

# Floor Joists

A Floor Joist is one of a number of parallel members required to support flooring.



**Table 1: Single Span**

Table 1

Floor Load Width (mm)	Maximum Span (mm)				
	1700	2800	3900	5200	6000
400	140x45	190x45	240x45	290x45	
	140x45	140x45	190x45	200x90	240x90
	140x45	140x45	190x45	240x45	300x45
		150x63	200x63	240x63	300x63
	<b>1600</b>	<b>2700</b>	<b>3700</b>	<b>5100</b>	<b>5800</b>
450	140x45	190x45	240x45	290x45	
	140x45	140x45	190x45	200x90	240x90
	140x45	140x45	190x45	240x45	300x45
		150x63	200x63	240x63	300x63
	<b>1600</b>	<b>2600</b>	<b>3600</b>	<b>4700</b>	<b>5400</b>
600	140x45	190x45	240x45	290x45	
	140x45	140x45	190x45	200x90	240x90
	140x45	140x45	190x45	240x45	300x45
		150x63	200x63	240x63	300x63

Table values relate to Allowable Maximum Span in mm

**Table 2: Continuous Span**

Table 2

Floor Load Width (mm)	Maximum Span (mm)				
	1900	3100	4400	5700	6600
400	140x45	190x45	240x45	290x45	
	140x45	140x45	190x45	200x90	240x90
	140x45	140x45	190x45	240x45	300x45
		150x63	200x63	240x63	300x63
	<b>1800</b>	<b>3000</b>	<b>4200</b>	<b>5600</b>	<b>6400</b>
450	140x45	190x45	240x45	290x45	
	140x45	140x45	190x45	200x90	240x90
	140x45	140x45	190x45	240x45	300x45
		150x63	200x63	240x63	300x63
	<b>1800</b>	<b>2900</b>	<b>4100</b>	<b>5200</b>	<b>5900</b>
600	140x45	190x45	240x45		
	140x45	140x45	190x45	200x90	240x90
	140x45	140x45	190x45	240x45	300x45
		150x63	200x63	240x63	300x63

Table values relate to Allowable Maximum Span in mm

**Notes:**

- Floor Dead Load: with ceiling - 42kg/m<sup>2</sup>**
- Basic Loading Data**  
 Flooring: Particle Board (30kg/m<sup>2</sup>)  
 Underfloor Ceiling: 10mm P'Board (12kg/m<sup>2</sup>)  
 Floor Live Load: Domestic Standard (1.5,1.8kPa)  
 Wind Area: Very High  
 Min End Bearing Length: 30mm  
 Min Intermediate Bearing: 45mm  
 AS1684.1 Dynamics for 1.0kN static load
- Dimensional Data**  
 Top Edge Restraint: continuous restraint  
 Bottom Edge Restraint: nil
- Design Deflection Limits**  
 Dead Load: Span/300 or 15mm max  
 Live Load: Span/360 or 9mm max  
 Dynamic Criteria - 1kN Point Load 2mm max
- Flooring Material**  
 The above tables allow for a timber flooring material only.
- External Use**  
 Where overhanging joists are to be used in an external application such as a balcony, the members must be fully protected from the weather, or treated to an H3 level.

**Important:**

These Span Tables only apply to HC Flexframe LVL products  
 LVL Manufacturing: AS/NZS 4357.0  
 Structural Design Properties: AS 1720.1  
 Phenolic Adhesive: AS 2754.1  
 Bond: AS/NZS 2098.2 A-bond E0  
 TPAA Approved Treatment 616 59 for H2S & H1.2 Glue Line Additive

HC Frame LVL 8
HC Frame LVL 11
HC Frame LVL [F17]



# Floor Bearers

A Floor Bearer is a beam required to support floor joists.  
The joists may be on top of, level with, or below the bearer.



