

## Bearers - 3 kPa floor loads

Maximum span of bearer continuous over 2 or more spans (m)	Loaded dimension* of bearer (m)		Bearer size (width x thickness) (mm x mm)	
	SG8	SG10	SG8	SG10
1.30	1.0	1.4	90 x 90	90 x 90
	1.9	2.8	140 x 70	140 x 70
	2.5	3.6	140 x 90	140 x 90
	3.6	5.1	190 x 70	190 x 70
1.65	1.2	1.7	140 x 70	140 x 70
	1.5	2.2	140 x 90	140 x 90
	2.2	3.2	190 x 70	190 x 70
2.00	1.0	1.5	140 x 90	140 x 90
	1.5	2.1	190 x 70	190 x 70

Refer NZS3604:2011 Tables 14.4 and A14.4  
 \* For definition of loaded dimension see 1.3. NOTE – Members 90 mm thick may be substituted with built-up members sized and nailed in accordance with 2.4.4.7.

## Floor joists for 3 kPa floor loads

Floor joist size (mm x mm)	Maximum span* of joists at a maximum spacing of: (mm)					
	400		450		600	
	(m)		(m)		(m)	
	SG8	SG10	SG8	SG10	SG8	SG10
90 x 45	1.45	1.55	1.35	1.50	1.20	1.30
140 x 35	2.00	2.25	1.90	2.15	1.65	1.90
140 x 45	2.25	2.70	2.15	2.55	1.85	2.15
190 x 45	<b>3.10</b>	3.70	<b>2.90</b>	3.50	2.50	<b>3.00</b>
240 x 45	3.90	4.65	3.70	4.40	3.20	3.80
290 x 45	4.75	5.60	4.45	5.35	3.85	4.60

Refer NZS3604:2011 Tables 14.8 and A14.8  
 \* May be increased by 10 % for joists continuous over 2 or more spans.

## Lintel supporting wall and floor only for 3 kPa floor loads

	Loaded dimension* of lintel (m)	Maximum span for lintel sizes listed below (m)															
		Width x thickness (mm)															
		140 x 70		140 x 90		190 x 70		190 x 90		240 x 70		240 x 90		290 x 70		290 x 90	
		SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10
Light wall	3.0	1.0	1.2	1.2	1.4	1.3	1.6	1.6	1.9	1.7	2.0	2.0	2.5	2.0	2.4	2.5	3.0
Medium wall	3.0	1.0	1.2	1.2	1.4	1.3	1.6	1.6	1.9	1.7	2.0	2.0	2.4	2.0	2.4	2.4	2.9

Refer NZS3604:2011 Tables 14.13 and A14.13  
 \* For definition of loaded dimension see 1.3 in NZS3604:2011. Members 90 mm thick may be substituted with built-up members sized and nailed in accordance with 2.4.4.7.

## Lintel supporting floor only for 3 kPa floor loads

Loaded dimension* of lintel (m)	Maximum span for lintel sizes listed below (m)															
	Width x thickness (mm)															
	140 x 70		140 x 90		190 x 70		190 x 90		240 x 70		240 x 90		290 x 70		290 x 90	
	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10
2.0	1.2	1.5	1.5	1.8	1.7	2.0	2.1	2.4	2.1	2.6	2.6	3.1	2.6	3.1	3.2	3.7
4.0	0.9	1.0	1.0	1.3	1.2	1.4	1.4	1.7	1.5	1.8	1.8	2.2	1.8	2.2	2.2	2.7
6.0	-	0.8	0.8	1.0	1.1	1.2	1.2	1.4	1.2	1.5	1.5	1.8	1.5	1.6	1.8	2.0

Refer NZS3604:2011 Tables 14.14 and A14.14  
 \* For definition of loaded dimension see 1.3 in NZS3604:2011. Members 90 mm thick may be substituted with built-up members sized and nailed in accordance with 2.4.4.7.

