Span								Continuous Span							
		Maximum Rafter Spacing (mm)															
		450		600		900		1200		450		600		900		1200	
		Maximum Rafter Span and Overhang 'O/H' (m)															
		SPAN	O/H	SPAN	O/H	SPAN	O/H	SPAN	O/H	SPAN	O/H	SPAN	O/H	SPAN	O/H	SPAN	O/H
90 x 35	10	3.0	0.7	2.8	0.5	2.5	0.6	2.3	0.4	3.9	0.6	3.4	0.5	3.1	0.6	2.9	0.4
	20	3.0	0.7	2.8	0.6	2.5	0.5	2.3	0.6	3.9	0.6	3.4	0.5	3.1	0.6	2.9	0.5
	30	3.0	0.7	2.6	0.6	2.3	0.7	2.2	0.5	3.9	0.6	3.4	0.5	3.1	0.6	2.9	0.5
	40	2.6	0.8	2.4	0.6	2.1	0.7	2.0	0.5	3.6	0.7	3.3	0.5	2.9	0.6	2.7	0.5
	60	2.3	0.8	2.1	0.7	1.9	0.6	1.7	0.5	3.2	0.7	2.9	0.6	2.6	0.7	2.3	0.5
	75	2.2	0.8	2.0	0.7	1.8	0.6	1.6	0.5	3.0	0.7	2.7	0.6	2.4	0.7	2.2	0.5
	90	2.1	0.8	1.9	0.7	1.7	0.8	1.5	0.6	2.8	0.7	2.6	0.6	2.3	0.7	2.1	0.6
90 x45	10	3.4	0.7	3.2	0.6	2.9	0.7	2.8	0.5	4.5	0.6	4.1	0.5	3.7	0.6	3.4	0.5
	20	3.4	0.8	3.2	0.6	2.8	0.7	2.6	0.5	4.5	0.6	4.1	0.5	3.7	0.6	3.4	0.5
	30	3.1	0.8	2.9	0.6	2.5	0.7	2.3	0.5	4.2	0.7	3.9	0.5	3.5	0.6	3.2	0.5
	40	2.8	0.8	2.6	0.7	2.3	0.7	2.1	0.6	3.9	0.7	3.6	0.6	3.2	0.7	2.9	0.5
	60	2.5	0.9	2.3	0.7	2.0	0.8	1.9	0.6	3.4	0.8	3.2	0.6	2.8	0.7	2.5	0.6
	75	2.4	0.9	2.2	0.8	1.9	0.7	1.7	0.6	3.2	0.8	3.0	0.6	2.6	0.7	2.4	0.6
	90	2.2	0.9	2.0	0.8	1.8	0.7	1.6	0.6	3.0	0.8	2.8	0.7	2.5	0.6	2.2	0.7
120 x 35	10	4.8	0.9	4.5	0.7	3.9	0.8	3.5	0.6	6.5	0.8	6.1	0.6	5.1	0.8	4.9	0.6
	20	4.1	1.0	3.9	0.8	3.5	0.7	3.2	0.6	5.6	0.8	5.2	0.6	4.7	0.8	4.4	0.6
	30	3.8	1.0	3.5	0.8	3.1	0.7	2.9	0.6	5.2	0.9	4.8	0.7	4.2	0.6	3.9	0.8
	40	3.5	1.0	3.2	0.8	2.8	0.9	2.6	0.6	4.7	0.9	4.4	0.7	3.9	0.8	3.5	0.6
	60	3.1	1.1	2.8	0.9	2.5	0.8	2.3	0.7	4.2	1.0	3.9	0.8	3.4	0.7	3.1	0.9
	75	2.9	1.1	2.6	0.9	2.3	0.8	2.1	0.7	3.9	1.0	3.6	0.8	3.2	0.9	2.9	0.7
	90	2.7	1.2	2.5	1.0	2.2	0.9	2.0	0.7	3.7	1.0	3.4	0.8	3.0	0.9	2.7	0.7
120 x 45	10	5.0	1.0	4.7	0.8	4.2	0.7	3.9	0.9	6.8	0.8	6.4	0.6	5.8	0.8	5.4	0.7
	20	4.4	1.0	4.1	0.8	3.7	0.9	3.4	0.7	6.0	0.9	5.6	0.7	5.0	0.8	4.7	0.7
	30	4.0	1.1	3.6	0.9	3.4	0.8	3.1	0.7	5.5	0.9	5.2	0.7	4.5	0.9	4.2	0.7
	40	3.7	1.1	3.4	0.9	3.1	1.0	2.8	0.7	5.0	1.0	4.7	0.8	4.2	0.9	3.8	0.7
	60	3.3	1.2	3.1	1.0	2.7	0.9	2.5	0.8	4.5	1.0	4.2	0.8	3.7	0.9	3.4	0.8
	75	3.2	1.2	2.9	1.0	2.5	1.1	2.3	0.8	4.2	1.1	4.2	0.9	3.4	0.8	3.1	1.0
	90	3.0	1.2	2.7	1.0	2.4	1.1	2.2	0.8	4.0	1.1	3.7	0.9	3.3	1.0	3.0	0.8
140 x 35	10	5.4	0.8	5.2	1.0	4.6	0.8	4.1	0.7	7.2	0.9	7.0	0.7	6.4	0.9	5.8	0.7
	20	4.8	1.1	4.5	0.9	4.0	0.8	3.7	0.7	6.5	0.9	6.0	0.7	5.5	0.9	5.1	0.7
	30	4.3	1.2	4.1	0.9	3.6	0.8	3.3	0.7	6.0	1.0	5.5	0.8	4.9	0.7	4.5	0.9
	40	4.0	1.2	3.7	1.0	3.3	0.9	3.0	0.7	5.5	1.0	5.0	0.8	4.5	1.0	4.1	0.7
	60	3.6	1.3	3.3	1.0	2.9	0.9	2.7	0.8	4.9	1.1	4.5	0.9	4.0	0.8	3.6	1.0
	75	3.4	1.3	3.1	1.1	2.7	1.0	2.5	0.8	4.6	1.1	4.2	0.9	3.7	1.0	3.4	0.8
	90	3.2	1.3	2.9	1.1	2.6	1.0	2.3	0.8	4.3	1.2	4.0	0.9	3.5	1.1	3.2	0.8
140 x 45	10	5.7	1.1	5.4	0.9	5.0	1.0	4.5	0.8	7.5	1.0	7.2	0.7	6.7	0.9	6.3	0.8
	20	5.0	1.2	4.7	1.0	4.3	0.9	4.0	0.8	6.8	1.0	6.4	0.8	5.8	0.9	5.4	0.7
	30	4.6	1.3	4.4	1.0	3.9	1.1	3.6	0.8	6.3	1.1	5.9	0.9	5.3	0.8	4.9	1.0
	40	4.3	1.3	4.0	1.1	3.6	1.0	3.3	0.8	5.8	1.1	5.4	0.9	4.8	1.0	4.4	0.8
	60	3.9	1.4	3.6	1.1	3.2	1.0	2.9	0.9	5.2	1.2	4.8	1.0	4.3	0.9	3.9	1.1
	75	3.7	1.4	3.4	1.2	3.0	1.1	2.7	0.9	5.0	1.2	4.5	1.0	4.0	1.1	3.7	0.9
	90	3.4	1.4	3.2	1.2	2.8	1.1	2.5	1.0	4.7	1.3	4.3	1.0	3.8	1.2	3.5	1.0