Table 1: Single Span

Floor Load Width (mm)	Maximum Span (mm)				
	1800	2800	3700	4700	5400
1200	2/140x45	2/190x45	2/240x45	2/290x45	
	2/90x45	2/140x45	2/190x45	300x90	300x90
	2/90x45	2/140x45	2/190x45	2/300x45	2/300x45
	150x63	150x63	200x63	300x63	360x63
	<b>1600</b>	<b>2600</b>	<b>3500</b>	<b>4500</b>	<b>5100</b>
1500	2/140x45	2/190x45	2/240x45		
	2/90x45	2/140x45	2/190x45	300x90	300x90
	2/90x45	2/140x45	2/190x45	2/300x45	2/300x45
	150x63	200x63	240x63	300x63	360x63
	<b>1500</b>	<b>2400</b>	<b>3300</b>	<b>4300</b>	<b>4900</b>
1800	2/140x45	2/190x45	2/240x45		
	2/90x45	2/140x45	2/190x45	300x90	300x90
	2/90x45	2/140x45	2/190x45	2/300x45	2/300x45
	150x63	150x63	200x63	300x63	360x63
	<b>1500</b>	<b>2300</b>	<b>3100</b>	<b>4100</b>	<b>4700</b>
2100	2/140x45	2/190x45	2/240x45	2/290x45	
	2/90x45	2/140x45	2/190x45	300x90	300x90
	2/90x45	2/140x45	2/190x45	2/300x45	2/300x45
	150x63	150x63	200x63	300x63	360x63
	<b>1400</b>	<b>2200</b>	<b>3000</b>	<b>4000</b>	<b>4500</b>
2400	2/140x45	2/190x45	2/240x45		
	2/90x45	2/140x45	2/190x45	300x90	300x90
	2/90x45	2/140x45	2/190x45	2/300x45	2/300x45
	150x63	150x63	200x63	300x63	360x63
	<b>1300</b>	<b>2000</b>	<b>2800</b>	<b>3700</b>	<b>4300</b>
3000	2/140x45	2/190x45	2/240x45	2/290x45	
	2/90x45	2/140x45	2/190x45	300x90	300x90
	2/90x45	2/140x45	2/190x45	2/240x45	2/300x45
	150x63	150x63	200x63	300x63	360x63
	<b>1200</b>	<b>1800</b>	<b>2500</b>	<b>3500</b>	<b>4000</b>
4000	2/140x45	2/190x45	2/240x45		
	2/90x45	2/140x45	2/190x45	300x90	300x90
	2/90x45	2/140x45	2/200x45	2/300x45	2/300x45
	150x63	150x63	200x63	300x63*	360x63*
	<b>1100</b>	<b>1700</b>	<b>2300</b>	<b>3200</b>	<b>3800</b>
5000	2/140x45	2/190x45	2/240x45	2/290x45*	
	2/90x45	2/140x45	2/190x45	300x90	300x90
	2/90x45	2/140x45	2/190x45	2/300x45	2/300x45
	150x63	150x63	200x63	300x63*	360x63*

Table values relate to Allowable Maximum Span in mm  
\* denotes member must have a minimum 65mm bearing length at the two supports.

**Notes:**

- Floor Dead Load:** without ceiling - 30kg/m<sup>2</sup>
- Basic Loading Data:** Flooring: Particle Board (30kg/m<sup>2</sup>), Wind Area: Very High, Floor Live Load: Domestic Std (1.5,1.8kPa), Min End Bearing Length: 45mm, Min Intermediate Bearing: 65mm
- Dimensional Data:** Top Edge Restraint: 45mm, Bottom Edge Restraint: nil
- Design Deflection Limits:** Dead Load: Span/300 or 12mm max, Live Load: Span/360 or 9mm max
- Floor Joist Spacing:** The tables have been designed assuming the supported floor joists are spaced at a maximum of 600mm centres.
- Concentrated Loads:** No allowance has been made in the tables for floor joists supporting concentrated loads from load bearing walls. There should be a dynamic check included for floor bearers.