## Lintel supporting roof, wall and floor for 3 kPa floor loads

	Loaded dimension* of lintel (m)	Maximum span for lintel sizes listed below (m)															
		Width x thickness (mm)															
		140 x 70		140 x 90		190 x 70		190 x 90		240 x 70		240 x 90		290 x 70		290 x 90	
		SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10
Light roof Light wall	2	0.9	1.1	1.1	1.3	1.2	1.4	1.5	1.8	1.5	1.8	1.9	2.2	1.9	2.2	2.3	2.7
	3	0.8	1.0	1.0	1.2	1.2	1.4	1.4	1.7	1.5	1.8	1.8	2.2	1.8	2.2	2.2	2.6
	4	0.8	1.0	1.0	1.2	1.1	1.4	1.4	1.7	1.4	1.7	1.8	2.1	1.8	2.1	2.1	2.6
	6	0.8	0.9	1.0	1.2	1.1	1.3	1.3	1.6	1.4	1.7	1.7	2.0	1.7	2.0	2.0	2.4
Light roof Medium wall	2	0.8	1.0	1.0	1.2	1.2	1.4	1.4	1.7	1.5	1.8	1.8	2.2	1.8	2.2	2.2	2.6
	3	0.8	1.0	1.0	1.2	1.1	1.4	1.4	1.7	1.4	1.7	1.8	2.1	1.8	2.1	2.1	2.6
	4	0.7	0.9	0.9	1.1	1.0	1.2	1.3	1.5	1.3	1.6	1.6	1.9	1.6	1.8	1.9	2.3
	6	0.7	0.8	0.9	1.0	1.0	1.2	1.2	1.4	1.2	1.5	1.5	1.8	1.5	1.6	1.8	2.1
Heavy roof Light wall	2	0.8	1.0	1.0	1.2	1.1	1.4	1.4	1.7	1.5	1.8	1.8	2.1	1.8	2.1	2.2	2.6
	3	0.8	1.0	1.0	1.2	1.1	1.3	1.3	1.6	1.4	1.7	1.7	2.1	1.7	2.0	2.1	2.5
	4	0.8	0.9	0.9	1.1	1.1	1.3	1.3	1.6	1.3	1.6	1.6	2.0	1.6	1.9	2.0	2.4
	6	0.7	0.9	0.9	1.1	1.0	1.2	1.2	1.4	1.3	1.5	1.5	1.8	1.5	1.7	1.9	2.2
Heavy roof Medium wall	2	0.8	1.0	1.0	1.2	1.1	1.3	1.4	1.6	1.4	1.7	1.7	2.1	1.7	2.1	2.1	2.5
	3	0.8	0.9	1.0	1.1	1.1	1.3	1.3	1.6	1.4	1.6	1.7	2.0	1.7	2.0	2.0	2.4
	4	0.7	0.9	0.9	1.1	1.0	1.2	1.3	1.5	1.3	1.6	1.6	1.9	1.6	1.8	1.9	2.3
	6	0.7	0.8	0.9	1.0	1.0	1.2	1.2	1.4	1.2	1.5	1.5	1.8	1.5	1.6	1.8	2.1

Refer NZS3604:2011 Tables 14.12 and A14.12

NOTE – (1) Determine the loaded dimension of the lintel at floor level and the loaded dimension of the wall above the lintel at roof level and use the greater value in this table.

(2) Members 90 mm thick may be substituted with built-up members sized and nailed in accordance with 2.4.4.7.