RAFTERS

WIND CLASSIFICATION N1, N2, N3

e-beam+ [F17] LVL Section D X B (mm)	Roof Mass kg/m²	Single Span								Continuous Span							
		Maximum Rafter Spacing (mm)															
		450		600		900		1200		450		600		900		1200	
		Maximum Rafter Span and Overhang 'O/H' (m)															
		SPAN	O/H	SPAN	O/H	SPAN	O/H	SPAN	O/H	SPAN	O/H	SPAN	O/H	SPAN	O/H	SPAN	O/H
170 x 35	10	6.4	1.2	6.1	0.9	5.5	1.1	5.0	0.8	NS	NS	7.9	0.8	7.4	1.0	7.0	0.8
	20	5.6	1.2	5.3	1.0	4.8	0.9	4.5	0.8	7.4	1.1	7.0	0.8	6.5	1.0	6.0	0.8
	30	5.1	1.3	4.8	1.1	4.3	0.9	4.0	0.8	6.8	0.9	6.5	1.1	6.0	0.8	5.4	1.0
	40	4.8	1.4	4.5	1.1	4.0	1.0	3.7	0.8	6.5	1.2	6.0	0.9	5.4	1.1	5.0	0.8
	60	4.3	1.4	4.0	1.2	3.5	1.0	3.2	0.9	5.9	1.0	5.4	1.2	4.8	1.0	4.4	0.9
	75	4.0	1.5	3.8	1.2	3.3	1.1	3.0	0.9	5.5	1.3	5.1	1.0	4.5	1.2	4.1	0.9
	90	3.8	1.5	3.5	1.3	3.0	1.1	2.8	0.9	5.2	1.3	4.8	1.1	4.2	1.0	3.9	0.9
190 x 35	10	7.0	1.4	6.7	1.1	6.2	1.0	5.6	0.9	NS	NS	NS	NS	8.0	1.2	7.6	0.9
	20	6.2	1.5	5.9	1.2	5.3	1.1	4.9	0.9	8.0	1.3	7.6	1.0	7.0	1.2	6.7	0.9
	30	5.8	1.5	5.4	1.3	4.7	1.1	4.4	0.9	7.4	1.3	7.0	1.0	6.5	1.2	6.0	0.9
	40	5.3	1.6	4.9	1.3	4.4	1.1	4.1	0.9	7.0	1.4	6.7	1.1	6.0	1.0	5.5	0.9
	60	4.8	1.7	4.4	1.4	3.9	1.2	3.6	1.0	6.5	1.5	6.0	1.2	5.3	1.1	4.9	1.0
	75	4.5	1.7	4.2	1.4	3.7	1.2	3.4	1.0	6.1	1.5	5.7	1.2	5.0	1.4	4.6	1.0
	90	4.3	1.8	3.9	1.5	3.5	1.3	3.2	1.1	5.8	1.6	5.3	1.3	4.7	1.2	4.3	1.1
190 x 45	10	7.2	1.5	7.0	1.2	6.5	1.1	6.1	1.0	NS	NS	NS	NS	NS	NS	7.9	1.0
	20	6.5	1.6	6.2	1.3	5.7	1.2	5.3	1.0	NS	NS	7.9	1.1	7.3	1.0	6.9	1.3
	30	6.1	1.7	5.8	1.4	5.2	1.2	4.8	1.0	7.7	1.5	7.3	1.2	6.8	1.1	6.4	1.0
	40	5.7	1.7	5.3	1.4	4.7	1.3	4.4	1.1	7.3	1.5	7.0	1.2	6.4	1.4	5.9	1.1
	60	5.1	1.8	4.7	1.5	4.2	1.3	3.9	1.1	7.0	1.6	6.4	1.3	5.7	1.2	5.3	1.1
	75	4.8	1.9	4.4	1.6	4.0	1.4	3.6	1.2	6.4	1.6	6.1	1.3	5.4	1.5	5.0	1.2
	90	4.6	1.9	4.2	1.6	3.8	1.5	3.4	1.2	6.2	1.7	5.7	1.4	5.1	1.3	4.7	1.2
240 x 45	10	8.3	1.9	8.0	1.5	7.7	1.4	7.4	1.2	NS	NS	NS	NS	NS	NS	NS	NS
	20	7.6	2.0	7.2	1.6	7.0	1.4	6.5	1.2	NS	NS	NS	NS	NS	NS	NS	NS
	30	7.2	2.0	6.8	1.7	6.3	1.4	6.0	1.2	NS	NS	NS	NS	8.0	1.3	7.6	1.2
	40	7.0	2.1	6.5	1.7	5.9	1.5	5.5	1.2	NS	NS	NS	NS	7.6	1.4	7.1	1.2
	60	6.3	2.2	5.9	1.8	5.3	1.6	4.9	1.3	8.0	1.9	7.6	1.6	6.9	1.5	6.6	1.3
	75	6.0	2.3	5.6	1.9	4.9	1.6	4.6	1.4	7.6	2.0	7.2	1.6	6.6	1.5	6.1	1.4
	90	5.7	2.3	5.3	1.9	4.7	1.7	4.3	1.4	7.3	2.0	6.9	1.7	6.4	1.6	5.9	1.4
290 x 45	10	9.4	2.4	9.1	1.9	8.7	1.7	8.4	1.4	NS	NS	NS	NS	NS	NS	NS	NS
	20	8.7	2.5	8.4	2.0	7.8	1.7	7.5	1.4	NS	NS	NS	NS	NS	NS	NS	NS
	30	8.2	2.6	7.8	2.1	7.3	1.7	6.9	1.5	NS	NS	NS	NS	NS	NS	NS	NS
	40	7.8	2.7	7.5	2.2	7.0	1.8	6.5	1.5	NS	NS	NS	NS	NS	NS	NS	NS
	60	7.3	2.8	7.0	2.3	6.3	1.9	5.8	1.6	NS	NS	NS	NS	8.0	1.9	7.5	1.6
	75	7.0	2.8	6.6	2.4	6.0	2.0	5.4	1.7	NS	NS	NS	NS	7.6	1.9	7.1	1.7
	90	6.8	2.9	6.3	2.4	5.6	2.1	5.2	1.8	NS	NS	7.9	2.1	7.2	2.0	6.8	1.8

NS indicates that this span is not available due to manufacturing and transport length limitations

ROOF BEAMS

RIDGE, INTERMEDIATE, EAVE
AND BRESSUMMER BEAMS

WIND CLASSIFICATION N1, N2, N3

e-beam+ [F17] LVL Section D X B (mm)	Sheet Roof and Ceiling											
	Roof Load Width 'RLW' (m)											
	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.8	5.4	6.0
Maximum Single Span (m)												
140 x 35	2.8	2.6	2.5	2.4	2.3	2.2	2.1	2.1	2.0	1.9	1.8	1.8
140 x 45	3.0	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.2	2.1	2.0	1.9
170 x 35	3.1	3.0	2.8	2.7	2.6	2.5	2.4	2.4	2.3	2.2	2.1	2.0
190 x 35	3.7	3.5	3.3	3.2	3.1	2.9	2.9	2.8	2.7	2.6	2.4	2.3
190 x 45	3.9	3.7	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.7	2.6	2.5
240 x 35	4.4	4.1	4.0	3.8	3.7	3.5	3.4	3.3	3.2	3.1	2.8	2.7
240 x 45	4.7	4.4	4.2	4.1	3.9	3.8	3.7	3.6	3.5	3.3	3.1	3.0
290 x 45	5.8	5.5	5.3	5.1	4.9	4.7	4.6	4.4	4.3	4.1	3.9	3.8
Maximum Continuous Span (m)												
140 x 35	3.7	3.5	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.3
140 x 45	4.0	3.8	3.6	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.6	2.5
170 x 35	4.2	4.0	3.8	3.6	3.5	3.4	3.3	3.2	3.1	2.9	2.8	2.6
190 x 35	4.9	4.6	4.4	4.2	4.1	3.9	3.8	3.7	3.5	3.3	3.2	3.0
190 x 45	5.2	5.0	4.8	4.6	4.4	4.2	4.1	4.0	3.9	3.7	3.5	3.4
240 x 35	5.8	5.4	5.1	4.9	4.7	4.4	4.1	4.0	3.8	3.6	3.4	3.2
240 x 45	6.3	6.0	5.7	5.5	5.3	5.1	4.9	4.8	4.6	4.4	4.2	4.0
290 x 45	7.3	7.1	6.8	6.6	6.3	6.1	5.9	5.7	5.5	5.2	5.0	4.7

ROOF BEAMS

RIDGE, INTERMEDIATE, EAVE
AND BRESSUMMER BEAMS

WIND CLASSIFICATION N1, N2, N3

e-beam+ [F17] LVL Section D X B (mm)	Tile Roof and Ceiling											
	Roof Load Width 'RLW' (m)											
	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.8	5.4	6.0
Maximum Single Span (m)												
140 x 35	2.2	2.0	1.9	1.9	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.4
140 x 45	2.3	2.2	2.1	2.0	1.9	1.9	1.8	1.8	1.7	1.6	1.6	1.5
170 x 35	2.4	2.3	2.2	2.1	2.0	2.0	1.9	1.9	1.8	1.7	1.7	1.6
190 x 35	2.9	2.7	2.6	2.5	2.4	2.3	2.3	2.2	2.1	2.0	1.8	1.8
190 x 45	3.1	2.9	2.8	2.7	2.6	2.5	2.4	2.4	2.3	2.2	2.1	2.0
240 x 35	3.4	3.3	3.1	3.0	2.9	2.7	2.6	2.5	2.4	2.2	2.0	1.9
240 x 45	3.7	3.5	3.3	3.2	3.1	3.0	2.9	2.8	2.8	2.6	2.5	2.4
290 x 45	4.6	4.4	4.2	4.0	3.9	3.7	3.6	3.5	3.4	3.3	3.1	3.0
Maximum Continuous Span (m)												
140 x 35	2.9	2.7	2.6	2.5	2.4	2.3	2.3	2.2	2.1	2.0	1.9	1.8
140 x 45	3.1	2.9	2.8	2.7	2.6	2.5	2.4	2.4	2.3	2.2	2.1	2.0
170 x 35	3.3	3.1	3.0	2.8	2.7	2.6	2.6	2.5	2.4	2.3	2.1	2.0
190 x 35	3.8	3.6	3.5	3.3	3.2	3.1	3.0	2.9	2.8	2.6	2.5	2.3
190 x 45	4.1	3.9	3.7	3.6	3.5	3.4	3.2	3.2	3.1	2.9	2.8	2.7
240 x 35	4.6	4.4	4.1	3.9	3.8	3.5	3.4	3.3	3.2	3.0	2.8	2.6
240 x 45	4.9	4.7	4.5	4.3	4.2	4.0	3.9	3.8	3.7	3.5	3.4	3.1
290 x 45	6.1	5.8	5.6	5.3	5.1	4.9	4.7	4.5	4.4	4.2	3.9	3.7