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Table 2: Continuous Span

Floor Load Width (mm)	Maximum Span (mm)				
	2100	3200	4200	5200	5900
1200	2/140x45	2/190x45	2/240x45	2/290x45	
	2/90x45	2/140x45	2/190x45	300x90	300x90
	2/90x45	2/140x45	2/190x45	2/240x45	2/300x45
	150x63	150x63	240x63	300x63	360x63
	<b>1900</b>	<b>3000</b>	<b>3900</b>	<b>4900</b>	<b>5600</b>
1500	2/140x45	2/190x45	2/240x45	2/290x45	
	2/90x45	2/140x45	2/190x45	300x90	300x90
	2/90x45	2/140x45	2/190x45	2/240x45	2/300x45
	150x63	200x63	240x63	300x63	360x63
	<b>1800</b>	<b>2800</b>	<b>3800</b>	<b>4700</b>	<b>5400</b>
1800	2/140x45	2/190x45	2/240x45	2/290x45	
	2/90x45	2/140x45	2/190x45	300x90	360x90
	2/90x45	2/140x45	2/190x45	2/240x45	2/300x45
	150x63	150x63	240x63	300x63	360x63*
	<b>1700</b>	<b>2700</b>	<b>3600</b>	<b>4500</b>	<b>5100</b>
2100	2/140x45	2/190x45	2/240x45	2/290x45	
	2/90x45	2/140x45	2/190x45	300x90	300x90
	2/90x45	2/140x45	2/190x45	2/240x45	2/300x45
	150x63	150x63	200x63	300x63*	360x63#
	<b>1600</b>	<b>2600</b>	<b>3500</b>	<b>4300</b>	<b>5000</b>
2400	2/140x45	2/190x45	2/240x45	2/290x45*	
	2/90x45	2/140x45	2/190x45	300x90	360x90
	2/90x45	2/140x45	2/190x45	2/240x45	2/300x45
	150x63	150x63	200x63	300x63#	360x63#
	<b>1500</b>	<b>2400</b>	<b>3200</b>	<b>4100</b>	<b>4700</b>
3000	2/140x45	2/190x45	2/240x45*	2/290x45#	
	2/90x45	2/140x45	2/190x45	300x90	300x90
	2/90x45	2/140x45	2/190x45	2/240x45	2/300x45
	150x63	150x63	200x63	300x63#	360x63#
	<b>1400</b>	<b>2000</b>	<b>2900</b>	<b>3800</b>	<b>4400</b>
4000	2/140x45	2/190x45	2/240x45#		
	2/90x45	2/140x45	2/190x45	300x90#	360x90#
	2/90x45	2/140x45	2/190x45	2/240x45*	2/300x45#
	150x63	150x63	200x63#		
	<b>1300</b>	<b>2000</b>	<b>2700</b>	<b>3600</b>	<b>4100</b>
5000	2/140x45	2/190x45	2/240x45#		
	2/90x45	2/140x45	2/190x45	300x90#	300x90#
	2/90x45	2/140x45	2/190x45*	2/240x45#	2/300x45#
	150x63	150x63	240x63#		

Table values relate to Allowable Maximum Span in mm  
\* denotes member must have a minimum 85mm bearing length at the internal support.  
# denotes member must have a minimum 115mm bearing length at the internal support.

**Important:**

These Span Tables only apply to HC Flexframe LVL products  
LVL Manufacturing: AS/NZS 4357.0  
Structural Design Properties: AS 1720.1  
Phenolic Adhesive: AS 2754.1  
Bond: AS/NZS 2098.2 A-bond E0  
TPAA Approved Treatment 616 59 for H2S & H1.2 Glue Line Additive

- HC Frame LVL 8
- HC Frame LVL 11
- HC Frame LVL [F17]

HC FlexFrame LVL



# Lintels

## Single or Upper Storey

*Lintels are beams contained with load bearing walls over windows or doors. They transfer the vertical loads applied over the opening to the jamb studs on each side.*



**Table 1: Light Sheet Roof: with ceiling - 40kg/m<sup>2</sup>  
Roofing: Sheet (20kg/m<sup>2</sup>)  
Ceiling: 13mm Plaster Board (20kg/m<sup>2</sup>)**