# Studs in loadbearing walls for all wind zones for 3 kPa floor loads

Wind zone	Loaded dimension* of wall		Stud sizes for maximum length (height) of: (m)																		
			2.4						2.7						3.0						
			At maximum stud spacing (mm) of:						At maximum stud spacing (mm) of:						At maximum stud spacing (mm) of:						
			300		400		600		300		400		600		300		400		600		
	(m)		(mm x mm) (width x thickness)																		
SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10
<b>(a) Lower of 2 storeys or subfloor beneath 1 storey</b>																					
Extra high	2.0	2.0	-	90 x 35	90 x 45	90 x 35	90 x 70	90 x 70	90 x 45	90 x 35	90 x 70	90 x 45	90 x 90	90 x 70	90 x 70	90 x 45	90 x 70	90 x 70	140 x 45	90 x 90	
	4.0	4.0	-	90 x 35	90 x 45	90 x 35	90 x 70	90 x 70	90 x 45	90 x 35	90 x 70	90 x 45	90 x 90	90 x 70	90 x 70	90 x 45	90 x 70	90 x 70	140 x 45	90 x 90	
	6.0	6.0	-	90 x 35	90 x 70	90 x 35	90 x 70	90 x 70	90 x 45	90 x 35	90 x 70	90 x 45	90 x 90	90 x 70	90 x 70	90 x 45	90 x 90	90 x 70	140 x 45	90 x 90	
Very high	2.0	2.0	-	90 x 35	90 x 45	90 x 35	90 x 70	90 x 45	90 x 35	90 x 35	90 x 70	90 x 35	90 x 70	90 x 70	90 x 45	90 x 35	90 x 70	90 x 45	90 x 90	90 x 70	
	4.0	4.0	-	90 x 35	90 x 45	90 x 35	90 x 70	90 x 45	90 x 35	90 x 35	90 x 70	90 x 35	90 x 90	90 x 70	90 x 45	90 x 35	90 x 70	90 x 45	90 x 90	90 x 70	
	6.0	6.0	-	90 x 35	90 x 45	90 x 35	90 x 70	90 x 45	90 x 35	90 x 35	90 x 70	90 x 45	90 x 90	90 x 70	90 x 70	90 x 45	90 x 35	90 x 70	90 x 45	140 x 45	90 x 70
High	2.0	2.0	-	90 x 35	90 x 35	90 x 35	90 x 45	90 x 35	90 x 35	90 x 35	90 x 45	90 x 35	90 x 70	90 x 45	90 x 35	90 x 35	90 x 70	90 x 35	90 x 70	90 x 70	
	4.0	4.0	-	90 x 35	90 x 35	90 x 35	90 x 70	90 x 35	90 x 35	90 x 35	90 x 45	90 x 35	90 x 70	90 x 45	90 x 35	90 x 35	90 x 70	90 x 45	90 x 90	90 x 70	
	6.0	6.0	-	90 x 35	90 x 35	90 x 35	90 x 70	90 x 45	90 x 35	90 x 35	90 x 45	90 x 35	90 x 70	90 x 70	90 x 45	90 x 35	90 x 70	90 x 45	90 x 90	90 x 70	
Medium	2.0	2.0	-	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 45	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 70	90 x 45	
	4.0	4.0	-	90 x 35	90 x 35	90 x 35	90 x 45	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 45	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 70	90 x 45	
	6.0	6.0	-	90 x 35	90 x 35	90 x 35	90 x 45	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 70	90 x 45	90 x 35	90 x 35	90 x 35	90 x 35	90 x 70	90 x 45	
Low	2.0	2.0	-	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 45	90 x 35	
	4.0	4.0	-	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 45	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 45	90 x 35	
	6.0	6.0	-	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 45	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 70	90 x 45	
Internal walls for all wind zones	2.0	2.0	-	70 x 45	70 x 45	70 x 45	90 x 35	70 x 45	70 x 45	70 x 45	70 x 45	70 x 45	90 x 35	90 x 35	70 x 45	70 x 45	90 x 35	70 x 45	90 x 45	90 x 35	
	4.0	4.0	-	70 x 45	70 x 45	70 x 45	90 x 35	70 x 45	70 x 45	70 x 45	70 x 45	70 x 45	90 x 45	90 x 35	70 x 45	70 x 45	90 x 35	70 x 45	90 x 45	90 x 35	
	6.0	6.0	-	70 x 45	70 x 45	70 x 45	90 x 35	70 x 45	90 x 35	70 x 45	90 x 35	70 x 45	90 x 45	90 x 35	70 x 45	70 x 45	90 x 35	70 x 45	90 x 70	90 x 45	

Refer NZS3604:2011 Tables 14.10 and A14.10

\* For definition of loaded dimension see 1.3 in NZS3604:2011.

NOTE -

- (1) Determine the loaded dimension of the wall (lower or subfloor as appropriate) at floor level and the loaded dimension of the walls above at floor and roof levels and use the greatest value in this table.
- (2) Studs 90 mm thick may be replaced with studs of 35 mm and 45 mm thickness respectively, provided they are placed at no more than one half the spacing required for the 90 mm stud they are replacing.
- (3) Studs 90 mm thick may be substituted with built-up (or laminated) members sized in accordance with 8.5.1.2 and nailed together in accordance with 2.4.4.7

