

DINDASSF 12

Laminated Veneer Lumber

DINDAS
Australia



Image for illustrative purposes only

Choose DINDASSF 12 for superior subfloor structural solutions. This versatile LVL product surpasses solid timber alternatives in both strength and durability. The exceptional quality of DINDASSF 12 as bearers and joists provides the perfect solution for subfloors. It is a cost-effective alternative to higher-rated LVLs or expensive F17 timber for subfloors.



Red coating for easy identification

- Has a red coating for easier identification on site.
- It is manufactured with Arrised edges for safer and easier handling.



Great alternative to higher-rated options

- Offers a great alternative to higher-rated LVLs or F17 timbers for subfloors.
- Individually labelled and QR code marked for direct product information access.



Dimensional Uniform Stability (± 1 mm)

- Features a solid construction that is both sturdy and lightweight, ensuring maximum stability and durability.
- It is free of traditional timber defects like gum pockets and strength-reducing knots.



High-Performance Engineered Wood Product

- Each piece is highly consistent in the way it performs under load.
- Manufactured with type 'A' (marine) bond, renowned for its structural strength and long-lasting durability.



Sustainable Sourcing

- As a Carbon Warrior partner, we only work with suppliers with verified Wood Source Certifications for responsible and sustainable timber.
- Chain of Custody certification compliant for well-managed and sustainable forests.

DINDASSF 12 Product Specs



APPLICATIONS: Internal (inside the building envelope). DINDASSF 12 is specifically manufactured and designed bearers and floor joists tailored to a more traditional construction pattern. *Please note this product is inappropriate for open decking applications.*

