



PRODUCT CATALOGUE

AUSTRALIAN MADE FOR AN AUSTRALIAN LIFESTYLE

PRODUCT DETAILS

Delta Panels have a range of laminated hardwood post & beams that are specifically designed to suit our DeltaTrim™, DeltaOrb™ & DeltaCorro/Corro™ range of insulated roofing panels.

PRODUCT FEATURES

- High quality timber products created by end-jointing small pieces of Merbau/Kwila
- Available in lengths up to 8 metres, with predictable strength
- Thicknesses available in 35mm, 42mm, 65mm & 80mm
- Beam Depths available in 70mm, 90mm, 115mm, 140mm, 165mm, 190mm, 240mm & 290mm
- Engineered for wind zones N3 and C2
- Can be used in externally exposed environments
- Termite resistant



Version Date: 08.04.2020

TIMBER SPECIFICATIONS

- Timber: Merbau/ Kwila Intsia bijuga
- Moisture: 12-16%
- Strength: GL17
- Adhesive: Phenol Resorcinol Formaldehyde
- Service Class: Suitable for Class 3 environments.
- Appearance Grade: A
- Durability: Class 1. Life expectancy 40 years +

HANDLING & MAINTENANCE

- **Keep dry prior to installation**
 - To ensure that the exterior surface does not colour spoil keep the timber dry at all times. If resin-bleed does occur this must be sanded prior to the application of the final coating.
- **Careful when handling**
 - The post and beams are a laminated product and no excessive force should be applied during handling and installation.
- **Keep the surface well coated**
 - Two (2) coats of a good quality decking oil should be applied to all surfaces to protect against UV light and any moisture egress. Failure to apply the decking oil can result in the product splitting and swelling. An annual application to ensure this protection is maintained.
- **Above-Ground use only and unsuitable for non-draining areas**
 - Water saturation will cause the product to swell excessively.
- **Drilling of Holes**
 - Drilled holes should be positioned in the middle third of the post or beam and should not exceed 25mm in diameter.
- **Repairs to cracks along glue-lines**
 - Small glue-line cracks may occur due to changes in humidity, these are not to be confused with delamination which will open up glue-lines to a much greater effect. All small cracks can be repaired with an epoxy glue.
- **General Repairs**
 - This laminated Kwila product is less prone to the natural feature of cracking which occurs in all timber products. Cracks can occur in area which are more exposed to the natural elements of rain and sun, it is recommended that these surface areas are treated with extra coatings of decking oil.

BEAM SPECIFICATIONS

Standard Sizes

- Lengths: can be made in any length up to 8m.
- Thicknesses: 35mm, 42mm, 65mm, 80mm
- Depth: 70mm 90mm, 115mm, 140mm, 165mm, 190mm, 240mm, 290mm

Verandah Beams - Light Sheet Roofing N1/2

Supporting Light Sheet Roofing Only

Size (mm)	Single Span - Roof Load Width (m)					
	0.6	1.2	1.8	2.4	3.0	3.6
90x42	2.7	2.7	2.6	2.3	2.1	1.9
115x42	3.6	3.6	3.3	2.9	2.7	2.5
140x42	4.4	4.4	4.0	3.6	3.3	3.0
165x41	5.1	5.0	4.5	4.1	3.8	3.5
190x42	5.9	5.5	5.0	4.6	4.3	4.0
240x42	7.3	6.4	5.9	5.4	5.1	4.8
265x42	7.7	6.9	6.3	5.8	5.5	5.2
290x42	8.2	7.3	6.7	6.2	5.8	5.5
140x65	5.0	4.8	4.4	4.0	3.7	3.4
190x65	6.6	5.9	5.4	5.0	4.7	4.5
240x65	7.6	6.9	6.4	5.9	5.6	5.3
290x65	8.5	7.8	7.2	6.8	6.4	6.1
140x80	5.4	5.0	4.6	4.2	4.0	3.7
190x80	6.8	6.1	5.6	5.2	4.9	4.7
240x80	7.8	7.1	6.6	6.2	5.8	5.5
290x80	8.7	8.0	7.5	7.0	6.6	6.3

