



## e-frame [floor]® engineered LVL floor frame

Wesbeam e-frame [floor] is an engineered solution for traditional subfloor framing over a 1.8m grid using;

- 450mm or 600mm centre line spacing of joists
- 1.8m centre line spacing of bearers on piers
- Piers spaced at 1.8m (1.2m to external perimeter with tile roof over)

e-frame [floor] is e2S termite treated providing a robust barrier to termite attack in above ground applications.

### Features

- Made by the only manufacturer of LVL in Australia
- Equal or superior performance to traditional alternatives
- Available ex-stock
- Termite treated
- Arrised edges for safer and more comfortable handling
- Comes with Wesbeam's full Chain of Custody certification aligned with the Australian Forestry Standard (AFS) - AS4707

### Design Criteria

- The design loads and criteria used to generate the e-frame [floor] span tables meet or exceed the requirements of AS1720.3:2016



## E-FRAME [FLOOR] 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.
100 x 45 Maximum Single Span and Cantilever (m)	2.30	0.6	1.85	0.5	1.80	0.5
100 x 45 Maximum Continuous Span and Cantilever (m)	3.00	0.6	2.20	0.5	2.10	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
100 x 63 Maximum Single Span (m)	1.95	1.70	1.55	1.35	1.20	1.10
100 x 63 Maximum Continuous Span (m)	2.45	2.15	1.95	1.65	1.40	1.25

### Sheet Roof & Ceiling (Roof Mass: 40kg/m<sup>2</sup>)

Supporting Single or Upper  
Storey Load Bearing Walls

(N3 Wind Classification)

Bearer Section Size D x B (mm)	Sheet Roof & 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
100 x 63 Maximum Single Span (m)	1.55	1.45	1.40	1.30	1.40	1.30	1.25	1.25	1.25	1.25	1.20	1.15
100 x 63 Maximum Continuous Span (m)	2.10	1.95	1.85	1.75	1.85	1.80	1.70	1.65	1.70	1.65	1.60	1.55

### Tile Roof & Ceiling (Roof Mass: 90kg/m<sup>2</sup>)

Supporting Single or Upper  
Storey Load Bearing Walls

(N3 Wind Classification)

Bearer Section Size D x B (mm)	Tile Roof & 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
100 x 63 Maximum Single Span (m)	1.40	1.25	1.15	1.10	1.30	1.20	1.10	1.05	1.20	1.10	1.05	1.00
100 x 63 Maximum Continuous Span (m)	1.85	1.70	1.55	1.45	1.70	1.60	1.50	1.40	1.60	1.50	1.40	1.35

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

## SPECIFICATIONS

### Manufacture

Manufactured in accordance with AS/NZS 4357

### Veneer

Thickness	Constant through the product thickness
Species	Softwood and hardwood
Joists	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/m<sup>3</sup> (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 arised edges

### Branding

Each piece of Wesbeam LVL 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 AS 4707

### Treatment Condition

e2S (CodeMark Certified for Termite & Borers resistance for use in the geographical locations in the South of the Tropic of Capricorn)



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