MAXIMUM LENGTH: Available up to 12 metre lengths

DEPTH OPTIONS: 100 mm

WIDTH OPTIONS: 45 and 63 mm

TIMBER GRADING: LVL 12

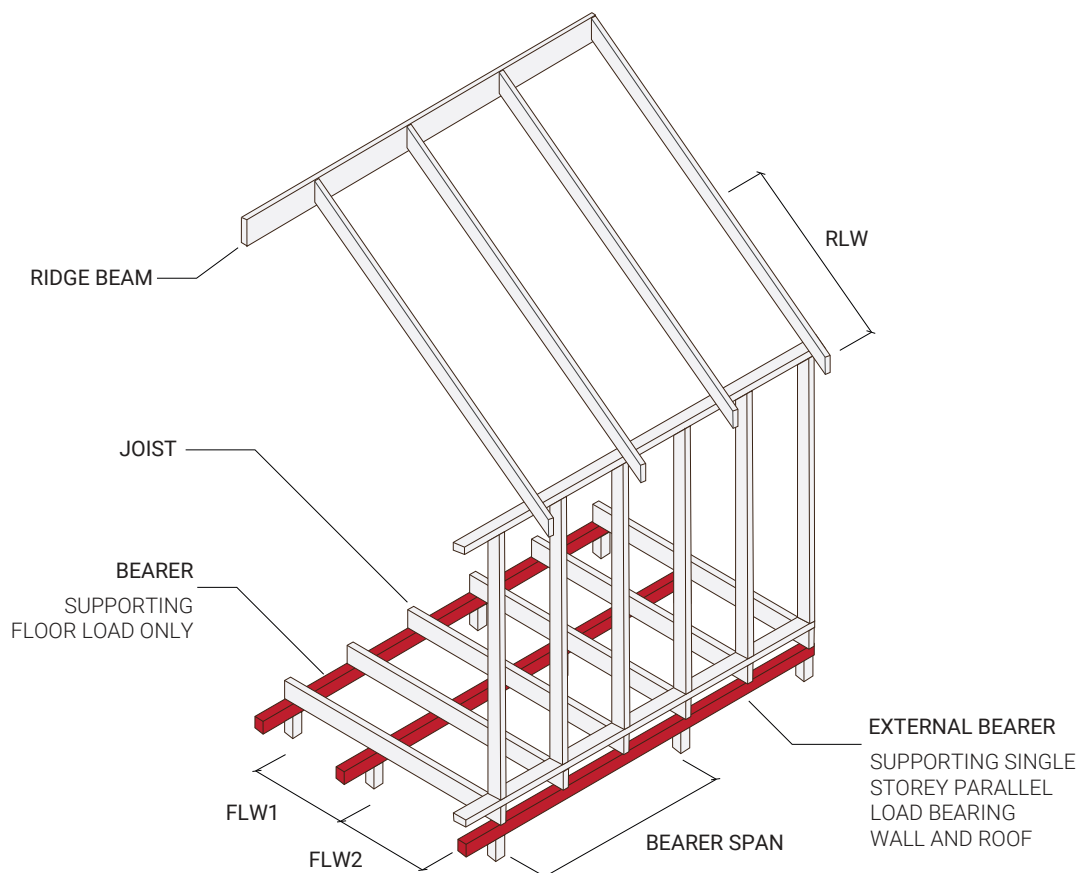
TREATMENTS: Available as H2S

MANUFACTURE: AS/NZS 4357.2 Series of Standards

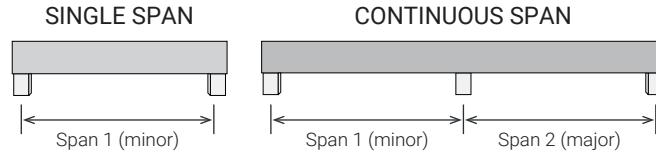
CERTIFICATIONS: BSI, APA

DINDASSF 12 Floor Bearers carrying external wall and roof loads

(100x45 & 100x63)



DINDASSF 12 Joists supporting Floor Loads Only



Joist Spacing (mm)	300	450	600	300	450	600
Member size (DxB) mm	Maximum recommended Single span (mm)			Maximum recommended Continuous span (mm)		
100x45	2250	1800	1700	3000	2100	2000
100x63	2700	2050	1950	3350	2400	2300
2/100x45	3200	2350	2250	3450	2800	2650

Load Criteria: Floor Dead Load: 0.4 kN/m², Floor Live Load: 1.5 kPa (uniform) + 1.8kN (concentrated), Maximum dynamic load (1kN) deflection: 2mm, Member importance: Category 1, Wind Classification: N3, Minimum 40mm end bearing, Minimum 63mm intermediate bearing.
To be considered 'continuous', a member must span at least two adjacent spans. The first span should be greater than or equal to 0.75

times the second span.

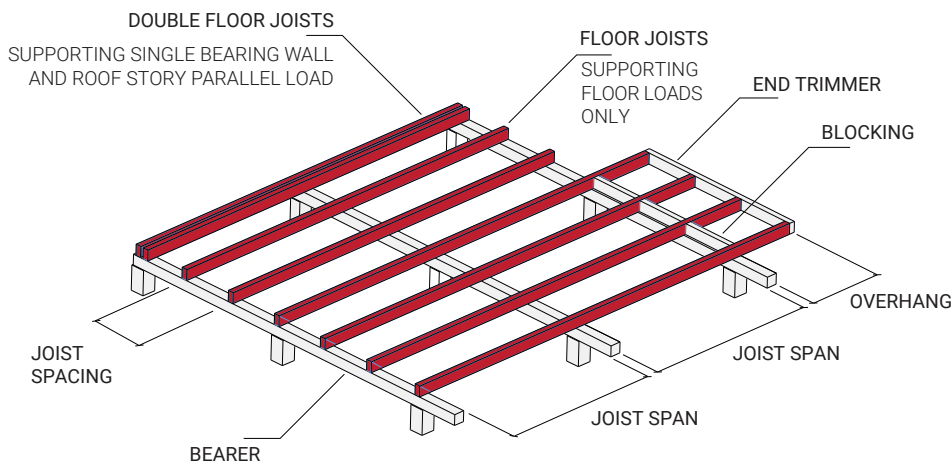
The major span is taken from the continuous span table. For example, if the second span is 6.0 meters, then the first span should be greater than or equal to 4.5 meters. If the span is less than 6.0 meters, then each span should be considered 'single'.