Verandah Beams - Light Sheet Roofing C1/2

Supporting Light Sheet Roofing Only

Size (mm)	Single Span - Roof Load Width (m)						
	0.6	1.2	1.8	2.4	3.6	4.8	6.0
90x42	2.7	2.3	1.9	1.6	1.3	1.2	1.0
115x42	3.6	2.9	2.4	2.1	1.7	1.5	1.3
140x42	4.4	3.6	3.0	2.6	2.1	1.8	1.6
165x41	5.1	4.2	3.5	3.1	2.5	2.2	1.9
190x42	5.9	4.9	4.1	3.5	2.9	2.5	2.2
240x42	7.3	6.0	4.9	4.2	3.5	3.0	2.7
265x42	7.7	6.4	5.2	4.5	3.7	3.2	2.9
290x42	8.2	6.7	5.5	4.7	3.9	3.4	3.0
140x65	5.0	4.1	3.6	3.2	2.6	2.3	2.0
190x65	6.6	5.6	4.9	4.4	3.6	3.1	2.8
240x65	7.6	6.9	6.2	5.6	4.6	4.0	3.5
290x65	8.5	7.8	7.2	6.8	5.5	4.8	4.3
140x80	5.4	4.4	3.9	3.5	2.9	2.5	2.3
190x80	6.8	6.1	5.3	4.8	4.0	3.5	3.1
240x80	7.8	7.1	6.6	6.1	5.1	4.4	3.9
290x80	8.7	8.0	7.5	7.0	6.1	5.3	4.8

Supporting Light Sheet Roofing Only

Size (mm)	Continuous Span - Roof Load Width (m)					
	0.6	1.2	1.8	2.4	3.0	3.6
90x42	3.1	3.1	3.0	2.6	2.4	2.2
115x42	4.0	4.0	3.9	3.4	3.0	2.8
140x42	4.9	4.9	4.8	4.1	3.7	3.4
165x41	5.8	5.8	5.7	4.9	4.4	4.0
190x42	6.6	6.6	6.3	5.7	5.1	4.7
240x42	8.4	8.1	7.4	6.8	6.2	5.7
265x42	9.3	8.7	7.9	7.3	6.8	6.2
290x42	10.1	9.2	8.4	7.8	7.3	6.7
140x65	5.6	5.6	5.5	5.1	4.7	4.3
190x65	7.7	7.5	6.8	6.3	5.9	5.6
240x65	9.6	8.7	8.8	7.5	7.0	6.7
290x65	10.7	9.8	9.1	8.5	8.0	7.6
140x80	6.1	6.1	5.7	5.3	5.0	4.7
190x80	8.2	7.7	7.1	6.6	6.2	5.9
240x80	9.8	8.9	8.3	7.8	7.3	7.0
290x80	10.9	10.1	9.4	8.8	8.4	8.0

Supporting Light Sheet Roofing Only

Size (mm)	Continuous Span - Roof Load Width (m)						
	0.6	1.2	1.8	2.4	3.6	4.8	6.0
90x42	3.1	2.3	1.9	1.6	1.3	1.2	1.0
115x42	4.0	3.0	2.4	2.1	1.7	1.5	1.3
140x42	4.9	3.7	3.0	2.6	2.1	1.8	1.6
165x41	5.8	4.3	3.5	3.1	2.5	2.2	1.9
190x42	6.6	5.0	4.1	3.5	2.9	2.5	2.2
240x42	8.4	6.1	5.0	4.3	3.5	3.1	2.8
265x42	9.3	6.7	5.4	4.7	3.8	3.3	3.0
290x42	10.1	7.2	5.9	5.1	4.2	3.6	3.2
140x65	5.6	4.6	3.7	3.2	2.6	2.3	2.0
190x65	7.7	6.3	5.1	4.4	3.6	3.1	2.8
240x65	9.6	8.0	6.5	5.6	4.6	4.0	3.5
290x65	10.7	9.7	7.8	6.8	5.5	4.8	4.3
140x80	6.1	5.1	4.2	3.6	2.9	2.5	2.3
190x80	8.2	7.0	5.7	4.9	4.0	3.5	3.1
240x80	9.8	8.9	7.2	6.2	5.1	4.4	3.9
290x80	10.9	10.1	8.7	7.5	6.1	5.3	4.8