## Studs in loadbearing walls for all wind zones for 3 kPa floor loads

Wind zone	Loaded dimension* of wall		Stud sizes for maximum length (height) of: (m)																		
			2.4						2.7						3.0						
			At maximum stud spacing (mm) of:						At maximum stud spacing (mm) of:						At maximum stud spacing (mm) of:						
			300		400		600		300		400		600		300		400		600		
			(m)		(mm x mm) (width x thickness)																
SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10
<b>(b) Subfloor beneath 2 storeys</b>																					
<b>Extra high</b>	3.0	2.0	90 x 45	90 x 35	90 x 70	90 x 35	90 x 70	90 x 70	90 x 45	90 x 35	90 x 70	90 x 45	90 x 90	90 x 70	90 x 70	90 x 45	90 x 90	90 x 70	140 x 45	90 x 90	
	4.5	4.0	90 x 45	90 x 35	90 x 70	90 x 35	90 x 90	90 x 70	90 x 45	90 x 35	90 x 70	90 x 45	90 x 90	90 x 70	90 x 70	90 x 45	90 x 90	90 x 70	140 x 45	90 x 90	
	6.0	6.0	90 x 45	90 x 35	90 x 70	90 x 45	90 x 90	90 x 70	90 x 70	90 x 70	90 x 35	90 x 70	90 x 45	90 x 70	140 x 45	90 x 70	90 x 70	90 x 45	90 x 90	90 x 70	140 x 45
<b>Very high</b>	3.0	2.0	90 x 35	90 x 35	90 x 45	90 x 35	90 x 70	90 x 45	90 x 45	90 x 35	90 x 70	90 x 45	90 x 90	90 x 70	90 x 70	90 x 45	90 x 35	90 x 70	90 x 45	140 x 45	90 x 70
	4.5	4.0	90 x 35	90 x 35	90 x 45	90 x 35	90 x 70	90 x 70	90 x 45	90 x 35	90 x 70	90 x 45	90 x 90	90 x 70	90 x 70	90 x 45	90 x 35	90 x 70	90 x 45	140 x 45	90 x 70
	6.0	6.0	90 x 35	90 x 35	90 x 45	90 x 35	90 x 70	90 x 70	90 x 45	90 x 35	90 x 70	90 x 45	90 x 90	90 x 70	90 x 70	90 x 45	90 x 70	90 x 45	90 x 70	90 x 45	140 x 45
<b>High</b>	3.0	2.0	90 x 35	90 x 35	90 x 35	90 x 35	90 x 70	90 x 45	90 x 35	90 x 35	90 x 45	90 x 35	90 x 70	90 x 70	90 x 45	90 x 35	90 x 70	90 x 45	90 x 45	90 x 90	90 x 70
	4.5	4.0	90 x 35	90 x 35	90 x 35	90 x 35	90 x 70	90 x 45	90 x 35	90 x 35	90 x 45	90 x 35	90 x 70	90 x 70	90 x 45	90 x 35	90 x 70	90 x 45	90 x 45	90 x 90	90 x 70
	6.0	6.0	90 x 35	90 x 35	90 x 35	90 x 35	90 x 70	90 x 45	90 x 35	90 x 35	90 x 45	90 x 35	90 x 70	90 x 70	90 x 45	90 x 35	90 x 70	90 x 45	90 x 45	90 x 90	90 x 70
<b>Medium</b>	3.0	2.0	90 x 35	90 x 35	90 x 35	90 x 35	90 x 45	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 70	90 x 45	90 x 35	90 x 35	90 x 45	90 x 35	90 x 35	90 x 70	90 x 45
	4.5	4.0	90 x 35	90 x 35	90 x 35	90 x 35	90 x 45	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 70	90 x 45	90 x 35	90 x 35	90 x 45	90 x 35	90 x 35	90 x 70	90 x 70
	6.0	6.0	90 x 35	90 x 35	90 x 35	90 x 35	90 x 45	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 70	90 x 45	90 x 35	90 x 35	90 x 45	90 x 35	90 x 35	90 x 70	90 x 70
<b>Low</b>	-	2.0	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 45	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 70	90 x 45
	-	4.0	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 45	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 70	90 x 45
	-	6.0	90 x 35	90 x 35	90 x 35	90 x 35	90 x 45	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 45	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 70	90 x 70
<b>Internal walls for all wind zones</b>	3.0	2.0	70 x 45	70 x 45	70 x 45	70 x 45	90 x 35	90 x 35	70 x 45	70 x 45	90 x 35	90 x 35	90 x 45	90 x 35	90 x 35	70 x 45	90 x 35	90 x 35	90 x 35	90 x 70	90 x 45
	4.5	4.0	70 x 45	70 x 45	70 x 45	70 x 45	90 x 35	90 x 35	70 x 45	70 x 45	90 x 35	90 x 35	90 x 45	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 70	90 x 45
	6.0	6.0	70 x 45	70 x 45	90 x 35	70 x 45	90 x 45	90 x 35	90 x 35	90 x 35	70 x 45	90 x 35	90 x 35	90 x 45	90 x 35	90 x 35	90 x 35	90 x 35	90 x 35	90 x 70	90 x 70

Refer NZS3604:2011 Tables 14.10 and A14.10

\* For definition of loaded dimension see 1.3 in NZS3604:2011.

