



e-bearer+joist 
engineered LVL by wesbeam



Wesbeam e-bearer+joist is an engineered solution for traditional subfloor framing.

Purpose engineered e-bearer+joist has greater strength and uniformity than sawn timber, and is comparatively lighter, making it safer and easier to handle. e-bearer+joist is termite treated providing a robust barrier to termite attack in above ground interior applications.

e-bearer+joist specification

e-bearer+joist is manufactured from structural laminated veneer lumber in accordance with AS/NZS 4357 e-bearer+joist is termite treated to H2S

Features

- Engineered for straightness and consistent performance
- Termite treated and guaranteed for 25 years against termite attack when used South of the Tropic of Capricorn
- Longer lengths to minimise wastage
- High strength yet lighter and safer to handle
- Every piece of e-bearer+joist is coated with Wesbeam e-seal to provide short-term water repellency and enhance dimensional stability when exposed to rain
- Arrised edges for safer and more comfortable handling
- Made from plantation timber veneers
- Available ex-stock
- Manufactured in Australia by a wholly owned Australian Company
- Wesbeam has full Chain of Custody aligned with the Australian Forestry Standard (AFS) – AS4707 and Program for the Endorsement of Forest Certification (www.pefc.org)
- Fully supported by Wesbeam e-house software



MII No. 613

e-bearer + joist Span Tables

Floor Joists

Supporting Floor Loads Only

Joist Section Size D x B (mm)	Floor Joist Spacing (mm)					
	300		450		600	
	Span	Cant.	Span	Cant.	Span	Cant.
90 x 45 Maximum Single Span and Cantilever (m)	2.1	0.6	1.8	0.5	1.6	0.5
100 x 42 Maximum Single Span and Cantilever (m)	2.1	0.6	1.8	0.5	1.7	0.5
90 x 45 Maximum Continuous Span and Cantilever (m)	2.7	0.6	2.1	0.5	1.9	0.5
100 x 42 Maximum Continuous Span and Cantilever (m)	2.7	0.6	2.1	0.5	2.0	0.5

1. Bearing length for joists to be not less than 35mm at end supports or 70mm at interior supports for continuous spans

Bearers

Supporting Floor Loads Only

Bearer Section Size D x B (mm)	Floor Load Width 'FLW' (m)					
	1.2	1.8	2.4	3.6	4.8	6.0
90 x 63 Maximum Single Span (m)	1.6	1.5	1.4	1.2	1.1	1.0
100 x 56 Maximum Single Span (m)	1.8	1.6	1.5	1.3	1.2	1.1
90 x 63 Maximum Continuous Span (m)	2.1	1.9	1.7	1.5	1.3	1.2
100 x 56 Maximum Continuous Span (m)	2.3	2.0	1.9	1.6	1.4	1.2

Supporting Single or Upper Storey Load Bearing Walls — Sheet Roof and Ceiling

N3 Wind Classification

Bearer Section Size 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	1.8	3.0	4.2	5.4	1.8	3.0	4.2	5.4
90 x 63 Maximum Single Span (m)	1.5	1.4	1.3	1.2	1.3	1.3	1.2	1.2	1.2	1.2	1.1	1.1
100 x 56 Maximum Single Span (m)	1.5	1.4	1.3	1.2	1.3	1.3	1.2	1.2	1.2	1.2	1.1	1.1
90 x 63 Maximum Continuous Span (m)	2.0	1.9	1.8	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.5	1.5
100 x 56 Maximum Continuous Span (m)	2.0	1.9	1.8	1.7	1.8	1.7	1.6	1.6	1.6	1.6	1.5	1.5

Supporting Single or Upper Storey Load Bearing Walls — Tile Roof and Ceiling

N3 Wind Classification

Bearer Section Size D x B (mm)	Tile 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	1.8	3.0	4.2	5.4	1.8	3.0	4.2	5.4
90 x 63 Maximum Single Span (m)	1.3	1.2	1.1	1.1	1.2	1.1	1.0	1.0	1.2	1.1	1.0	1.0
100 x 56 Maximum Single Span (m)	1.3	1.2	1.1	1.1	1.2	1.1	1.1	1.0	1.2	1.1	1.0	1.0
90 x 63 Maximum Continuous Span (m)	1.8	1.6	1.5	1.4	1.7	1.5	1.4	1.4	1.5	1.4	1.3	1.3
100 x 56 Maximum Continuous Span (m)	1.8	1.6	1.5	1.4	1.7	1.5	1.4	1.4	1.5	1.4	1.4	1.3

2. Bearing length for bearers to be not less than 45mm at end supports or 90mm at interior supports for continuous spans

specification

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 despatch)

Dimensional Tolerances

Available on request

Straightness

Available on request

Density

650 kg/m³ (approximately)

Adhesive

Phenolic – AS 2754.1

Bond

Type A – AS/NZS 2098.2

Joint Group

JD4 – for nails, bolts and screws

Finish

Unsanded faces, sawn edges and arrised edges.

Branding

Each piece of Wesbeam LVL 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

Plantation timber certified to AS4707-2006

Condition

H2S treated



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