

Rafters – N2 - Light Sheet Roof - No ceiling - Dead Load 10kg/m²

Size & Grade	Single Span Rafters - Span values in mm					Continuous Span Rafters - Span values in mm				
	Rafter Spacing (mm)					Rafter Spacing (mm)				
	600	900	1200	1500	1800	600	900	1200	1500	1800
90x35 F7	2800	2400	1900	1800	1600	3200	2500	2000	1800	1600
140x35 F7	4300	3900	3300	2900	2600	5000	4000	3300	2900	2600
190x35 F7	5500	5100	4500	3900	3400	6600	5300	4400	3800	3400
90x45 F7	3000	2700	2300	2100	1900	3600	2800	2300	2100	1900
140x45 F7	4500	4100	3800	3300	3000	5800	4600	3800	3300	3000
190x45 F7	5800	5400	5100	4600	4100	7300	6300	5300	4600	4100
240x45 F7	6700	6300	6000	5800	5200	8400	8000	6800	5900	5200
290x45 F7	7500	7100	6800	6600	5900	9500	9000	8100	7000	6200
140x65 GL8	4900	4500	4200	4000	3800	6300	5400	4700	4200	3800
190x65 GL8	6100	5700	5500	5300	5000	7600	7200	6400	5700	5200
240x65 GL8	7000	6700	6400	6200	6000	8800	8400	8100	7200	6600
290x65 GL8	7800	7500	7200	7000	6800	9900	9500	9100	8800	8000

Basic Loading Data:

Roofing = Light Sheet (10)

There is no ceiling load applied

Wind Area = N2

Wind Design Strength Pressure = 0.96 kPa

Wind Serviceability Pressure = 0.41 kPa

Notes:

1. Minimum bearing lengths for support of rafters: 35mm on end supports, and 45mm internal supports.
2. The span value shown is the distance between centrelines of supports.
3. For continuous spans, the adjacent rafter 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 rafters are simply supported, and look up the larger span in the single span table.
4. Deflection criteria: for dead load, the lesser of Span/300, or 20mm, 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.



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Page: 1 of 1

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