NOTE –

(1) Determine the loaded dimension of the wall (lower or subfloor as appropriate) at floor level and the loaded dimension of the walls above at floor and roof levels and use the greatest value in this table.

(2) Studs 90 mm thick may be replaced with studs of 35 mm and 45 mm thickness respectively, provided they are placed at no more than one half the spacing required for the 90 mm stud they are replacing.

(3) Studs 90 mm thick may be substituted with built-up (or laminated) members sized in accordance with 8.5.1.2 and nailed together in accordance with 2.4.4.7

## Subfloor jack studs, 3 kPa floor loads

Maximum span of bearers (m)	Jack stud (mm x mm)	Maximum jack stud height for loaded dimension* of the bearer of: (m)					
		2.0		3.5		5.0	
		SG8	SG10	SG8	SG10	SG8	SG10
<b>Supporting 1 storey</b>							
1.30	90 x 70	2.0	2.2	1.9	2.0	1.7	1.8
	90 x 90	3.0	3.2	2.8	2.9	2.6	2.7
1.65	90 x 70	1.8	1.9	1.6	1.7	1.5	1.6
	90 x 90	2.7	2.8	2.4	2.6	2.3	2.4
2.00	90 x 70	1.6	1.7	1.5	1.6	1.3	1.4
	90 x 90	2.4	2.5	2.2	2.3	2.0	2.1
<b>Supporting 2 storeys</b>							
1.30	90 x 70	1.7	1.8	1.5	1.6	1.3	1.4
	90 x 90	2.6	2.7	2.3	2.4	2.0	2.2
1.65	90 x 70	1.5	1.6	1.3	1.4	1.1	1.2
	90 x 90	2.3	2.4	2.0	2.1	1.7	1.9
2.00	90 x 70	1.3	1.4	1.1	1.2	0.6	0.9
	90 x 90	2.0	2.2	1.8	1.9	1.5	1.6
<b>Supporting 3 storeys</b>							
1.30	90 x 70	1.5	1.6	1.3	1.4	1.0	1.1
	90 x 90	2.3	2.4	1.9	2.1	1.7	1.8
1.65	90 x 70	1.3	1.4	0.9	1.1	–	0.6
	90 x 90	2.0	2.1	1.7	1.8	1.3	1.5
2.00	90 x 70	1.1	1.2	–	0.6	–	–
	90 x 90	1.8	1.9	1.4	1.5	–	1.0

Refer NZS3604:2011 Tables 14.5 and A14.5

\* For definition of loaded dimension see 1.3 in NZS3604:2011. NOTE – Substitution with built-up members is not allowed.

## Top and bottom plates for loadbearing walls, 3 kPa floor loads


Plate size (mm x mm)	Maximum loaded dimension* of wall supporting floor	Maximum spacing of trusses or rafters (mm)	Light roof						Heavy roof						
			Stud spacing (mm)												
			300		400		600		300		400		600		
			Maximum loaded dimension* of wall (m)												
			SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	
<b>(a) Top plate of lower wall of 2 storeys and subfloor supporting 1 storey</b>															
90 x 45		1.5	400	6.0	6.0	6.0	6.0	4.1	6.0	6.0	6.0	6.0	6.0	2.3	5.7
			450	6.0	6.0	6.0	6.0	2.7	6.0	6.0	6.0	5.5	6.0	1.5	4.4
			600	6.0	6.0	4.9	6.0	-	3.5	6.0	6.0	2.8	5.9	-	2.0
		3.0	400	6.0	6.0	4.8	6.0	-	2.8	6.0	6.0	2.7	6.0	-	1.5
			450	6.0	6.0	2.6	6.0	-	-	5.9	6.0	-	5.5	-	-
			600	3.7	4.1	-	3.2	-	-	2.0	2.3	-	1.7	-	-
90 x 45 plus 90 x 35 (or greater) or 2/90 x 45	**  or	1.5	400	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	
			450	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	
			600	6.0	6.0	6.0	6.0	5.7	6.0	6.0	6.0	6.0	6.0	3.3	6.0
		3.0	400	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	3.5	6.0
			450	6.0	6.0	6.0	6.0	3.7	6.0	6.0	6.0	6.0	6.0	2.1	6.0
			600	6.0	6.0	6.0	6.0	-	5.1	6.0	6.0	4.3	6.0	-	2.9

Refer NZS3604:2011 Tables 14.15 and A14.15

\* For definition of loaded dimension see 1.3 in NZS3604:2011. \*\* Use of 90 x 35 shall be limited by the requirements of 8.7.4.2. NOTE – Substitution with built-up members is not allowed.



