

RESULTS TABLES - 142mm ROOF PANEL SPANS

Equivalent to Table 10.1 from NZS3604

Maximum spans based on horizontal span dimensions (m) assuming OSB3 cassette joiners.

Roof weights, wind and snow zones as defined in NZS3604. 1.5kPa and 2.0kPa snow loads refer Section 15 Tables

Roof Angle 10 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.82	2.64
High/Very High Wind		2.59	2.69
Extra High Wind		2.12	2.37

Roof Angle 15 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.85	2.69
High/Very High Wind		2.58	2.69
Extra High Wind		2.12	2.37

Roof Angle 20 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.85	2.77
High/Very High Wind		2.59	2.77
Extra High Wind		2.12	2.37

Roof Angle 25 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.83	2.83
High/Very High Wind		2.59	2.83
Extra High Wind		2.12	2.37

Roof Angle 30 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.78	2.69
High/Very High Wind		2.59	2.69
Extra High Wind		2.12	2.37

Roof Angle 35 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.67	2.54
High/Very High Wind		2.59	2.54
Extra High Wind		2.12	2.37

Maximum spans based on horizontal span dimensions (m) assuming 100 x 110 SG8 timber joiners.

Roof weights, wind and snow zones as defined in NZS3604. 1.5kPa and 2.0kPa snow loads refer Section 15 Tables

Roof Angle 10 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.10	3.00
High/Very High Wind		3.00	3.00
Extra High Wind		2.40	2.70

Roof Angle 15 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.10	3.10
High/Very High Wind		3.00	3.10
Extra High Wind		2.40	2.70

Roof Angle 20 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.10	3.10
High/Very High Wind		3.00	3.10
Extra High Wind		2.40	2.70

Roof Angle 25 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.10	3.00
High/Very High Wind		3.00	3.00
Extra High Wind		2.40	2.70

Roof Angle 30 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.10	2.90
High/Very High Wind		3.00	2.90
Extra High Wind		2.40	2.70

Roof Angle 35 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.90	2.70
High/Very High Wind		3.00	2.70
Extra High Wind		2.40	2.70

Maximum spans based on horizontal span dimensions (m) assuming 140 x 90 SG8 rafter and 2/110 x 50 SG8 timber joiners.

Roof weights, wind and snow zones as defined in NZS3604. 1.5kPa and 2.0kPa snow loads refer Section 15 Tables

Roof Angle 10 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.50	3.00
High/Very High Wind		3.70	3.00
Extra High Wind		3.00	3.00

Roof Angle 15 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.60	3.10
High/Very High Wind		3.70	3.10
Extra High Wind		3.00	3.10

Roof Angle 20 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.60	3.20
High/Very High Wind		3.70	3.20
Extra High Wind		3.00	3.20

Roof Angle 25 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.60	3.30
High/Very High Wind		3.70	3.30
Extra High Wind		3.00	3.30

Roof Angle 30 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.50	3.20
High/Very High Wind		3.70	3.20
Extra High Wind		3.00	3.20

Roof Angle 35 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.40	3.00
High/Very High Wind		3.70	3.00
Extra High Wind		3.00	3.00

RESULTS TABLES - 142mm ROOF PANEL SPANS with 1.5kPa GROUND SNOW LOAD

Equivalent to Table 15.6 from NZS3604

Maximum spans based on horizontal span dimensions (m) assuming OSB3 cassette joiners.

Roof weights, wind and snow zones as defined in NZS3604

Roof Angle 10 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.37	
High/Very High Wind			
Extra High Wind			

Roof Angle 15 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.41	
High/Very High Wind			
Extra High Wind			

Roof Angle 20 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.43	
High/Very High Wind			
Extra High Wind			

Roof Angle 25 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.43	2.71
High/Very High Wind			2.71
Extra High Wind			

Roof Angle 30 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.42	2.68
High/Very High Wind			2.68
Extra High Wind			

Roof Angle 35 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.39	
High/Very High Wind			
Extra High Wind			

Maximum spans based on horizontal span dimensions (m) assuming 100 x 110 SG8 timber joiners.