**Table 2: Heavy Tile Roof: with ceiling - 90kg/m<sup>2</sup>  
Roofing: Terracotta Tiles (70kg/m<sup>2</sup>)  
Ceiling: 13mm Plaster Board (20kg/m<sup>2</sup>)**

Table 1

Single Span Roof Load Width (mm)	Maximum Span (mm)				
	2100	3200	4000	4700	5500
1800	2/140x45	2/190x45	2/240x45	2/290x45	
	2/90x45	2/140x45	2/190x45		2/360x45
	150x90	150x90	200x90	240x90	300x90
	2/140x45	2/140x45	2/190x45	2/240x45	2/300x45
	<b>2000</b>	<b>3100</b>	<b>3900</b>	<b>4600</b>	<b>5400</b>
2100	2/140x45	2/190x45	2/240x45	2/290x45	
	2/90x45	2/140x45	2/190x45		2/360x45
	150x90	150x90	200x90	240x90	300x90
	2/140x45	2/140x45	2/190x45	2/240x45	2/300x45
	<b>1900</b>	<b>3000</b>	<b>3800</b>	<b>4500</b>	<b>5300</b>
2400	2/140x45	2/190x45	2/240x45	2/290x45	
	2/90x45	2/140x45	2/190x45		2/360x45
	150x90	150x90	200x90	240x90	300x90
	2/140x45	2/140x45	2/190x45	2/240x45	2/300x45
	<b>1800</b>	<b>2800</b>	<b>3600</b>	<b>4400</b>	<b>5200</b>
3000	2/140x45	2/190x45	2/240x45	2/290x45	
	2/90x45	2/140x45	2/190x45		2/360x45
	150x90	150x90	200x90	240x90	300x90
	2/140x45	2/140x45	2/190x45	2/240x45	2/300x45
	<b>1600</b>	<b>2600</b>	<b>3300</b>	<b>4200</b>	<b>5000</b>
4000	2/140x45	2/190x45	2/240x45	2/290x45	
	2/90x45	2/140x45	2/190x45		2/360x45
	150x90	150x90	200x90	240x90	300x90
	2/140x45	2/140x45	2/190x45	2/240x45	2/360x45
	<b>1500</b>	<b>2400</b>	<b>3200</b>	<b>4000</b>	<b>4800</b>
5000	2/140x45	2/190x45	2/240x45	2/290x45	
	2/90x45	2/140x45	2/190x45		2/360x45
	150x90	150x90	200x90	240x90	300x90
	2/140x45	2/140x45	2/190x45	2/240x45	2/360x45

Table values relate to Allowable Maximum Span in mm

Table 2

Single Span Roof Load Width (mm)	Maximum Span (mm)				
	1600	2600	3300	4000	4700
1800	2/140x45	2/190x45	2/240x45	2/290x45	
	2/90x45	2/140x45	2/190x45		2/360x45
	150x90	150x90	200x90	240x90	300x90
	2/140x45	2/140x45	2/190x45	2/240x45	2/300x45
	<b>1600</b>	<b>2400</b>	<b>3200</b>	<b>3900</b>	<b>4600</b>
2100	2/140x45	2/190x45	2/240x45	2/290x45	
	2/90x45	2/140x45	2/190x45		2/360x45
	150x90	150x90	200x90	240x90	300x90
	2/140x45	2/140x45	2/190x45	2/240x45	2/300x45
	<b>1500</b>	<b>2300</b>	<b>3100</b>	<b>3800</b>	<b>4500</b>
2400	2/140x45	2/190x45	2/240x45	2/290x45	
	2/90x45	2/140x45	2/190x45		2/360x45
	150x90	150x90	200x90	240x90	300x90
	2/140x45	2/140x45	2/190x45	2/240x45	2/300x45
	<b>1400</b>	<b>2200</b>	<b>2900</b>	<b>3600</b>	<b>4300</b>
3000	2/140x45	2/190x45	2/240x45	2/290x45	
	2/90x45	2/140x45	2/190x45		2/360x45
	150x90	150x90	200x90	240x90	300x90
	2/140x45	2/140x45	2/190x45	2/240x45	2/300x45
	<b>1200</b>	<b>2000</b>	<b>2700</b>	<b>3400</b>	<b>4100</b>
4000	2/140x45	2/190x45	2/240x45	2/290x45	
	2/90x45	2/140x45	2/190x45		2/360x45
	150x90	150x90	200x90	240x90	300x90
	2/140x45	2/140x45	2/190x45	2/240x45	2/300x45
	<b>1200</b>	<b>1800</b>	<b>2500</b>	<b>3200</b>	<b>3900</b>
5000	2/140x45	2/190x45	2/240x45	2/290x45	
	2/90x45	2/140x45	2/190x45		2/360x45
	150x90	150x90	200x90	240x90	300x90
	2/140x45	2/140x45	2/190x45	2/240x45	2/360x45