## Top and bottom plates for loadbearing walls, 3 kPa floor loads

Plate size (mm x mm)	Maximum loaded dimension* of wall supporting floor	Maximum spacing of trusses or rafters (mm)	Light roof						Heavy roof							
			Stud spacing (mm)													
			300		400		600		300		400		600			
			Maximum loaded dimension* of wall (m)													
			SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10		
<b>(b) Bottom plate of lower wall of 2 storeys and subfloor supporting 1 storey</b>																
90 x 45		1.5	400	6.0	6.0	6.0	6.0	2.0	6.0	6.0	6.0	4.5	6.0	-	4.0	
			450	6.0	6.0	5.7	6.0	-	5.0	6.0	6.0	3.3	6.0	-	2.9	
			600	5.2	6.0	1.8	5.7	-	-	2.6	5.6	-	3.0	-	-	
		3.0	400	6.0	6.0	-	6.0	-	-	3.9	6.0	-	4.9	-	-	
			450	4.1	6.0	-	5.5	-	-	2.3	6.0	-	2.3	-	-	
			600	-	5.3	-	-	-	-	-	2.8	-	-	-	-	
90 x 70		1.5	400	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	
			450	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	
			600	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.3	6.0
		3.0	400	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
			450	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	4.9	6.0
			600	6.0	6.0	6.0	6.0	2.2	6.0	6.0	6.0	6.0	6.0	6.0	-	6.0

Refer NZS3604:2011 Tables 14.15 and A14.15

\* For definition of loaded dimension see 1.3 in NZS3604:2011. \*\* Use of 90 x 35 shall be limited by the requirements of 8.7.4.2. NOTE – Substitution with built-up members is not allowed.

## Top and bottom plates for loadbearing walls, 3 kPa floor loads

Plate size (mm x mm)		Maximum loaded dimension* of wall supporting floor	Maximum spacing of trusses or rafters (mm)	Light roof						Heavy roof							
				Stud spacing (mm)													
				300	400	600	300	400	600	300	400	600					
				Maximum loaded dimension* of wall (m)													
				SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10	SG8	SG10		
<b>(c) Top plate of subfloor wall supporting 2 storeys</b>																	
90 x 45 plus 90 x 35 or greater or 2/90 x 45	** 	1.5	400	6.0	6.0	6.0	6.0	5.1	6.0	6.0	6.0	6.0	6.0	6.0	2.9	6.0	
			450	6.0	6.0	6.0	6.0	2.7	6.0	6.0	6.0	6.0	6.0	6.0	6.0	-	6.0
			600	6.0	6.0	6.0	6.0	-	4.1	6.0	6.0	3.7	6.0	6.0	6.0	-	2.3
			3.0	400	6.0	6.0	4.1	6.0	-	-	6.0	6.0	2.3	6.0	-	-	
				450	6.0	6.0	-	6.0	-	-	6.0	6.0	-	6.0	-	-	
				600	2.2	6.0	-	2.5	-	-	-	3.9	-	-	-	-	
90 x 70		1.5	400	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0		
			450	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0		
			600	6.0	6.0	6.0	6.0	4.1	6.0	6.0	6.0	6.0	6.0	6.0	2.3	6.0	
				3.0	400	6.0	6.0	6.0	6.0	-	6.0	6.0	6.0	6.0	6.0	-	6.0
					450	6.0	6.0	6.0	6.0	-	6.0	6.0	6.0	5.0	5.0	-	3.9
					600	-	-	-	-	-	-	-	-	-	-	-	-

Refer NZS3604:2011 Tables 14.15 and A14.15

\* For definition of loaded dimension see 1.3 in NZS3604:2011. \*\* Use of 90 x 35 shall be limited by the requirements of 8.7.4.2. NOTE – Substitution with built-up members is not allowed.