Roof weights, wind and snow zones as defined in NZS3604

Roof Angle 10 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.60	3.02
High/Very High Wind			3.02
Extra High Wind			

Roof Angle 15 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.69	3.03
High/Very High Wind			3.03
Extra High Wind			

Roof Angle 20 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.72	3.01
High/Very High Wind			3.01
Extra High Wind			

Roof Angle 25 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.72	2.97
High/Very High Wind			2.97
Extra High Wind			

Roof Angle 30 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.71	2.91
High/Very High Wind			2.91
Extra High Wind			

Roof Angle 35 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.68	
High/Very High Wind			
Extra High Wind			

Maximum spans based on horizontal span dimensions (m) assuming 140 x 90 SG8 rafter and 2/110 x 50 SG8 timber joiners.

Roof weights, wind and snow zones as defined in NZS3604

Roof Angle 10 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.04	
High/Very High Wind			
Extra High Wind			

Roof Angle 15 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.09	
High/Very High Wind			
Extra High Wind			

Roof Angle 20 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.12	
High/Very High Wind			
Extra High Wind			

Roof Angle 25 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.12	3.29
High/Very High Wind			3.29
Extra High Wind			3.29

Roof Angle 30 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.11	3.23
High/Very High Wind			3.23
Extra High Wind			3.23

Roof Angle 35 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.07	
High/Very High Wind			
Extra High Wind			

Snow load does not govern, use Table 10.1

RESULTS TABLES - 142mm ROOF PANEL SPANS with 2.0kPa GROUND SNOW LOAD

Equivalent to Table 15.6 from NZS3604

Maximum spans based on horizontal span dimensions (m) assuming OSB3 cassette joiners.

Roof weights, wind and snow zones as defined in NZS3604

Roof Angle 10 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.04	2.60
High/Very High Wind			2.60
Extra High Wind			

Roof Angle 15 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.09	2.61
High/Very High Wind			2.61
Extra High Wind			

Roof Angle 20 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.12	2.60
High/Very High Wind			2.60
Extra High Wind			

Roof Angle 25 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.14	2.58
High/Very High Wind			2.58
Extra High Wind			

Roof Angle 30 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.14	2.54
High/Very High Wind			2.54
Extra High Wind			

Roof Angle 35 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.13	2.48
High/Very High Wind			2.48
Extra High Wind			

Maximum spans based on horizontal span dimensions (m) assuming 100 x 110 SG8 timber joiners.

Roof weights, wind and snow zones as defined in NZS3604

Roof Angle 10 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.29	2.81
High/Very High Wind			2.81
Extra High Wind			

Roof Angle 15 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.35	2.83
High/Very High Wind			2.83
Extra High Wind			

Roof Angle 20 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.38	2.82
High/Very High Wind			2.82
Extra High Wind			

Roof Angle 25 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.40	2.80
High/Very High Wind			2.80
Extra High Wind			

Roof Angle 30 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.40	2.76
High/Very High Wind			2.76
Extra High Wind			

Roof Angle 35 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.40	2.70
High/Very High Wind			2.70
Extra High Wind			2.70

Maximum spans based on horizontal span dimensions (m) assuming 140 x 90 SG8 rafter and 2/110 x 50 SG8 timber joiners.

Roof weights, wind and snow zones as defined in NZS3604

Roof Angle 10 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.65	
High/Very High Wind		3.65	
Extra High Wind			

Roof Angle 15 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.71	3.13
High/Very High Wind			3.13
Extra High Wind			3.13

Roof Angle 20 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.75	3.13
High/Very High Wind			3.13
Extra High Wind			3.13

Roof Angle 25 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.77	3.10
High/Very High Wind			3.10
Extra High Wind			3.10

Roof Angle 30 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.77	3.05
High/Very High Wind			3.05
Extra High Wind			3.05

Roof Angle 35 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.76	2.99
High/Very High Wind			2.99
Extra High Wind			2.99

Snow load does not govern, use Table 10.1

RESULTS TABLES - 172mm ROOF PANEL SPANS

Equivalent to Table 10.1 from NZS3604

Maximum spans based on horizontal span dimensions (m) assuming OSB3 cassette joiners.