DINDASSF 12 Floor Joist supporting single storey or upper load bearing walls - wind classification N1-N3

Floor Load width (mm)		300			450			600		
Roof Load width (mm)		800	1800	3000	800	1800	3000	800	1800	3000
Member size (DxB) mm	Roof mass kg/m ²	Maximum recommended Single span (mm)								
2/100x45	40	2050	1800	1650	2000	1750	1600	1900	1750	1600
2/100x45	90	1850	1550	1400	1800	1550	1350	1750	1500	1300
		Maximum recommended Continuous span (mm)								
2/100x45	40	2800	2500	2250	2700	2400	2200	2600	2350	2150
2/100x45	90	2550	2150	1900	2450	2100	1850	2400	2050	1850

Load Criteria: Floor Dead Load: 0.4 kN/m², Floor Live Load: 1.5 kPa (uniform) + 1.8kN (concentrated), Maximum dynamic load (1kN) deflection: 2mm, Member importance: Category 2, Wind Classification: N3, Roof Pitch: 25°, Supported Wall Height: 2450mm (max), Wall mass: 31 kg/m², Minimum 30mm end bearing, Minimum 45mm end bearing.

Flooring = Particle Board, No underfloor ceiling load applied, Floor Live Load = Domestic Std (1.5,1.8), Standard AS1720.3 Dynamic floor 1.0kN static load. Dindas Australia recommends that all flooring be glued with a quality adhesive. Sheet flooring fixing should be screw-fixed with a quality flooring screw to enhance performance and minimise squeak points.



DINDASSF 12 Floor Joists

(100x45)

DINDASSF 12 Bearers supporting Joist Loads Only

Floor Load width (mm)	1200	1800	2400	3600	4800	6000
Member size (DxB) mm	Maximum recommended Single span (mm)					
100x63	1800	1600	1450	1250	1100	1050
2/100x45	2050	1800	1600	1400	1250	1200
Member size (DxB) mm	Maximum recommended Continuous span (mm)					
100x63	2000	1850	1650	1450	1250	1000
2/100x45	2200	2100	1900	1650	1450	1350

Load Criteria: Floor Dead Load: 0.4 kN/m², Floor Live Load: 1.5 kPa (uniform) + 1.8kN (concentrated), Maximum dynamic load (1kN) deflection: 2mm, Member importance: Category 2, Wind Classification:

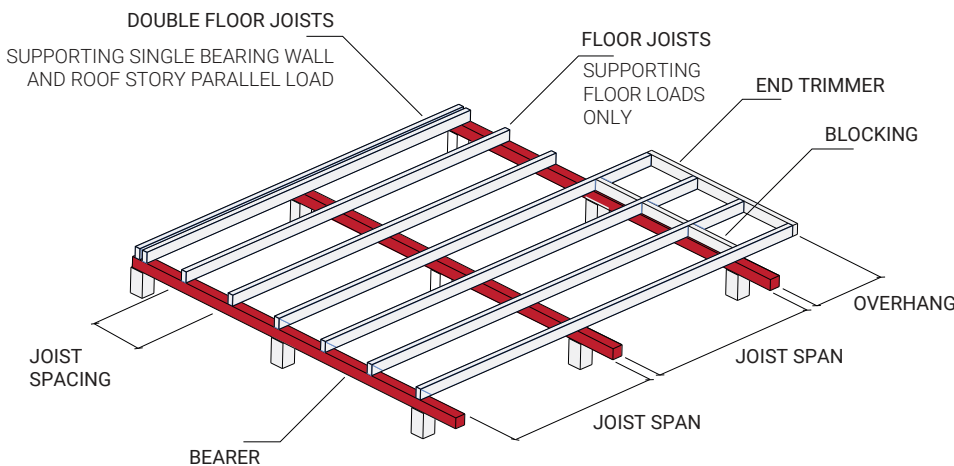
N3, Floor Joist Spacing: 600mm, Minimum 40mm end bearing, Minimum 63mm intermediate bearing.

