

Stud Requirement Table

CONSTRUCTION SPECIFICATIONS

Max. truss crs. @ 1200mm, Min. truss crs. @ 600mm.

Assume walls are fully lined on at least one face.

Assume full bearing on top plate (i.e. no eccentric loading).

TRUSS BEARING REACTION	STUD REQUIREMENTS FOR CONCENTRATED LOADS	
	STUD HEIGHT	REQUIREMENTS
Bearing reaction up to & including 10 kN	2400	Refer to NZS 3604:2011
	2700	
	3000	
	STUD HEIGHT	STUD REQUIRED
Bearing reaction up to & including 20 kN	2400	PLL100 90 X 90
	2700	PLL100 90 X 90
	3000	PLL150 140 X 90
	STUD HEIGHT	STUD REQUIRED
Bearing reaction up to & including 30 kN	2400	PLL150 140 X 90
	2700	PLL150 140 X 90
	3000	PLL200 190 X 90

TIMBER SPECIFICATIONS

Timber properties based on NZS 3603:1993 Amendment No.4 March 2005.

Minimum grade specified is SG8 unless otherwise noted.

For SG6 use the studs for the next highest category.

- i.e.
- For loads up to 10 kN select studs from the 20 kN table.
 - For loads up to 20 kN select studs from the 30 kN table.
 - For loads above 20 kN Special Design is required.

* Note: The stud requirement for 20 kN & 30 kN bearing reactions can be applied to external walls as well.