



Rafters – N2 - Sheet Roof – Ceiling - Dead Load 32kg/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	2000	1800	1600	1500	1400	2800	2400	2100	1900	1700
140x35 F7	3100	2800	2500	2300	2200	4200	3800	3400	3000	2700
190x35 F7	4200	3700	3400	3200	3000	5600	5100	4600	4200	3700
90x45 F7	2200	1900	1700	1600	1500	3000	2600	2400	2100	2000
140x45 F7	3400	3000	2700	2500	2400	4600	4100	3700	3400	3100
190x45 F7	4500	4000	3700	3400	3200	5900	5400	5000	4700	4200
240x45 F7	5500	5000	4600	4300	4100	7000	6400	6000	5700	5400
290x45 F7	6300	5800	5500	5200	4900	7900	7300	6900	6600	6300
140x65 GL8	3700	3300	3100	2900	2700	5100	4500	4200	3900	3700
190x65 GL8	5000	4500	4100	3900	3600	6400	5900	5500	5200	5000
240x65 GL8	5900	5500	5100	4800	4600	7500	6900	6600	6300	6000
290x65 GL8	6800	6300	5900	5700	5500	8500	7900	7500	7200	6900

Basic Loading Data:

Roofing = Sheet (20)

Ceiling = 13mm P'Board (12)

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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