Roof weights, wind and snow zones as defined in NZS3604. 1.5kPa and 2.0kPa snow loads refer Section 15 Tables

Roof Angle 10 deg		Heavy Roof
	Light Roof	
Light/Medium Wind	4.20	3.10
High/Very High Wind	3.20	3.10
Extra High Wind	2.60	2.90

Roof Angle 15 deg		Heavy Roof
	Light Roof	
Light/Medium Wind	4.20	3.20
High/Very High Wind	3.20	3.20
Extra High Wind	2.60	2.90

Roof Angle 20 deg		Heavy Roof
	Light Roof	
Light/Medium Wind	4.20	3.20
High/Very High Wind	3.20	3.20
Extra High Wind	2.60	2.90

Roof Angle 25 deg		Heavy Roof
	Light Roof	
Light/Medium Wind	4.20	3.10
High/Very High Wind	3.20	3.10
Extra High Wind	2.60	2.90

Roof Angle 30 deg		Heavy Roof
	Light Roof	
Light/Medium Wind	4.10	2.90
High/Very High Wind	3.20	2.90
Extra High Wind	2.60	2.90

Roof Angle 35 deg		Heavy Roof
	Light Roof	
Light/Medium Wind	4.00	2.70
High/Very High Wind	3.20	2.70
Extra High Wind	2.60	2.00

Maximum spans based on horizontal span dimensions (m) assuming 140 x 110 SG8 timber joiners.

Roof weights, wind and snow zones as defined in NZS3604. 1.5kPa and 2.0kPa snow loads refer Section 15 Tables

Roof Angle 10 deg		Heavy Roof
	Light Roof	
Light/Medium Wind	4.50	3.60
High/Very High Wind	3.70	3.60
Extra High Wind	3.00	3.40

Roof Angle 15 deg		Heavy Roof
	Light Roof	
Light/Medium Wind	4.50	3.60
High/Very High Wind	3.70	3.60
Extra High Wind	3.00	3.40

Roof Angle 20 deg		Heavy Roof
	Light Roof	
Light/Medium Wind	4.60	3.50
High/Very High Wind	3.70	3.50
Extra High Wind	3.00	3.40

Roof Angle 25 deg		Heavy Roof
	Light Roof	
Light/Medium Wind	4.60	3.40
High/Very High Wind	3.70	3.40
Extra High Wind	3.00	3.40

Roof Angle 30 deg		Heavy Roof
	Light Roof	
Light/Medium Wind	4.50	3.20
High/Very High Wind	3.70	3.20
Extra High Wind	3.00	3.20

Roof Angle 35 deg		Heavy Roof
	Light Roof	
Light/Medium Wind	4.40	3.00
High/Very High Wind	3.70	3.00
Extra High Wind	3.00	3.00

Maximum spans based on horizontal span dimensions (m) assuming 190 x 90 SG8 rafter and 2/140 x 50 SG8 timber joiners.

Roof weights, wind and snow zones as defined in NZS3604. 1.5kPa and 2.0kPa snow loads refer Section 15 Tables

Roof Angle 10 deg		Heavy Roof
	Light Roof	
Light/Medium Wind	5.00	3.70
High/Very High Wind	4.50	3.70
Extra High Wind	3.70	3.70

Roof Angle 15 deg		Heavy Roof
	Light Roof	
Light/Medium Wind	5.10	3.70
High/Very High Wind	4.50	3.70
Extra High Wind	3.70	3.70

Roof Angle 20 deg		Heavy Roof
	Light Roof	
Light/Medium Wind	5.10	3.80
High/Very High Wind	4.50	3.80
Extra High Wind	3.70	3.80

Roof Angle 25 deg		Heavy Roof
	Light Roof	
Light/Medium Wind	5.00	3.70
High/Very High Wind	4.50	3.70
Extra High Wind	3.70	3.70

Roof Angle 30 deg		Heavy Roof
	Light Roof	
Light/Medium Wind	5.00	3.50
High/Very High Wind	4.50	3.50
Extra High Wind	3.60	3.50

Roof Angle 35 deg		Heavy Roof
	Light Roof	
Light/Medium Wind	4.80	3.30
High/Very High Wind	4.50	3.30
Extra High Wind	3.40	3.30

RESULTS TABLES - 172mm ROOF PANEL SPANS with 1.5kPa GROUND SNOW LOAD

Equivalent to Table 15.6 from NZS3604

Maximum spans based on horizontal span dimensions (m) assuming OSB3 cassette joiners.

Roof weights, wind and snow zones as defined in NZS3604

Roof Angle 10 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.70	3.10
High/Very High Wind			3.10
Extra High Wind			

Roof Angle 15 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.70	3.00
High/Very High Wind			3.00
Extra High Wind			

Roof Angle 20 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.80	3.00
High/Very High Wind			3.00
Extra High Wind			

Roof Angle 25 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.80	3.00
High/Very High Wind			3.00
Extra High Wind			

Roof Angle 30 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.70	2.90
High/Very High Wind			2.90
Extra High Wind			2.90

Roof Angle 35 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.70	
High/Very High Wind			
Extra High Wind			

Maximum spans based on horizontal span dimensions (m) assuming 140 x 110 SG8 timber joiners.