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POST SPECIFICATIONS

Standard Sizes:

90x90, 100x100, 115x115, 140x140, 190x190, 240x240, 290x290

Special Sizes available:

Lengths: 2.4m - 6.0m in 0.3m increments.

Verandah Posts Sheet Roof N3/C2

Roof & Ceiling - Roof Load Area up to 3.0m²

Size (mm)	Floor Area Supported (m ²)						
	0.0	1.0	2.0	3.0	4.0	6.0	8.0
90x90	5.0	5.0	4.0	3.3	2.9	2.4	2.0
100x100	5.0	5.0	4.8	4.1	3.6	2.9	2.5
115x115	5.0	5.0	5.0	5.0	4.7	3.9	3.4
140x140	5.0	5.0	5.0	5.0	5.0	5.0	5.0

Roof & Ceiling - Roof Load Area up to 6.0m²

Size (mm)	Floor Area Supported (m ²)						
	0.0	1.0	2.0	3.0	4.0	6.0	8.0
90x90	5.0	4.9	3.9	3.2	2.8	2.3	2.0
100x100	5.0	5.0	4.8	4.0	3.5	2.9	2.5
115x115	5.0	5.0	5.0	5.0	4.7	3.9	3.4
140x140	5.0	5.0	5.0	5.0	5.0	5.0	5.0

Roof & Ceiling - Roof Load Area up to 9.0m²

Size (mm)	Floor Area Supported (m ²)						
	0.0	1.0	2.0	3.0	4.0	6.0	8.0
90x90	5.0	4.3	3.8	3.2	2.8	2.3	2.0
100x100	5.0	5.0	4.6	3.9	3.5	2.9	2.5
115x115	5.0	5.0	5.0	5.0	4.6	3.8	3.3
140x140	5.0	5.0	5.0	5.0	5.0	5.0	5.0

Loading Data:

Dead load of roof: Sheet roof+ ceiling, maximum 40 kg/m², Tiled roof + ceiling, maximum 90 kg/m² (Covers standard residential roof materials, for roof pitch maximum 35deg).

Wind Load taken as N3/C2 in accordance with AS 4055 Wind Loads for Housing.

ETH LAM GL beams are manufactured straight, without any camber built into the beams.

Deck joist design criteria in accordance with methods presented in AS1684.1-1999, and structural timber design in accordance with AS1720.1-2010.

Verandah Posts are designed for axial loads only, and do not take lateral loads, other than supporting standard handrails for the upper deck versions. Therefore these posts cannot be used to support any wall frames, or sheeting material that would impose a lateral load through wind pressure on the panels.

Notes:

1) Verandah posts to be supported in steel base supports with min. M12 bolts, and must not be in contact with the ground, as per standard post bracket supports in AS1684.

2) The height value shown is the distance between support and either verandah beam or deck bearers. For 2 level posts, supporting deck and roof, look up the larger of the 2 clear distances as the value from the tables.

3) For posts, lateral restraint is assumed to be achieved only from roof beams or floor beams.

4) Where there are conflicts in design between loading codes (AS/NZS1170 series), timber code (AS1720.1-2010) and AS1684.1-1999, the loading codes and timber codes take preference.

The above span table values have been designed in accordance with the following codes:

- AS1720.1-2010 Timber Design Code
- AS1170.0, .1, .2-2002 Loading Codes for Limit State design, Live Loads, and Wind Loads respectively.
- AS1684.1-1999 Design Criteria for Residential Timber Framing.

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* Post height values are in metres

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