Table values relate to Allowable Maximum Span in mm

**Notes:**

- Basic Loading Data**  
Snow Load: 0.9kPa  
Wind Area: Very High  
Min End Bearing Length: 60mm
- Dimensional Data**  
Roof Pitch: 15.0 degrees  
Bottom Edge Restraint: nil
- Design Deflection Limits**  
Dead Load: Span/300 or 10mm max  
Live Load: Span/360 or 10mm max

**Important:**

These Span Tables only apply to HC Flexframe LVL products  
LVL Manufacturing: AS/NZS 4357.0  
Structural Design Properties: AS 1720.1  
Phenolic Adhesive: AS 2754.1  
Bond: AS/NZS 2098.2 A-bond E0  
TPAA Approved Treatment 616 59 for H2S & H1.2 Glue Line Additive

<b>HC Frame LVL 8</b>
<b>HC Frame LVL 11</b>
<b>HC Frame LVL [F17]</b>



# Rafters

A Rafter is one of a number of parallel members required to support roofing loads, via an overlying set of battens or purlins. They are aligned at the roof and run perpendicular to the ridge and top plate.



**Table 1+2: Light Sheet Roof: with ceiling - 40kg/m<sup>2</sup>  
Roofing: Sheet (20kg/m<sup>2</sup>)  
Ceiling: 13mm Plaster Board (20kg/m<sup>2</sup>)**

**Table 3+4: Heavy Tile Roof: with ceiling - 90kg/m<sup>2</sup>  
Roofing: Terracotta Tiles (70kg/m<sup>2</sup>)  
Ceiling: 13mm Plaster Board (20kg/m<sup>2</sup>)**

Table 1

Single Span Rafter Spacing (mm)	Maximum Span (mm)				
	2400	3700	4900	5200	6500
600	140x45	190x45	240x45	290x45	
	90x45	140x45	190x45	150x90	200x90
	90x45	140x45	190x45	190x45	300x45
			150x63	200x63	240x63
	<b>2100</b>	<b>3200</b>	<b>4400</b>	<b>4700</b>	<b>6000</b>
900	140x45	190x45	240x45	290x45	
	90x45	140x45	190x45	150x90	200x90
	90x45	140x45	190x45	190x45	300x45
			150x63	200x63	240x63
	<b>1900</b>	<b>3000</b>	<b>4000</b>	<b>4300</b>	<b>5700</b>
1200	140x45	190x45	240x45	290x45	
	90x45	140x45	190x45	150x90	200x90
	90x45	140x45	190x45	190x45	300x45
			150x63	200x63	240x63

Table values relate to Allowable Maximum Span in mm

Table 3

Single Span Roof Load Width (mm)	Maximum Span (mm)				
	1800	2900	3900	4200	5500
600	140x45	190x45	240x45	240x45	
	90x45	140x45	190x45	150x90	200x90
	90x45	140x45	190x45	190x45	300x45
			150x63	200x63	240x63
	<b>1600</b>	<b>2500</b>	<b>3400</b>	<b>3700</b>	<b>4900</b>
900	140x45	190x45	240x45	240x45	
	90x45	140x45	190x45	150x90	200x90
	90x45	140x45	190x45	190x45	300x45
			150x63	200x63	240x63
	<b>1500</b>	<b>2300</b>	<b>3100</b>	<b>3400</b>	<b>4500</b>
1200	140x45	190x45	240x45	240x45	
	90x45	140x45	190x45	150x90	200x90
	90x45	140x45	190x45	190x45	300x45
			150x63	200x63	240x63