COUNTER BEAMS

SUPPORTING HANGING BEAMS

e-beam+ [F17] LVL Section D X B (mm)	Ceiling Load Width 'CLW' (m)							
	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6
	Maximum Span (m)							
140 x 35	3.4	3.2	3.0	2.9	2.8	2.7	2.6	2.5
140 x 45	3.7	3.4	3.3	3.1	3.0	2.9	2.8	2.7
170 x 35	3.9	3.6	3.4	3.3	3.1	3.0	2.8	2.7
190 x 35	4.4	4.1	3.8	3.6	3.5	3.2	3.1	3.0
190 x 45	4.8	4.5	4.3	4.1	3.9	3.8	3.7	3.6
240 x 35	4.8	4.4	4.1	4.0	3.8	3.6	3.5	3.4
240 x 45	5.4	5.2	5.0	4.8	4.6	4.3	4.2	4.1
290 x 45	6.4	6.0	5.6	5.3	5.1	4.8	4.7	4.6

1 Counter beams to support ceiling loads only - via hanging beams.
2 All sections with a depth to breadth ratio exceeding 7:1 must be laterally restrained in accordance with AS1684.2:2010.
3 Bearing length at end supports to be not less than 70mm.
4 Beam ends may be chamfer cut to a minimum depth of 90mm or D/3, whichever is greater.

VERANDAH BEAMS

WIND CLASSIFICATION N1, N2, N3

e-beam+ [F17] LVL Section D X B (mm)	Roof Mass kg/m²	Single Span							Continuous Span						
		Roof Load Width 'RLW' (m)													
		0.9	1.2	1.5	1.8	2.1	2.4	2.7	0.9	1.2	1.5	1.8	2.1	2.4	2.7
		Maximum Span (m)													
120 x 35	10	3.6	3.3	3.1	2.9	2.8	2.7	2.6	4.0	3.9	3.7	3.4	3.2	3.0	2.8
	20	3.3	3.0	2.8	2.7	2.5	2.5	2.4	4.0	3.9	3.7	3.4	3.2	3.0	2.9
	40	2.7	2.5	2.4	2.3	2.1	1.9	1.9	3.6	3.3	3.0	2.9	2.7	2.6	2.5
	75	2.3	2.0	1.9	1.7	1.6	1.6	1.5	3.0	2.7	2.5	2.4	2.2	2.1	2.1
	90	2.1	1.9	1.8	1.7	1.6	1.5	1.5	2.8	2.6	2.4	2.2	2.1	2.0	1.9
120 x 45	10	3.9	3.5	3.3	3.1	2.9	2.9	2.8	4.2	4.2	4.1	3.8	3.5	3.3	3.1
	20	3.5	3.2	3.0	2.8	2.7	2.6	2.5	4.2	4.2	4.0	3.7	3.5	3.4	3.2
	40	2.9	2.7	2.5	2.4	2.3	2.2	2.1	3.9	3.5	3.3	3.1	2.9	2.8	2.7
	75	2.4	2.2	2.0	1.9	1.8	1.7	1.6	3.2	2.9	2.7	2.5	2.4	2.3	2.2
	90	2.3	2.1	1.9	1.7	1.7	1.6	1.6	3.1	2.8	2.6	2.4	2.3	2.2	2.1
140 x 35	10	4.1	3.8	3.5	3.3	3.2	3.0	2.9	5.0	4.8	4.2	3.9	3.6	3.4	3.2
	20	3.8	3.4	3.2	3.0	2.8	2.7	2.7	4.8	4.4	4.2	4.0	3.7	3.4	3.3
	40	3.1	2.9	2.7	2.6	2.4	2.4	2.3	4.1	3.8	3.5	3.3	3.1	3.0	2.9
	75	2.6	2.4	2.2	2.0	1.9	1.8	1.7	3.4	3.1	2.9	2.7	2.6	2.5	2.4
	90	2.5	2.2	2.0	1.9	1.8	1.7	1.6	3.2	3.0	2.7	2.6	2.5	2.4	2.2
140 x 45	10	4.4	4.1	3.8	3.5	3.4	3.3	3.1	5.2	5.1	4.9	4.5	4.1	3.8	3.5
	20	4.0	3.6	3.4	3.2	3.0	2.9	2.8	5.0	4.7	4.4	4.2	4.1	3.9	3.7
	40	3.3	3.0	2.8	2.7	2.6	2.5	2.4	4.3	4.1	3.8	3.6	3.4	3.2	3.1
	75	2.8	2.5	2.4	2.2	2.1	2.0	1.9	3.7	3.4	3.1	3.0	2.8	2.7	2.6
	90	2.6	2.4	2.2	2.1	2.0	1.8	1.8	3.6	3.2	3.0	2.8	2.6	2.5	2.4
170 x 35	10	4.5	4.4	4.0	3.8	3.5	3.4	3.2	5.4	5.1	4.8	4.3	4.0	3.7	3.5
	20	4.2	3.8	3.5	3.3	3.2	3.0	2.9	5.2	4.9	4.6	4.4	4.1	3.9	3.6
	40	3.5	3.2	3.0	2.8	2.7	2.6	2.5	4.5	4.2	4.0	3.7	3.6	3.4	3.2
	75	2.9	2.7	2.5	2.3	2.2	2.1	2.0	3.9	3.6	3.3	3.1	3.0	2.8	2.7
	90	2.8	2.5	2.4	2.2	2.1	1.9	1.9	3.7	3.3	3.1	2.9	2.8	2.6	2.5

VERANDAH BEAMS

WIND CLASSIFICATION N1, N2, N3

e-beam+ [F17] LVL Section D X B (mm)	Roof Mass kg/m²	Single Span							Continuous Span						
		Roof Load Width 'RLW' (m)													
		0.9	1.2	1.5	1.8	2.1	2.4	2.7	0.9	1.2	1.5	1.8	2.1	2.4	2.7
		Maximum Span (m)													
190 x 35	10	5.3	5.0	4.7	4.4	3.9	3.6	3.4	6.1	5.7	5.2	4.9	4.6	4.3	4.1
	20	4.8	4.4	4.2	4.0	3.7	3.6	3.4	5.9	5.5	5.2	5.0	4.8	4.4	4.2
	40	4.1	3.7	3.5	3.3	3.1	3.0	2.8	5.1	4.8	4.5	4.3	4.1	4.0	3.8
	75	3.4	3.1	2.9	2.7	2.6	2.5	2.4	4.4	4.1	3.9	3.7	3.5	3.3	3.2
	90	3.2	2.9	2.7	2.6	2.5	2.3	2.3	4.2	4.0	3.7	3.4	3.3	3.1	3.0
190 x 45	10	5.4	5.2	4.9	4.8	4.5	4.3	4.2	6.5	6.3	6.0	5.7	5.3	5.1	4.9
	20	4.9	4.6	4.4	4.2	4.0	3.8	3.6	6.1	5.7	5.5	5.2	5.0	4.9	4.7
	40	4.3	4.0	3.7	3.5	3.3	3.1	3.0	5.3	5.0	4.8	4.5	4.3	4.2	4.1
	75	3.7	3.4	3.1	2.9	2.8	2.6	2.5	4.7	4.4	4.1	3.9	3.7	3.6	3.4
	90	3.5	3.2	2.9	2.8	2.6	2.5	2.4	4.5	4.2	4.0	3.7	3.6	3.3	3.2
240 x 45	10	6.2	5.8	5.6	5.3	5.1	5.0	4.8	7.7	7.3	6.9	6.5	6.0	5.7	5.5
	20	5.5	5.2	5.0	4.8	4.6	4.5	4.3	6.9	6.5	6.2	6.0	5.7	5.5	5.3
	40	4.9	4.6	4.3	4.2	4.0	3.8	3.6	6.1	5.7	5.4	5.2	5.0	4.8	4.7
	75	4.3	4.0	3.8	3.5	3.3	3.2	3.1	5.3	5.0	4.7	4.5	4.3	4.2	4.1
	90	4.1	3.8	3.5	3.3	3.1	3.0	2.9	5.1	4.8	4.5	4.3	4.2	4.0	3.9
290 x 45	10	7.2	6.8	6.5	6.2	6.0	5.8	5.6	NS	NS	8.0	7.5	7.1	6.7	6.3
	20	6.5	6.1	5.8	5.6	5.4	5.2	5.0	NS	7.6	7.3	7.0	6.7	6.5	6.3
	40	5.7	5.4	5.1	4.9	4.7	4.6	4.4	7.2	6.7	6.4	6.1	5.9	5.7	5.5
	75	5.0	4.7	4.5	4.2	4.1	4.0	3.8	6.3	5.9	5.5	5.3	5.1	4.9	4.8
	90	4.8	4.5	4.3	4.1	3.9	3.7	3.6	6.0	5.6	5.3	5.1	4.9	4.8	4.6

NS indicates that this span is not available due to manufacturing and transport length limitations

1 Bearing length at end supports to be not less than 30mm and at intermediate supports for continuous span at least 65mm.

