



Posts

N1 & N2 - 10 kg/m² Roof Dead Load

Size & Grade	2	4	6	8	10	15	20	25
70x70 GL8	3500	3500	3500	3500	3200	-	-	-
90x70 GL8	3500	3500	3500	3500	3500	3300	-	-
90x90 GL8	4500	4500	4500	4500	4500	4400	3600	-
115x115 GL8	5750	5750	5750	5750	5750	5750	5750	5600
135x135 GL8	6750	6750	6750	6750	6750	6750	6750	6750

N1 & N2 - 40 kg/m²

Size & Grade	2	4	6	8	10	15	20	25
70x70 GL8	3500	3500	3400	2800	2300	1500	-	-
90x70 GL8	3500	3500	3500	3500	3300	2500	1800	-
90x90 GL8	4500	4500	4500	4500	4400	3300	2600	1900
115x115 GL8	5750	5750	5750	5750	5750	5750	4900	4100
135x135 GL8	6750	6750	6750	6750	6750	6750	6750	6100

N1 & N2 - 90 kg/m²

Size & Grade	2	4	6	8	10	15	20	25
70x70 GL8	3500	2700	1900	1300	-	-	-	-
90x70 GL8	3500	3500	2800	2300	1800	-	-	-
90x90 GL8	4500	4500	3700	3000	2500	-	-	-
115x115 GL8	5750	5750	5750	5400	4700	3400	2500	-
135x135 GL8	6750	6750	6750	6750	6750	5200	4100	3300

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Posts

N3 - 10 kg/m² Roof Dead Load

Size & Grade	2	4	6	8	10	15	20	25
70x70 GL8	3500	3500	3500	2900	-	-	-	-
90x70 GL8	3500	3500	3500	3500	3400	-	-	-
90x90 GL8	4500	4500	4500	4500	4500	3400	-	-
115x115 GL8	5750	5750	5750	5750	5750	5750	5000	4200
135x135 GL8	6750	6750	6750	6750	6750	6750	6750	6300

N3 - 40 kg/m²

Size & Grade	2	4	6	8	10	15	20	25
70x70 GL8	3500	3500	2800	2300	1800	-	-	-
90x70 GL8	3500	3500	3500	3200	2700	-	-	-
90x90 GL8	4500	4500	4500	4300	3600	2600	-	-
115x115 GL8	5750	5750	5750	5750	5750	5000	4000	3300
135x135 GL8	6750	6750	6750	6750	6750	6750	6000	5100

N3 - 90 kg/m²

Size & Grade	2	4	6	8	10	15	20	25
70x70 GL8	3500	2700	1900	1300	-	-	-	-
90x70 GL8	3500	3500	2800	2300	1800	-	-	-
90x90 GL8	4500	4500	3700	3000	2500	-	-	-
115x115 GL8	5750	5750	5750	5400	4700	3400	2500	-
135x135 GL8	6750	6750	6750	6750	6750	5200	4100	3300

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Posts

N3 - 40 kg/m² Roof Dead Load

Floor Dead Load 42 kg/m² Floor Live Load 2.0kPa (Residential internal or external decks)

Size & Grade	Roof Area m ²							
	0				5			
	Floor Area m ²				Floor Area m ²			
	3	4	5	6	3	4	5	6
70x70 GL8	3000	2400	2000	1500	2300	1900	1600	900
90x70 GL8	3500	3400	2900	2500	3200	2800	2500	2200
90x90 GL8	4500	4500	3900	3400	4200	3800	3400	3000
115x115 GL8	5750	5750	5750	5750	5750	5750	5750	5500
135x135 GL8	6750	6750	6750	6750	6750	6750	6750	6750

Size & Grade	Roof Area m ²							
	10				15			
	Floor Area m ²				Floor Area m ²			
	3	4	5	6	3	4	5	6
70x70 GL8	1300	1000	-	-	-	-	-	-
90x70 GL8	2400	2300	2100	1700	-	-	-	-
90x90 GL8	3100	3000	2700	2500	2300	2100	2000	1800
115x115 GL8	5750	5500	5100	4700	4500	4400	4200	4100
135x135 GL8	6750	6750	6750	6750	6600	6400	6300	6100

Notes for the use of tables supporting roof and floor.

In these tables, there are two load variables, the area of roof and the area of floor supported. The lower part of the post, below the bearer, is the relevant section of post considered. However, the upper section of post between floor and roof must also be checked. Look up the roof only supported tables for application of this section of the post. Once you have a suitable size of post, based on the height of the post above floor, then you can use the roof and floor supported tables to check the lower section of post, below the floor. The trap in this design is that the upper section of post supporting roof only loads can easily be the critical post design section, especially if the post below floor is relatively short.

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Posts

N3 - 90 kg/m² Roof Dead Load

Floor Dead Load 42 kg/m²

Floor Live Load 2.0kPa (Residential internal or external decks)

Size & Grade	Roof Area m ²							
	0				5			
	Floor Area m ²				Floor Area m ²			
	3	4	5	6	3	4	5	6
70x70 GL8	3000	2400	2000	1500	1400	1000	-	-
90x70 GL8	3500	3400	2900	2500	2400	2100	1900	1400
90x90 GL8	4500	4500	3900	3400	3100	2800	2600	2300
115x115 GL8	5750	5750	5750	5750	5600	5200	4800	4500
135x135 GL8	6750	6750	6750	6750	6750	6750	6750	6500

Size & Grade	Roof Area m ²							
	10				15			
	Floor Area m ²				Floor Area m ²			
	3	4	5	6	3	4	5	6
70x70 GL8	-	-	-	-	-	-	-	-
90x70 GL8	-	-	-	-	-	-	-	-
90x90 GL8	2000	1700	1300	-	-	-	-	-
115x115 GL8	4100	3800	3600	3400	3100	2900	2800	2600
135x135 GL8	6000	5600	5300	5100	4800	4600	4400	4200

Basic Loading Data:

Roofing = Sheet (20)

Ceiling = 13mm P'Board (12)

Wind Area = N3

Wind Design Strength Pressure = 1.5 kPa

Wind Serviceability Pressure = 0.61 kPa

Notes:

- The height value shown is the clear distance between support and floor or roof beams attached.
- 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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