Table values relate to Allowable Maximum Span in mm

Table 2

Continuous Span Roof Load Width (mm)	Maximum Span (mm)				
	3200	5000	6400	6700	8200
600	140x45	190x45	240x45	240x45	
	90x45	140x45	190x45	150x90	200x90
	90x45	140x45	190x45	190x45	300x45
			150x63	200x63	240x63
	<b>2800</b>	<b>4400</b>	<b>5900</b>	<b>6200</b>	<b>7600</b>
900	140x45	190x45	240x45	290x45	
	90x45	140x45	190x45	150x90	200x90
	90x45	140x45	190x45	190x45	300x45
			200x63	200x63	240x63
	<b>2600</b>	<b>4000</b>	<b>5400</b>	<b>5800</b>	<b>7200</b>
1200	140x45	190x45	240x45	240x45	
	90x45	140x45	190x45	150x90	200x90
	90x45	140x45	190x45	200x45	300x45
			150x63	200x63	240x63

Table values relate to Allowable Maximum Span in mm

Table 4

Continuous Span Roof Load Width (mm)	Maximum Span (mm)				
	2500	3900	5300	5700	7000
600	140x45	190x45	240x45	240x45	290x45
	90x45	140x45	190x45	150x90	200x90
	90x45	140x45	190x45	190x45	300x45
			150x63	200x63	240x63
	<b>2200</b>	<b>3400</b>	<b>4600</b>	<b>5000</b>	<b>6400</b>
900	140x45	190x45	240x45	290x45	
	90x45	140x45	190x45	150x90	200x90
	90x45	140x45	190x45	190x45	300x45
			150x63	200x63	240x63
	<b>2000</b>	<b>3100</b>	<b>4200</b>	<b>4600</b>	<b>6000</b>
1200	140x45	190x45	240x45	240x45	
	90x45	140x45	190x45	150x90	200x90
	90x45	140x45	190x45	190x45	300x45
			150x63	200x63	240x63

Table values relate to Allowable Maximum Span in mm

**Notes:**

- Basic Loading Data:** Snow Load: 0.9kPa, Wind Area: Very High, Min End Bearing Length: 36mm
- Dimensional Data:** Roof Pitch: 15.0 degrees, Bottom Edge Restraint: 0.45m
- Design Deflection Limits:** Dead Load: Span/300 or 200mm max, Live Load: Span/250 or 12.5mm max, Overhang: Span/300 or 10mm max
- Overhangs:** The overhanging rafters must be tied together at their ends by a fascia board. No overhang is to be greater than one half of the adjacent back span.

**Important:**

These Span Tables only apply to HC FlexFrame LVL products  
LVL Manufacturing: AS/NZS 4357.0  
Structural Design Properties: AS 1720.1  
Phenolic Adhesive: AS 2754.1  
Bond: AS/NZS 2098.2 A-bond EO  
TPAA Approved Treatment 616 59 for H2S & H1.2 Glue Line Additive

<b>HC Frame LVL 8</b>
<b>HC Frame LVL 11</b>
<b>HC Frame LVL [F17]</b>



# Stud Frames

## Lower of two levels

A wall stud is a vertical framing member in a building's wall of smaller cross section than a post.