LINTELS

IN SINGLE OR UPPER STOREY
LOAD BEARING EXTERNAL WALLS

WIND CLASSIFICATION N1, N2, N3

e-beam+ [F17] LVL Section D X B (mm)	Sheet Roof and Ceiling									
	Roof Load Width 'RLW' (m)									
	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2
	Maximum Span (m)									
140 x 35	2.8	2.6	2.4	2.4	2.2	2.1	1.9	1.8	1.8	1.7
140 x 45	3.0	2.7	2.6	2.5	2.4	2.3	2.2	2.0	2.0	1.9
170 x 35	3.2	3.0	2.8	2.7	2.6	2.5	2.4	2.2	2.3	2.2
190 x 35	3.4	3.2	3.1	2.9	2.8	2.7	2.6	2.5	2.5	2.4
190 x 45	3.6	3.4	3.3	3.1	3.0	2.9	2.8	2.7	2.6	2.6
240 x 35	4.1	3.8	3.6	3.4	3.3	3.2	3.1	3.1	3.0	2.9
240 x 45	4.3	4.0	3.9	3.6	3.5	3.4	3.3	3.3	3.1	3.1
290 x 45	5.0	4.7	4.5	4.2	4.0	3.9	3.8	3.8	3.6	3.5
2/290 x 45	5.7	5.4	5.2	5.0	4.8	4.7	4.5	4.4	4.3	4.2

e-beam+ [F17] LVL Section D X B (mm)	Tile Roof and Ceiling									
	Roof Load Width 'RLW' (m)									
	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2
	Maximum Span (m)									
140 x 35	2.0	1.9	1.8	1.7	1.6	1.5	1.5	1.4	1.4	1.3
140 x 45	2.2	2.0	1.9	1.8	1.7	1.6	1.6	1.5	1.5	1.4
170 x 35	2.4	2.2	2.1	2.0	1.9	1.8	1.7	1.7	1.6	1.6
190 x 35	2.7	2.5	2.4	2.2	2.1	2.0	2.0	1.9	1.8	1.8
190 x 45	2.9	2.7	2.7	2.4	2.3	2.2	2.2	2.0	2.0	1.9
240 x 35	3.2	3.1	3.0	2.7	2.4	2.5	2.5	2.4	2.3	2.2
240 x 45	3.4	3.3	3.2	3.0	2.8	2.7	2.7	2.6	2.5	2.4
290 x 45	4.0	3.8	3.6	3.4	3.3	3.2	3.2	3.1	3.0	2.9
2/290 x 45	4.7	4.4	4.3	4.1	3.9	3.8	3.8	3.6	3.5	3.5

1 Bearing length to be not less than 35mm.
2 Multiple sections to be nail laminated in accordance with AS1684.2:2010.
3 Lintels to be used in conjunction with top plates, ledgers and head trimmers.
4 It is recommended that a clearance of at least 15mm is allowed over non-loadbearing window or door framing.

LINTELS

IN LOWER STOREY LOAD
BEARING EXTERNAL WALLS

WIND CLASSIFICATION N1, N2, N3

Sheet Roof and Ceiling															
e-beam+ [F17] LVL Section D X B (mm)	Floor Load Width 'FLW' (m)														
	1.8					2.4					3.0				
	Roof Load Width 'RLW' (m)														
	1.8	3.0	4.2	5.4	6.6	1.8	3.0	4.2	5.4	6.6	1.8	3.0	4.2	5.4	6.6
Maximum Span (m)															
140 x 35	1.8	1.7	1.7	1.6	1.5	1.7	1.6	1.6	1.5	1.5	1.6	1.6	1.5	1.5	1.4
140 x 45	2.0	1.9	1.8	1.7	1.7	1.8	1.8	1.7	1.6	1.6	1.7	1.7	1.6	1.6	1.5
2/140 x 35	2.2	2.1	2.0	2.0	1.9	2.1	2.0	1.9	1.9	1.8	2.0	1.9	1.9	1.8	1.8
170 x 35	2.2	2.1	2.0	1.9	1.8	2.0	2.0	1.9	1.8	1.8	1.9	1.9	1.8	1.7	1.7
190 x 35	2.4	2.3	2.2	2.1	2.0	2.3	2.2	2.1	2.0	2.0	2.1	2.1	2.0	1.9	1.9
190 x 45	2.6	2.5	2.4	2.3	2.2	2.4	2.3	2.3	2.2	2.1	2.3	2.2	2.2	2.1	2.0
2/190 x 35	3.0	2.8	2.7	2.6	2.5	2.8	2.7	2.6	2.5	2.4	2.7	2.6	2.5	2.4	2.3
240 x 35	3.0	2.9	2.7	2.6	2.5	2.8	2.7	2.6	2.5	2.4	2.7	2.6	2.5	2.4	2.4
240 x 45	3.2	3.1	3.0	2.8	2.8	3.0	2.9	2.8	2.7	2.6	2.9	2.8	2.7	2.6	2.6
2/240 x 35	3.5	3.4	3.3	3.2	3.1	3.4	3.3	3.2	3.1	3.0	3.3	3.2	3.1	3.0	2.9
2/240 x 45	3.8	3.6	3.5	3.4	3.3	3.6	3.5	3.4	3.3	3.2	3.5	3.4	3.3	3.2	3.1
290 x 45	3.7	3.5	3.4	3.3	3.2	3.5	3.4	3.3	3.2	3.1	3.4	3.3	3.2	3.1	3.1
2/290 x 45	4.3	4.2	4.0	3.9	3.8	4.1	4.0	3.9	3.8	3.7	4.0	3.9	3.8	3.7	3.6

1 Bearing length to be not less than 35mm.
2 Multiple sections to be nail laminated in accordance with AS1684.2:2010.
3 Lintels to be used in conjunction with top plates, ledgers and head trimmers.
4 It is recommended that a clearance of at least 15mm is allowed over non-loadbearing window or door framing.

LINTELS CONTINUED

IN LOWER STOREY LOAD
BEARING EXTERNAL WALLS

WIND CLASSIFICATION N1, N2, N3

Tile Roof and Ceiling															
e-beam+ [F17] LVL Section D X B (mm)	Floor Load Width 'FLW' (m)														
	1.8					2.4					3.0				
	Roof Load Width 'RLW' (m)														
	1.8	3.0	4.2	5.4	6.6	1.8	3.0	4.2	5.4	6.6	1.8	3.0	4.2	5.4	6.6
Maximum Span (m)															
140 x 35	1.7	1.5	1.4	1.4	1.3	1.6	1.5	1.4	1.3	1.3	1.5	1.4	1.3	1.3	1.2
140 x 45	1.8	1.6	1.5	1.5	1.4	1.7	1.6	1.5	1.4	1.4	1.6	1.5	1.4	1.4	1.3
2/140 x 35	2.0	1.9	1.8	1.7	1.6	1.9	1.8	1.7	1.6	1.6	1.9	1.7	1.7	1.6	1.5
170 x 35	2.0	1.8	1.7	1.6	1.5	1.9	1.8	1.7	1.6	1.5	1.8	1.7	1.6	1.5	1.5
190 x 35	2.2	2.0	1.9	1.8	1.7	2.1	1.9	1.8	1.7	1.7	2.0	1.9	1.8	1.7	1.6
190 x 45	2.4	2.2	2.0	1.9	1.8	2.3	2.1	2.0	1.9	1.8	2.2	2.0	1.9	1.8	1.8
2/190 x 35	2.7	2.5	2.4	2.2	2.1	2.6	2.4	2.3	2.2	2.1	2.5	2.3	2.2	2.1	2.0
240 x 35	2.7	2.5	2.4	2.2	2.1	2.6	2.4	2.3	2.2	2.1	2.5	2.3	2.2	2.1	2.0
240 x 45	3.0	2.7	2.6	2.4	2.3	2.8	2.6	2.5	2.4	2.3	2.7	2.5	2.4	2.3	2.2
2/240 x 35	3.3	3.1	3.0	2.8	2.7	3.2	3.0	2.9	2.7	2.6	3.1	2.9	2.8	2.7	2.5
2/240 x 45	3.5	3.3	3.2	3.0	2.9	3.4	3.2	3.1	3.0	2.8	3.3	3.1	3.0	2.9	2.8
290 x 45	3.4	3.2	3.1	2.9	2.8	3.3	3.1	3.0	2.8	2.7	3.2	3.0	2.9	2.8	2.7
2/290 x 45	4.0	3.8	3.6	3.5	3.4	3.9	3.7	3.5	3.4	3.3	3.8	3.6	3.5	3.3	3.2

1 Bearing length to be not less than 35mm.
2 Multiple sections to be nail laminated in accordance with AS1684.2:2010.
3 Lintels to be used in conjunction with top plates, ledgers and head trimmers.
4 It is recommended that a clearance of at least 15mm is allowed over non-loadbearing window or door framing.

