



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
- 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; Timber structures - Part 3: Design criteria for timber-framed residential buildings.



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/m²)

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/m²)

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/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 and sawn 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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