Maximum Stud Height (m)	Wind Zone	Maximum Spacing (mm)				
		150 or 2/300	200 or 2/400	300 or 2/600	400	600
2.4m	Extra High	90x45	90x45	90x45	90x45	90x45
	Very High	90x45	90x45	90x45	90x45	90x45
	High	90x45	90x45	90x45	90x45	90x45
	Medium	90x45	90x45	90x45	90x45	90x45
	Low / Internal	90x45	90x45	90x45	90x45	90x45
2.7m	Extra High	90x45	90x45	90x45	90x45	90x45
	Very High	90x45	90x45	90x45	90x45	90x45
	High	90x45	90x45	90x45	90x45	90x45
	Medium	90x45	90x45	90x45	90x45	90x45
	Low / Internal	90x45	90x45	90x45	90x45	90x45
3.0m	Extra High	90x45	90x45	90x45	140x45	140x45
	Very High	90x45	90x45	90x45	90x45	140x45
	High	90x45	90x45	90x45	90x45	140x45
	Medium	90x45	90x45	90x45	90x45	90x45
	Low / Internal	90x45	90x45	90x45	90x45	90x45
3.3m	Extra High	90x45	90x45	90x45	140x45	140x45
	Very High	90x45	90x45	90x45	140x45	140x45
	High	90x45	90x45	90x45	140x45	140x45
	Medium	90x45	90x45	90x45	90x45	90x45
	Low / Internal	90x45	90x45	90x45	90x45	90x45
3.6m	Extra High	90x45	140x45	140x45	140x45	140x45
	Very High	90x45	90x45	140x45	140x45	140x45
	High	90x45	90x45	140x45	140x45	140x45
	Medium	90x45	90x45	90x45	90x45	140x45
	Low / Internal	90x45	90x45	90x45	90x45	140x45

Table values relate to Allowable Maximum Span in mm

Maximum Stud Height (m)	Wind Zone	Maximum Spacing (mm)				
		150 or 2/300	200 or 2/400	300 or 2/600	400	600
3.9m	Extra High	140x45	140x45	140x45	140x45	190x45
	Very High	90x45	140x45	140x45	140x45	190x45
	High	90x45	90x45	140x45	140x45	140x45
	Medium	90x45	90x45	90x45	140x45	140x45
	Low / Internal	90x45	90x45	90x45	90x45	140x45
4.2m	Extra High	140x45	140x45	140x45	190x45	190x45
	Very High	140x45	140x45	140x45	140x45	190x45
	High	140x45	140x45	140x45	140x45	190x45
	Medium	90x45	90x45	140x45	140x45	140x45
	Low / Internal	90x45	90x45	90x45	140x45	140x45
4.8m	Extra High	140x45	140x45	190x45	190x45	
	Very High	140x45	140x45	190x45	190x45	190x45
	High	140x45	140x45	140x45	190x45	190x45
	Medium	140x45	140x45	140x45	140x45	190x45
	Low / Internal	90x45	140x45	140x45	140x45	140x45
5.4m	Extra High	190x45	190x45	190x45		
	Very High	140x45	190x45	190x45		
	High	140x45	140x45	190x45	140x45	
	Medium	140x45	140x45	190x45	140x45	140x45
	Low / Internal	140x45	140x45	140x45	140x45	140x45
6.0m	Extra High	190x45	190x45			
	Very High	190x45	190x45			
	High	190x45	190x45	190x45		
	Medium	140x45	140x45	190x45	190x45	
	Low / Internal	140x45	140x45	190x45	190x45	190x45

Table values relate to Allowable Maximum Span in mm

### Notes:

1. SG: 2.5kPa
2. Light and Heavy roof
3. Medium Weight Wall Cladding (0.55kPa)
4. Roof Load Width <6.0m (12.0m Span)
5. Eaves up to 750mm
6. Floor Load width 2kPa <3.0m (6.0m span)

### Important:

These Span Tables only apply to HC Flexframe LVL products  
 LVL Manufacturing: AS/NZS 4357.0  
 Structural Design Properties: AS 1720.1  
 Phenolic Adhesive: AS 2754.1  
 Bond: AS/NZS 2098.2 A-bond E0  
 TPAA Approved Treatment 616 59 for H2S & H1.2 Glue Line Additive

HC Frame LVL 8
HC Frame LVL 11
HC Frame LVL [F17]

# Stud Frames Single Storey

A wall stud is a vertical framing member in a building's wall of smaller cross section than a post.