LINTELS

SUPPORTING TRUNCATED GIRDER TRUSS

WIND CLASSIFICATION N1, N2, N3

e-beam+ [F17] LVL Section D X B (mm)	2400 Setback					
	Sheet Roof and Ceiling			Tile Roof and Ceiling		
	Truss Span (m)			Truss Span (m)		
	6.0	7.5	9.0	6.0	7.5	9.0
	Maximum Span (m)					
120 x 35	1.6	1.4	1.3	1.2	1.1	1.0
120 x 45	1.8	1.6	1.5	1.3	1.2	1.1
140 x 35	2.0	1.8	1.6	1.4	1.3	1.2
140 x 45	2.2	2.0	1.8	1.5	1.4	1.3
170 x 35	2.5	2.3	2.1	1.7	1.6	1.5
190 x 35	2.8	2.6	2.4	2.0	1.8	1.7
190 x 45	3.0	2.8	2.6	2.2	2.0	1.8
2/190 x 45	3.6	3.4	3.2	2.9	2.6	2.5
240 x 45	3.6	3.4	3.3	2.9	2.7	2.5
2/240 x 45	4.3	4.1	3.9	3.5	3.3	3.2
290 x 45	4.2	4.0	3.8	3.4	3.2	3.1
2/290 x 45	4.9	4.7	4.5	4.0	3.8	3.7

e-beam+ [F17] LVL Section D X B (mm)	3600 Setback					
	Sheet Roof and Ceiling			Tile Roof and Ceiling		
	Truss Span (m)			Truss Span (m)		
	9.0	10.5	12.0	9.0	10.5	12.0
	Maximum Span (m)					
120 x 35	1.2	1.0	0.9	0.9	0.9	0.6
120 x 45	1.3	1.2	1.1	1.0	0.9	0.9
140 x 35	1.4	1.3	1.4	1.0	1.0	1.0
140 x 45	1.6	1.5	1.4	1.2	1.1	1.0
170 x 35	2.0	1.8	1.7	1.4	1.2	1.1
190 x 35	2.2	2.0	1.9	1.5	1.4	1.3
190 x 45	2.4	2.3	2.1	1.7	1.6	1.5
2/190 x 45	3.1	2.9	2.8	2.3	2.1	2.0
240 x 45	3.1	3.0	2.8	2.3	2.1	2.0
2/240 x 45	3.8	3.6	3.5	3.0	2.8	2.7
290 x 45	3.6	3.5	3.3	2.9	2.7	2.5
2/290 x 45	4.4	4.2	4.1	3.5	3.4	3.2

1 Bearing length to be not less than 35mm.
2 Multiple sections to be nail laminated in accordance with AS1684.2:2010.
3 Lintels to be used in conjunction with top plates, ledgers and head trimmers.
4 It is recommended that a clearance of at least 15mm is allowed over non-loadbearing window or door framing.
5 Maximum rafter or truss spacing – 600mm for tile roofs, 1200mm for sheet roofs.

LINTELS SUPPORTING STRUTTING BEAMS

STRUTTING BEAM SUPPORTING UNDERPURLINS AND HANGING BEAMS

WIND CLASSIFICATION N1, N2, N3

e-beam+ [F17] LVL Section D X B (mm)	Maximum Hanging Beam and/or Underpurlin Spans (m)	Sheet Roof and Ceiling					Tile Roof and Ceiling				
		Strutting Beam Span (m)									
		3.6	4.2	4.8	5.4	6.0	3.6	4.2	4.8	5.4	6.0
		Maximum Span (m)									
120 x 35	2.4	1.5	1.4	1.3	1.2	1.2	1.3	1.2	1.2	1.1	1.1
	4.2	1.2	1.2	1.2	1.2	1.2	1.1	1.0	1.0	0.9	0.8
120 x 45	2.4	1.9	1.7	1.6	1.5	1.4	1.4	1.3	1.2	1.2	1.2
	4.2	1.5	1.3	1.2	1.2	1.2	1.2	1.1	1.1	1.0	1.0
140 x 45	2.4	2.4	2.3	2.1	2.0	1.9	1.7	1.6	1.5	1.4	1.3
	4.2	2.0	1.7	1.6	1.5	1.4	1.4	1.3	1.2	1.2	1.2
2/140 x 35	2.4	2.7	2.5	2.4	2.4	2.4	2.0	1.8	1.8	1.7	1.6
	4.2	2.4	2.4	2.2	2.1	2.0	1.8	1.6	1.5	1.4	1.4
2/140 x 45	2.4	3.0	2.8	2.6	2.5	2.4	2.2	2.1	1.9	1.8	1.8
	4.2	2.6	2.4	2.4	2.4	2.2	1.9	1.8	1.7	1.6	1.5
190 x 35	2.4	2.7	2.5	2.4	2.4	2.4	2.2	2.0	1.9	1.8	1.8
	4.2	2.4	2.3	2.1	2.0	1.8	1.9	1.8	1.7	1.6	1.5
190 x 45	2.4	3.2	3.1	2.9	2.8	2.6	2.4	2.3	2.2	2.0	1.9
	4.2	2.8	2.6	2.4	2.4	2.4	2.1	1.9	1.8	1.8	1.7
240 x 45	2.4	3.8	3.7	3.6	3.5	3.4	3.1	3.0	2.8	2.7	2.5
	4.2	3.6	3.5	3.4	3.2	3.2	2.8	2.6	2.5	2.4	2.3
2/240 x 45	2.4	4.6	4.4	4.3	4.1	4.1	3.7	3.6	3.5	3.3	3.2
	4.2	4.4	4.1	4.1	3.8	3.9	3.5	3.3	3.2	3.1	3.0
2/290 x 45	2.4	5.3	5.0	4.9	4.8	4.8	4.3	4.2	4.1	3.9	3.8
	4.2	5.0	4.8	4.8	4.6	4.4	4.1	3.9	3.7	3.6	3.6

1 Bearing length to be not less than 35mm.
2 Multiple sections to be nail laminated in accordance with AS1684.2:2010.
3 Lintels to be used in conjunction with top plates, ledgers and head trimmers.
4 It is recommended that a clearance of at least 15mm is allowed over non-loadbearing window or door framing.
5 Maximum rafter or truss spacing – 600mm for tile roofs, 1200mm for sheet roofs.