DINDASSF 12 Floor Bearers supporting single or upper load bearing walls - wind classification N1-N3

Floor Load width (mm)		900			1200			1500		
Roof Load width (mm)		1500	3000	5000	1500	3000	5000	1500	3000	5000
Member size (DxB) mm	Roof mass kg/m ²	Maximum recommended Single span (mm)								
100x63	40	1500	1350	1200	1400	1300	1200	1350	1250	1150
100x63	90	1350	1150	1050	1300	1150	1000	1250	1100	1000
2/100x45	40	1700	1500	1350	1600	1450	1350	1550	1400	1300
2/100x45	90	1500	1300	1150	1450	1300	1150	1400	1250	1100
Member size (DxB) mm	Roof mass kg/m ²	Maximum recommended Continuous span (mm)								
100x63	40	2000	1850	1650	1950	1750	1600	1850	1700	1550
100x63	90	1850	1600	1400	1800	1550	1400	1700	1500	1350
2/100x45	40	2300	2050	1850	2200	2000	1800	2100	1950	1750
2/100x45	90	2050	1800	1600	2000	1750	1550	1950	1700	1550

Load Criteria: Floor Dead Load: 0.4 kN/m², Floor Live Load: 1.5 kPa (uniform) + 1.8kN (concentrated), Maximum dynamic load (1kN) deflection: 2mm, Member importance: Category 2, Wind Classification: N3, Roof Pitch: 25°, Supported Wall Height: 2450mm (max), Wall mass: 31 kg/m², Minimum 45mm end bearing, Minimum 63mm intermediate bearing, Floor Joist Spacing: 600mm.

Flooring = Particle Board, No underfloor ceiling load applied, Floor Live Load = Domestic Std (1.5,1.8), Standard AS1720.3 Dynamic floor 1.0kN static load. Dindas Australia recommends that all flooring be glued with a quality adhesive. Sheet flooring fixing should be screw-fixed with a quality flooring screw to enhance performance and minimise squeak points.



**DINDASSF 12
FLOOR BEARERS**
(100x45 & 100x63)

DINDASSF 12 Sizes

Depth (mm)	Thickness (mm)	Pieces per Pack	Weight
100	45	77	2.88 kg/lm
100	63	55	4.03 kg/lm

DINDASSF 12 Characteristic Values


Characteristic Values for Design Limit States		
f'_b	Bending strength ¹	46MPa
f'_t	Tension strength - parallel to the grain ²	20MPa
f'_{tp}	Tension strength - perpendicular to the grain	0.5MPa
f'_c	Compression strength - parallel to the grain	30MPa
f'_{cp}	Compression strength - perpendicular to the grain	-
f'_p	Bearing strength - perpendicular to the grain	10MPa
f'_l	Bearing strength - parallel to the grain	30MPa
f'_s	Shear strength	4.5MPa
f'_{sj}	Shear at joints	4.5MPa
MOE	Modulus of Elasticity	12,000MPa
MOR	Modulus of Rigidity	660MPa
ρ	Density (approximate)	590 - 600kg/m ³
JD	Joint Group for connector design (nails, screws & bolts)	JD4
SD	Strength Group	SD5

- For beams bigger than 95mm in depth, the characteristic values are obtained by multiplying the value in this Table by $(95/d)0.167$, where "d" is the depth of the section.
- For tension members with a cross-sectional dimension greater than 150mm, the characteristic values are obtained by multiplying the value in this Table by $(150/d)0.167$, where "d" is the width or largest dimension of the cross-section.

- Tapered and notched beam is allowable, although it requires certifications and/or design checks by an engineer.
- Notches, cuts and holes in beams, bearers, joists and rafter members may have penetration holes and notches performed in accordance with AS1684.2 Clause 4.1.6 & Figure 4.1. The cutting, notching & drilling of components within structures that do NOT meet these criteria is outside the scope of this document and should be referred to an experienced timber engineer for design checks & certification.

For more information visit dindas.com.au

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