Maximum Stud Height (m)	Wind Zone	Maximum Spacing (mm)				
		150 or 2/300	200 or 2/400	300 or 2/600	400	600
2.4m	Extra High	90x45	90x45	90x45	90x45	90x45
	Very High	90x45	90x45	90x45	90x45	90x45
	High	90x45	90x45	90x45	90x45	90x45
	Medium	90x45	90x45	90x45	90x45	90x45
	Low / Internal	90x45	90x45	90x45	90x45	90x45
2.7m	Extra High	90x45	90x45	90x45	90x45	90x45
	Very High	90x45	90x45	90x45	90x45	90x45
	High	90x45	90x45	90x45	90x45	90x45
	Medium	90x45	90x45	90x45	90x45	90x45
	Low / Internal	90x45	90x45	90x45	90x45	90x45
3.0m	Extra High	90x45	90x45	90x45	90x45	140x45
	Very High	90x45	90x45	90x45	90x45	90x45
	High	90x45	90x45	90x45	90x45	90x45
	Medium	90x45	90x45	90x45	90x45	90x45
	Low / Internal	90x45	90x45	90x45	90x45	90x45
3.3m	Extra High	90x45	90x45	140x45	140x45	140x45
	Very High	90x45	90x45	90x45	140x45	140x45
	High	90x45	90x45	90x45	90x45	140x45
	Medium	90x45	90x45	90x45	90x45	90x45
	Low / Internal	90x45	90x45	90x45	90x45	90x45
3.6m	Extra High	90x45	90x45	140x45	140x45	140x45
	Very High	90x45	90x45	140x45	140x45	140x45
	High	90x45	90x45	90x45	140x45	140x45
	Medium	90x45	90x45	90x45	90x45	140x45
	Low / Internal	90x45	90x45	90x45	90x45	90x45

Table values relate to Allowable Maximum Span in mm

Maximum Stud Height (m)	Wind Zone	Maximum Spacing (mm)				
		150 or 2/300	200 or 2/400	300 or 2/600	400	600
3.9m	Extra High	140x45	140x45	140x45	140x45	140x45
	Very High	90x45	140x45	140x45	140x45	140x45
	High	90x45	90x45	140x45	140x45	140x45
	Medium	90x45	90x45	90x45	90x45	140x45
	Low / Internal	90x45	90x45	90x45	90x45	140x45
4.2m	Extra High	140x45	140x45	140x45	140x45	190x45
	Very High	90x45	140x45	140x45	140x45	190x45
	High	90x45	140x45	140x45	140x45	140x45
	Medium	90x45	90x45	90x45	140x45	140x45
	Low / Internal	90x45	90x45	90x45	90x45	140x45
4.8m	Extra High	140x45	140x45	190x45	190x45	190x45
	Very High	140x45	140x45	140x45	190x45	190x45
	High	140x45	140x45	140x45	140x45	190x45
	Medium	90x45	140x45	140x45	140x45	140x45
	Low / Internal	90x45	90x45	140x45	140x45	140x45
5.4m	Extra High	140x45	190x45	190x45	190x45	
	Very High	140x45	140x45	190x45	190x45	
	High	140x45	140x45	190x45	190x45	190x45
	Medium	140x45	140x45	140x45	140x45	190x45
	Low / Internal	140x45	140x45	140x45	140x45	190x45
6.0m	Extra High	190x45	190x45			
	Very High	190x45	190x45	190x45		
	High	140x45	190x45	190x45	190x45	
	Medium	140x45	140x45	190x45	190x45	190x45
	Low / Internal	140x45	140x45	140x45	190x45	190x45

Table values relate to Allowable Maximum Span in mm

## Notes:

1. SG: 2.5kPa
2. Light and Heavy roof
3. Medium Weight Wall Cladding (0.55kPa)
4. Roof Load Width <6.0m (12.0m Span)
5. Eaves up to 750mm

## Important:

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