FLOOR JOISTS

SUPPORTING FLOOR LOADS ONLY

e-beam+ [F17] LVL Section D X B (mm)	Floor Joist Spacing (mm)									
	300		400		450		480		600	
	Maximum single span and cantilever (m)									
	Span	Cant.	Span	Cant.	Span	Cant.	Span	Cant.	Span	Cant.
90 x 35	1.9	0.5	1.7	0.5	1.6	0.4	1.6	0.4	1.5	0.4
90 x 45	2.1	0.6	1.8	0.5	1.8	0.5	1.8	0.5	1.6	0.4
120 x 35	2.9	0.8	2.3	0.8	2.2	0.7	2.2	0.7	2.0	0.6
120 x 45	3.3	0.9	2.6	0.8	2.4	0.8	2.4	0.8	2.2	0.7
140 x 35	3.6	0.9	2.8	0.9	2.6	0.8	2.6	0.8	2.4	0.8
140 x 45	3.8	1.0	3.1	0.9	2.9	0.9	2.9	0.9	2.7	0.8
170 x 35	4.2	1.1	3.5	1.0	3.3	1.0	3.3	0.9	3.0	0.9
190 x 35	4.5	1.3	4.0	1.1	3.8	1.1	3.8	1.1	3.4	1.0
190 x 45	4.8	1.4	4.5	1.2	4.2	1.2	4.3	1.2	3.7	1.1
240 x 35	5.4	1.5	5.0	1.4	4.9	1.3	4.8	1.3	4.4	1.2
240 x 45	5.8	1.6	5.3	1.5	5.2	1.4	5.1	1.4	4.8	1.3
290 x 45	6.6	1.9	6.2	1.8	6.0	1.7	5.9	1.7	5.6	1.6
Maximum continuous span and cantilever (m)										
90 x 35	2.7	0.5	2.0	0.5	1.9	0.4	1.9	0.4	1.7	0.4
90 x 45	2.9	0.5	2.2	0.5	2.1	0.5	2.1	0.5	1.9	0.4
120 x 35	3.6	0.8	2.8	0.7	2.6	0.7	2.6	0.7	2.4	0.6
120 x 45	3.9	0.9	3.1	0.8	2.9	0.8	2.9	0.7	2.6	0.7
140 x 35	4.2	0.9	3.4	0.9	3.2	0.8	3.2	0.8	2.8	0.7
140 x 45	4.5	1.0	3.8	0.9	3.5	0.9	3.5	0.9	3.1	0.8
170 x 35	4.9	1.1	4.5	1.0	4.0	0.9	4.0	0.9	3.5	0.8
190 x 35	5.3	1.3	4.8	1.1	4.6	1.1	4.6	1.1	4.0	1.0
190 x 45	5.6	1.4	5.2	1.2	5.1	1.2	5.0	1.2	4.4	1.1
240 x 35	6.3	1.5	5.8	1.4	5.7	1.3	5.5	1.3	5.2	1.2
240 x 45	6.7	1.6	6.2	1.5	6.1	1.4	5.9	1.4	5.6	1.3
290 x 45	7.2	1.9	7.1	1.8	7.0	1.7	6.8	1.7	6.5	1.6

1 Joists with D/B > 4 should be blocked at supports as per AS1684.2:2010.
2 Cantilever spans should not exceed one half of the installed backspan.

FLOOR JOISTS

FOR TILED FLOORS OR FLOORS
SUPPORTING HEAVY FURNITURE

e-beam+ [F17] LVL Section D X B (mm)	Floor joist spacing (mm)					Floor joist spacing (mm)				
	300	400	450	480	600	300	400	450	480	600
	Maximum single span (m)					Maximum continuous span (m)				
90 x 35	1.9	1.7	1.6	1.6	1.5	2.5	2.0	1.9	2.0	1.8
90 x 45	2.1	1.8	1.8	1.8	1.7	2.7	2.2	2.1	2.2	2.0
120 x 35	2.6	2.3	2.2	2.2	2.1	3.3	2.8	2.6	2.8	2.5
120 x 45	2.8	2.6	2.4	2.4	2.3	5.6	3.1	3.0	3.1	2.7
140 x 35	3.1	2.8	2.6	2.6	2.4	3.8	3.4	3.2	3.3	3.0
140 x 45	3.3	3.0	2.9	2.9	2.6	4.1	3.8	3.5	3.6	3.3
170 x 35	3.7	3.4	3.3	3.2	3.0	4.6	4.3	4.0	4.0	3.7
190 x 35	4.1	3.8	3.6	3.6	3.3	5.0	4.7	4.5	4.5	3.1
190 x 45	4.5	4.1	3.9	3.9	3.6	5.3	5.0	4.8	4.7	4.5
240 x 35	5.0	4.7	4.5	4.5	4.2	5.9	5.5	5.4	5.3	5.0
240 x 45	5.3	4.9	4.8	4.8	4.5	6.3	5.9	5.7	5.6	5.4
290 x 45	6.1	5.7	5.5	5.5	5.2	7.2	6.8	6.6	6.5	6.2

1 Joists with D/B > 4 should be blocked at supports as per AS1684.2:2010.
2 Tables apply where the imposed load from floor coverings (tiles & mortar) or heavy furniture is between 50 and 100 kilogram per square metre.

FLOOR JOISTS

SUPPORTING PARALLEL LOAD
BEARING WALLS OVER OPENINGS

Sheet Roof And Ceiling																		
e-beam+ [F17] LVL Section D X B (mm)	Single Span									Continuous Span								
	Roof Load Width 'RLW' (m)																	
	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6
	Maximum Span (m)																	
2/90 x 35	1.7	1.6	1.6	1.5	1.5	1.4	1.4	1.3	1.3	2.3	2.2	2.1	2.0	1.9	1.9	1.8	1.8	1.7
2/90 x 45	1.9	1.8	1.7	1.6	1.6	1.5	1.5	1.4	1.4	2.5	2.4	2.3	2.2	2.1	2.0	2.0	1.9	1.9
2/120 x 35	2.3	2.2	2.1	2.0	2.0	1.9	1.8	1.8	1.7	3.1	2.9	2.8	2.7	2.6	2.5	2.4	2.4	2.3
2/120 x 45	2.5	2.4	2.3	2.2	2.1	2.0	2.0	1.9	1.9	3.3	3.2	3.0	2.9	2.8	2.7	2.6	2.6	2.5
2/140 x 35	2.7	2.6	2.4	2.3	2.3	2.2	2.1	2.1	2.0	3.6	3.4	3.2	3.1	3.0	2.9	2.8	2.8	2.7
2/140 x 45	2.9	2.8	2.6	2.5	2.5	2.4	2.3	2.3	2.2	3.9	3.7	3.5	3.4	3.3	3.2	3.1	3.0	2.9
2/170 x 35	3.3	3.1	3.0	2.8	2.7	2.7	2.6	2.5	2.5	4.3	4.1	4.0	3.8	3.7	3.6	3.5	3.4	3.3
2/190 x 35	3.6	3.5	3.3	3.2	3.1	3.0	2.9	2.8	2.7	4.8	4.6	4.4	4.2	4.1	4.0	3.9	3.8	3.7
2/190 x 45	4.0	3.7	3.6	3.4	3.3	3.2	3.1	3.0	3.0	5.0	4.9	4.7	4.6	4.4	4.3	4.2	4.1	4.0
2/240 x 45	4.8	4.6	4.5	4.3	4.2	4.1	4.0	3.8	3.8	6.0	5.8	5.6	5.4	5.3	5.2	5.1	5.0	4.9
2/290 x 45	5.5	5.3	5.2	5.0	4.9	4.8	4.7	4.6	4.5	6.9	6.6	6.4	6.2	6.1	5.9	5.8	5.7	5.6

Tile Roof And Ceiling																		
e-beam+ [F17] LVL Section D X B (mm)	Single Span									Continuous Span								
	Roof Load Width 'RLW' (m)																	
	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6
	Maximum Span (m)																	
2/90 x 35	1.5	1.4	1.3	1.2	1.2	1.1	1.1	1.1	1.1	2.0	1.8	1.7	1.6	1.6	1.5	1.5	1.4	1.4
2/90 x 45	1.6	1.4	1.4	1.3	1.3	1.2	1.2	1.2	1.1	2.1	2.0	1.9	1.8	1.7	1.6	1.6	1.5	1.5
2/120 x 35	2.0	1.8	1.7	1.6	1.6	1.5	1.5	1.4	1.4	2.6	2.5	2.3	2.2	2.1	2.0	2.0	1.9	1.9
2/120 x 45	2.1	2.0	1.9	1.8	1.7	1.6	1.6	1.5	1.5	2.9	2.7	2.5	2.4	2.3	2.2	2.1	2.1	2.0
2/140 x 35	2.3	2.1	2.0	1.9	1.8	1.8	1.7	1.7	1.6	3.1	2.9	2.7	2.6	2.5	2.4	2.3	2.2	2.1
2/140 x 45	2.5	2.3	2.2	2.1	2.0	1.9	1.9	1.8	1.8	3.3	3.1	3.0	2.8	2.7	2.6	2.5	2.4	2.3
2/170 x 35	2.8	2.6	2.5	2.3	2.2	2.1	2.1	2.0	2.0	3.7	3.5	3.3	3.1	3.0	2.9	2.8	2.7	2.6
2/190 x 35	3.1	2.9	2.8	2.6	2.5	2.4	2.3	2.3	2.2	4.2	3.9	3.7	3.5	3.3	3.2	3.1	3.0	2.9
2/190 x 45	3.4	3.1	3.0	2.8	2.7	2.6	2.5	2.5	2.4	4.5	4.2	4.0	3.8	3.6	3.5	3.4	3.3	3.2
2/240 x 45	4.2	4.0	3.7	3.6	3.4	3.3	3.2	3.1	3.0	5.3	5.1	4.9	4.7	4.6	4.4	4.3	4.1	4.0
2/290 x 45	5.0	4.7	4.5	4.3	4.1	4.0	3.9	3.7	3.6	6.1	5.9	5.6	5.4	5.2	5.1	5.0	4.9	4.7

1 Bearing length to be not less than 30mm at end supports and not less than 65mm at intermediate supports for continuous span joists.X

