



## Verandah Beam

### Light Sheet Roof - no ceiling - Dead Load 10kg/m<sup>2</sup>

Size & Grade	Single Span Verandah Beams - Span values in mm							
	Roof Load Width (mm)							
	900	1200	1500	2400	3000	4000	5000	6000
<b>140x35 F7</b>	3200	3200	2900	2400	2200	1900	1700	1600
<b>190x35 F7</b>	4300	4200	3900	3200	2900	2500	2300	2100
<b>140x45 F7</b>	3500	3400	3100	2600	2400	2100	1900	1700
<b>190x45 F7</b>	4700	4400	4100	3500	3200	2800	2500	2300
<b>240x45 F7</b>	5500	5200	4900	4300	4000	3600	3200	2900
<b>290x45 F7</b>	6200	5900	5600	4900	4600	4200	3800	3500
<b>140x65 GL8</b>	3900	3800	3500	2900	2700	2400	2100	1900
<b>190x65 GL8</b>	5000	4700	4500	4000	3600	3200	2900	2600
<b>240x65 GL8</b>	5800	5500	5300	4700	4400	4000	3600	3300
<b>290x65 GL8</b>	6600	6300	6000	5400	5000	4600	4300	4000

Size & Grade	Continuous Span Verandah Beams - Span values in mm							
	Roof Load Width (mm)							
	900	1200	1500	2400	3000	4000	5000	6000
<b>140x35 F7</b>	3600	3400	3100	2400	2200	1900	1700	1600
<b>190x35 F7</b>	4800	4500	4000	3200	2900	2500	2300	2100
<b>140x45 F7</b>	3900	3900	3500	2800	2500	2200	2000	1800
<b>190x45 F7</b>	5300	5300	4800	3800	3400	3000	2700	2500
<b>240x45 F7</b>	6700	6500	6100	4800	4300	3700	3400	3100
<b>290x45 F7</b>	7800	7400	7000	5700	5100	4400	4000	3700
<b>140x65 GL8</b>	4400	4400	4400	3500	3200	2800	2500	2300
<b>190x65 GL8</b>	6000	5900	5600	4800	4300	3800	3400	3100
<b>240x65 GL8</b>	7300	7000	6600	5900	5500	4800	4300	4000
<b>290x65 GL8</b>	8300	7900	7500	6700	6300	5800	5200	4800

  
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**HR DESIGN GROUP Pty Ltd**

Director

Date: 12/02/14

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## Verandah Beam

### Light Sheet Roof - no ceiling - Dead Load 10kg/m<sup>2</sup>

#### Loading Data:

Dead Load of roof: Sheet roof with no ceiling, maximum 10 kg/m<sup>2</sup>.

(Covers standard residential roof materials, for roof pitch maximum 35deg)

Wind Load taken as N2 in accordance with AS 4055 Wind Loads for Housing

TREATED PINE DISTRIBUTORS glulam beams are manufactured straight, without any camber built into the beams.

Verandah beam deflection criteria in accordance with methods presented in AS1684.1-1999, and structural timber design in accordance with AS1720.1-2010.

#### Notes:

1. Minimum bearing lengths for support of verandah beams: 45mm on end supports, and 65mm internal supports.
2. The span value shown is the distance between centrelines of supports.
3. For continuous spans, the adjacent beam spans may be different, but look up the larger of the spans, and the shorter span must be more than 50% of the larger span. If this rule is not met, then consider the verandah beams are simply supported, and look up the larger span in the single span table.
4. Deflection criteria: for dead load, the lesser of Span/360, or 10mm, and for Roof Live Loads, Span/250.
5. 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, .1-2002, .2-2011 Loading Codes for Limit State design, Live Loads, and Wind Loads respectively.

AS1684.1-1999 Design Criteria for Residential Timber Framing.

A handwritten signature in black ink, appearing to read "S. Hunt".

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