BEARERS

SUPPORTING FLOOR LOADS ONLY

e-beam+ [F17] LVL Section D X B (mm)	Floor Load Width 'FLW' (m)											
	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0
	Maximum single span (m)											
2/90 x 35	1.8	1.7	1.6	1.5	1.4	1.4	1.3	1.2	1.2	1.1	1.1	1.0
2/120 x 35	2.5	2.3	2.3	2.1	1.9	1.9	1.8	1.7	1.6	1.5	1.5	1.4
2/140 x 35	2.9	2.7	2.5	2.4	2.3	2.2	2.1	1.9	1.9	1.7	1.7	1.6
2/140 x 45	3.1	2.9	2.7	2.6	2.5	2.4	2.3	2.1	2.0	1.9	1.8	1.7
2/170 x 35	3.5	3.2	3.0	2.9	2.7	2.6	2.5	2.4	2.2	2.1	2.0	1.9
2/190 x 35	3.8	3.6	3.4	3.2	3.1	3.0	2.9	2.6	2.5	2.4	2.3	2.2
2/240 x 35	4.5	4.2	4.1	3.9	3.8	3.7	3.6	3.3	3.2	3.0	2.9	2.8
2/290 x 45	5.4	5.1	4.9	4.8	4.6	4.5	4.4	4.2	4.0	3.8	3.7	3.6
Maximum continuous span												
2/90 x 35	2.3	2.1	2.0	1.9	1.8	1.7	1.7	1.6	1.5	1.4	1.3	1.2
2/120 x 35	3.1	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.0	1.9	1.8	1.7
2/140 x 35	3.5	3.3	3.2	3.0	2.9	2.8	2.6	2.5	2.3	2.2	2.1	1.9
2/140 x 45	3.8	3.6	3.4	3.2	3.1	3.0	2.8	2.7	2.5	2.5	2.3	2.2
2/170 x 35	4.1	3.9	3.7	3.5	3.4	3.2	3.1	3.1	2.8	2.7	2.5	2.4
2/190 x 35	4.5	4.2	4.0	3.9	3.7	3.6	3.5	3.4	3.1	3.0	2.8	2.6
2/240 x 35	5.3	5.0	4.8	4.6	4.5	4.3	4.1	4.0	3.8	3.7	3.6	3.3
2/290 x 45	6.5	6.1	5.9	5.6	5.5	5.4	5.2	4.9	4.7	4.6	4.4	4.3

1 Sections with depth 200mm or greater must be restrained against rollover at supports.
2 Bearing length to be not less than 45mm at end supports or 90mm at intermediate supports for continuous span.

BEARERS

SUPPORTING SINGLE OR UPPER STOREY LOAD BEARING WALLS

WIND CLASSIFICATION N1, N2, N3

e-beam+ [F17] LVL Section D X B (mm)	Sheet Roof And Ceiling														
	Floor Load Width 'FLW' (m)														
	1.2					2.1					3.0				
	Roof Load Width 'RLW' (m)														
	1.8	3.0	4.2	5.4	6.6	1.8	3.0	4.2	5.4	6.6	1.8	3.0	4.2	5.4	6.6
Maximum single span (m)															
2/90 x 35	1.5	1.4	1.3	1.3	1.2	1.3	1.3	1.2	1.2	1.1	1.2	1.2	1.2	1.1	1.1
2/120 x 35	2.0	1.9	1.8	1.7	1.6	1.8	1.7	1.6	1.6	1.5	1.6	1.6	1.5	1.5	1.4
2/140 x 35	2.3	2.2	2.1	2.0	1.9	2.1	2.0	1.9	1.8	1.8	1.9	1.8	1.8	1.7	1.7
2/140 x 45	2.5	2.4	2.2	2.1	2.1	2.3	2.2	2.1	2.0	1.9	2.1	2.0	1.9	1.9	1.8
2/170 x 35	2.8	2.6	2.5	2.4	2.3	2.5	2.4	2.3	2.2	2.2	2.3	2.2	2.2	2.1	2.0
2/190 x 35	3.1	2.9	2.8	2.7	2.6	2.8	2.7	2.6	2.5	2.4	2.6	2.5	2.4	2.3	2.3
2/240 x 35	3.8	3.7	3.5	3.4	3.2	3.5	3.4	3.2	3.1	3.0	3.3	3.1	3.0	3.0	2.9
2/290 x 45	4.7	4.5	4.3	4.2	4.1	4.3	4.2	4.1	4.0	3.9	4.1	4.0	3.9	3.8	3.7
Maximum continuous span (m)															
2/90 x 35	2.0	1.9	1.8	1.7	1.6	1.8	1.7	1.7	1.6	1.5	1.7	1.6	1.6	1.5	1.5
2/120 x 35	2.7	2.5	2.4	2.3	2.2	2.4	2.3	2.2	2.1	2.1	2.2	2.1	2.1	2.0	2.0
2/140 x 35	3.1	2.9	2.8	2.6	2.5	2.8	2.7	2.6	2.5	2.4	2.6	2.5	2.4	2.3	2.3
2/140 x 45	3.4	3.2	3.0	2.9	2.8	3.0	2.9	2.8	2.7	2.6	2.8	2.7	2.6	2.5	2.5
2/170 x 35	3.7	3.5	3.3	3.2	3.1	3.4	3.2	3.1	3.0	2.9	3.1	3.0	2.9	2.8	2.8
2/190 x 35	4.0	3.8	3.7	3.6	3.4	3.8	3.6	3.5	3.4	3.2	3.4	3.4	3.3	3.2	3.1
2/240 x 35	4.8	4.6	4.4	4.3	4.1	4.5	4.3	4.2	4.1	4.0	4.2	4.1	4.0	3.9	3.8
2/290 x 45	5.8	5.6	5.4	5.2	5.0	5.4	5.2	5.1	5.0	4.8	5.1	5.0	4.9	4.8	4.7

1 Sections with depth 200mm or greater must be restrained against rollover at supports.
2 Bearing length to be not less than 45mm at end supports or 90mm at intermediate supports for continuous span.

BEARERS CONTINUED

SUPPORTING SINGLE OR UPPER
STOREY LOAD BEARING WALLS

WIND CLASSIFICATION N1, N2, N3

Tile Roof And Ceiling															
e-beam+ [F17] LVL Section D X B (mm)	Floor Load Width 'FLW' (m)														
	1.2					2.1					3.0				
	Roof Load Width 'RLW' (m)														
	1.8	3.0	4.2	5.4	6.6	1.8	3.0	4.2	5.4	6.6	1.8	3.0	4.2	5.4	6.6
Maximum single span (m)															
2/90 x 35	1.4	1.2	1.1	1.1	1.0	1.3	1.2	1.1	1.0	1.0	1.2	1.1	1.0	1.0	1.0
2/120 x 35	1.8	1.6	1.5	1.4	1.4	1.7	1.5	1.5	1.4	1.3	1.6	1.5	1.4	1.3	1.3
2/140 x 35	2.1	1.9	1.8	1.7	1.6	1.9	1.8	1.7	1.6	1.5	1.8	1.7	1.6	1.5	1.5
2/140 x 45	2.3	2.1	1.9	1.8	1.7	2.1	2.0	1.8	1.7	1.7	2.0	1.9	1.8	1.7	1.6
2/170 x 35	2.6	2.3	2.2	2.0	1.9	2.4	2.2	2.1	1.9	1.9	2.2	2.1	2.0	1.9	1.8
2/190 x 35	2.9	2.6	2.4	2.3	2.2	2.6	2.4	2.3	2.2	2.1	2.5	2.3	2.2	2.1	2.0
2/240 x 35	3.6	3.3	3.0	2.9	2.7	3.3	3.1	2.9	2.7	2.6	3.1	2.9	2.8	2.6	2.5
2/290 x 45	4.4	4.1	3.9	3.7	3.6	4.1	3.9	3.7	3.6	3.4	3.9	3.8	3.6	3.4	3.3
Maximum continuous span (m)															
2/90 x 35	1.8	1.6	1.5	1.4	1.3	1.7	1.5	1.4	1.4	1.3	1.5	1.4	1.4	1.3	1.3
2/120 x 35	2.4	2.2	2.0	1.9	1.8	2.2	2.0	1.9	1.8	1.7	2.1	1.9	1.8	1.7	1.7
2/140 x 35	2.8	2.5	2.3	2.2	2.1	2.6	2.4	2.2	2.1	2.0	2.4	2.2	2.1	2.0	1.9
2/140 x 45	3.0	2.7	2.5	2.4	2.3	2.8	2.6	2.4	2.3	2.2	2.6	2.4	2.3	2.2	2.1
2/170 x 35	3.4	3.1	2.8	2.7	2.5	3.1	2.9	2.7	2.6	2.4	2.9	2.7	2.6	2.5	2.4
2/190 x 35	3.7	3.4	3.2	3.0	2.8	3.5	3.2	3.0	2.9	2.7	3.2	3.0	2.9	2.7	2.6
2/240 x 35	4.4	4.1	3.9	3.7	3.6	4.2	3.9	3.7	3.6	3.4	4.0	3.8	3.6	3.4	3.3
2/290 x 45	5.4	5.0	4.8	4.5	4.4	5.1	4.8	4.6	4.4	4.3	4.8	4.6	4.4	4.3	4.2

1 Sections with depth 200mm or greater must be restrained against rollover at supports.
2 Bearing length to be not less than 45mm at end supports or 90mm at intermediate supports for continuous span.

BEARERS

SUPPORTING TWO STOREY LOAD BEARING WALLS — WIND CLASSIFICATION N1, N2, N3

Sheet Roof and Ceiling												
Ground Floor Load Width 'FLW' (m)												
e-beam+ [F17] LVL Section D X B (mm)	1.5						3.0					
	First Floor Load Width 'FLW' (m)											
	1.5			3.0			1.5			3.0		
	Roof Load Width 'FLW' (m)											
	2.4	4.5	6.6	2.4	4.5	6.6	2.4	4.5	6.6	2.4	4.5	6.6
Maximum single span (m)												
2/90 x 35	1.2	1.1	1.1	1.1	1.0	1.0	1.1	1.0	1.0	1.0	1.0	0.9
2/90 x 45	1.3	1.2	1.2	1.2	1.1	1.1	1.2	1.1	1.1	1.1	1.0	1.0
2/120 x 35	1.6	1.5	1.4	1.4	1.4	1.3	1.4	1.4	1.3	1.3	1.3	1.2
2/120 x 45	1.7	1.6	1.5	1.6	1.5	1.4	1.6	1.5	1.4	1.4	1.4	1.4
2/140 x 35	1.8	1.7	1.7	1.7	1.6	1.5	1.7	1.6	1.5	1.6	1.5	1.5
2/140 x 45	2.0	1.9	1.8	1.8	1.7	1.7	1.8	1.7	1.7	1.7	1.6	1.6
2/170 x 35	2.2	2.1	2.0	2.0	1.9	1.9	2.0	1.9	1.9	1.9	1.8	1.8
2/190 x 35	2.5	2.3	2.2	2.3	2.2	2.1	2.3	2.2	2.1	2.1	2.0	2.0
2/190 x 45	2.7	2.5	2.4	2.5	2.4	2.3	2.5	2.4	2.3	2.3	2.2	2.1
2/240 x 35	3.1	3.0	2.8	2.8	2.7	2.6	2.8	2.7	2.6	2.7	2.6	2.5
2/240 x 45	3.4	3.2	3.1	3.1	3.0	2.9	3.1	3.0	2.9	2.9	2.8	2.7
2/290 x 45	4.0	3.8	3.7	3.7	3.6	3.4	3.7	3.6	3.4	3.5	3.4	3.3
Maximum continuous span (m)												
2/90 x 35	1.6	1.5	1.4	1.4	1.4	1.3	1.4	1.4	1.3	1.3	1.3	1.3
2/90 x 45	1.7	1.6	1.6	1.6	1.5	1.4	1.6	1.5	1.4	1.5	1.4	1.4
2/120 x 35	2.1	2.0	1.9	1.9	1.8	1.8	1.9	1.8	1.8	1.8	1.7	1.7
2/120 x 45	2.3	2.2	2.1	2.1	2.0	1.9	2.1	2.0	1.9	1.9	1.9	1.8
2/140 x 35	2.5	2.3	2.2	2.2	2.1	2.1	2.2	2.1	2.1	2.0	2.0	1.9
2/140 x 45	2.7	2.5	2.4	2.4	2.3	2.2	2.4	2.3	2.2	2.3	2.2	2.1
2/170 x 35	3.0	2.8	2.7	2.7	2.6	2.5	2.7	2.6	2.5	2.4	2.4	2.3
2/190 x 35	3.3	3.1	3.0	3.0	2.9	2.8	3.0	2.8	2.8	2.7	2.6	2.5
2/190 x 45	3.6	3.4	3.3	3.3	3.2	3.0	3.3	3.2	3.0	3.1	3.0	2.9
2/240 x 35	4.0	3.9	3.7	3.8	3.6	3.5	3.7	3.5	3.4	3.4	3.2	3.2
2/240 x 45	4.3	4.1	4.0	4.0	3.9	3.8	4.0	3.9	3.8	3.8	3.7	3.6
2/290 x 45	4.9	4.7	4.6	4.6	4.5	4.3	4.6	4.5	4.3	4.4	4.3	4.2

1 Sections with depth more than three times overall breadth must be restrained against rollover at supports.
2 Bearing length to be not less than 45mm at end supports or 90mm at intermediate supports for continuous span.

BEARERS

SUPPORTING TWO STOREY LOAD BEARING WALLS — WIND CLASSIFICATION N1, N2, N3

Tile Roof and Ceiling												
Ground Floor Load Width 'FLW' (m)												
e-beam+ [F17] LVL Section D X B (mm)	1.5						3.0					
	First Floor Load Width 'FLW' (m)											
	1.5			3.0			1.5			3.0		
	Roof Load Width 'FLW' (m)											
	2.4	4.5	6.6	2.4	4.5	6.6	2.4	4.5	6.6	2.4	4.5	6.6
Maximum single span (m)												
2/90 x 35	1.1	1.0	0.9	1.0	0.9	0.9	1.0	0.9	0.9	1.0	0.9	0.8
2/90 x 45	1.2	1.1	1.0	1.1	1.0	1.0	1.1	1.0	1.0	1.0	1.0	0.9
2/120 x 35	1.5	1.3	1.2	1.4	1.3	1.2	1.4	1.3	1.2	1.3	1.2	1.1
2/120 x 45	1.6	1.4	1.3	1.5	1.4	1.3	1.5	1.4	1.3	1.4	1.3	1.2
2/140 x 35	1.7	1.6	1.4	1.6	1.5	1.4	1.6	1.5	1.4	1.5	1.4	1.3
2/140 x 45	1.8	1.7	1.6	1.7	1.6	1.5	1.7	1.6	1.5	1.6	1.5	1.4
2/170 x 35	2.1	1.9	1.7	1.9	1.8	1.7	1.9	1.8	1.7	1.8	1.7	1.6
2/190 x 35	2.3	2.1	2.0	2.1	2.0	1.9	2.2	2.0	1.9	2.0	1.9	1.8
2/190 x 45	2.5	2.3	2.1	2.3	2.1	2.0	2.3	2.2	2.0	2.2	2.1	1.9
2/240 x 35	2.9	2.6	2.5	2.7	2.5	2.3	2.7	2.5	2.4	2.5	2.4	2.3
2/240 x 45	3.2	2.9	2.7	2.9	2.7	2.5	2.9	2.7	2.6	2.8	2.6	2.5
2/290 x 45	3.8	3.5	3.2	3.5	3.3	3.1	3.6	3.3	3.1	3.3	3.1	3.0
Maximum continuous span (m)												
2/90 x 35	1.5	1.3	1.2	1.4	1.3	1.2	1.4	1.3	1.2	1.3	1.2	1.1
2/90 x 45	1.6	1.4	1.3	1.5	1.4	1.3	1.5	1.4	1.3	1.4	1.3	1.2
2/120 x 35	2.0	1.8	1.7	1.8	1.7	1.6	1.8	1.7	1.6	1.7	1.6	1.5
2/120 x 45	2.1	1.9	1.8	2.0	1.8	1.7	2.0	1.8	1.7	1.8	1.7	1.6
2/140 x 35	2.3	2.1	1.9	2.1	2.0	1.8	2.1	2.0	1.8	1.9	1.8	1.7
2/140 x 45	2.5	2.3	2.1	2.3	2.1	2.0	2.3	2.1	2.0	2.2	2.0	1.9
2/170 x 35	2.8	2.5	2.3	2.6	2.4	2.2	2.5	2.4	2.2	2.3	2.2	2.0
2/190 x 35	3.1	2.8	2.6	2.9	2.6	2.4	2.8	2.6	2.4	2.6	2.4	2.3
2/190 x 45	3.3	3.0	2.8	3.1	2.9	2.7	3.1	2.9	2.7	2.9	2.7	2.6
2/240 x 35	3.8	3.5	3.2	3.6	3.3	3.0	3.5	3.2	3.0	3.2	3.0	2.8
2/240 x 45	4.1	3.8	3.6	3.8	3.6	3.4	3.8	3.6	3.4	3.6	3.4	3.2
2/290 x 45	4.7	4.4	4.1	4.4	4.2	4.0	4.4	4.2	4.0	4.2	4.0	3.8

1 Sections with depth more than three times overall breadth must be restrained against rollover at supports.
2 Bearing length to be not less than 45mm at end supports or 90mm at intermediate supports for continuous span.

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/m^3 (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.

wesbeam
building better wood

ABN 89 004 268 017
WESB0480 February 2021

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