Roof weights, wind and snow zones as defined in NZS3604

Roof Angle 10 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.00	3.30
High/Very High Wind			3.30
Extra High Wind			3.30

Roof Angle 15 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.00	3.30
High/Very High Wind			3.30
Extra High Wind			3.30

Roof Angle 20 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.10	3.30
High/Very High Wind			3.30
Extra High Wind			3.30

Roof Angle 25 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.10	3.20
High/Very High Wind			3.20
Extra High Wind			3.20

Roof Angle 30 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.10	3.20
High/Very High Wind			3.20
Extra High Wind			3.20

Roof Angle 35 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.00	3.00
High/Very High Wind			3.00
Extra High Wind			3.00

Maximum spans based on horizontal span dimensions (m) assuming 190 x 90 SG8 rafter and 2/140 x 50 SG8 timber joiners.

Roof weights, wind and snow zones as defined in NZS3604

Roof Angle 10 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.40	3.70
High/Very High Wind		4.40	3.70
Extra High Wind			3.70

Roof Angle 15 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.50	3.70
High/Very High Wind		4.50	3.70
Extra High Wind			3.70

Roof Angle 20 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.50	3.60
High/Very High Wind		4.50	3.60
Extra High Wind			3.60

Roof Angle 25 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.50	3.60
High/Very High Wind		4.50	3.60
Extra High Wind			3.60

Roof Angle 30 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.50	3.50
High/Very High Wind		4.50	3.50
Extra High Wind			3.50

Roof Angle 35 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.50	3.30
High/Very High Wind		4.50	3.30
Extra High Wind			3.30

Snow load does not govern, use Table 10.1

RESULTS TABLES - 172mm ROOF PANEL SPANS with 2.0kPa GROUND SNOW LOAD

Equivalent to Table 15.6 from NZS3604

Maximum spans based on horizontal span dimensions (m) assuming OSB3 cassette joiners.

Roof weights, wind and snow zones as defined in NZS3604

Roof Angle 10 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.40	2.80
High/Very High Wind			2.80
Extra High Wind			2.80

Roof Angle 15 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.40	2.80
High/Very High Wind			2.80
Extra High Wind			2.80

Roof Angle 20 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.40	2.80
High/Very High Wind			2.80
Extra High Wind			2.80

Roof Angle 25 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.40	2.80
High/Very High Wind			2.80
Extra High Wind			2.80

Roof Angle 30 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.40	2.80
High/Very High Wind			2.80
Extra High Wind			2.80

Roof Angle 35 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.40	2.70
High/Very High Wind			2.70
Extra High Wind			2.70

Maximum spans based on horizontal span dimensions (m) assuming 140 x 110 SG8 timber joiners.

Roof weights, wind and snow zones as defined in NZS3604

Roof Angle 10 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.60	3.10
High/Very High Wind		3.60	3.10
Extra High Wind			3.10

Roof Angle 15 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.70	3.10
High/Very High Wind		3.70	3.10
Extra High Wind			3.10

Roof Angle 20 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.70	3.10
High/Very High Wind		3.70	3.10
Extra High Wind			3.10

Roof Angle 25 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.70	3.10
High/Very High Wind		3.70	3.10
Extra High Wind			3.10

Roof Angle 30 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.70	3.00
High/Very High Wind		3.70	3.00
Extra High Wind			3.00

Roof Angle 35 deg		Light Roof	Heavy Roof
Light/Medium Wind		3.70	2.90
High/Very High Wind		3.70	2.90
Extra High Wind			2.90

Maximum spans based on horizontal span dimensions (m) assuming 190 x 90 SG8 rafter and 2/140 x 50 SG8 timber joiners.

Roof weights, wind and snow zones as defined in NZS3604

Roof Angle 10 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.00	3.40
High/Very High Wind		4.00	3.40
Extra High Wind			3.40

Roof Angle 15 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.10	3.40
High/Very High Wind		4.10	3.40
Extra High Wind			3.40

Roof Angle 20 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.10	3.40
High/Very High Wind		4.10	3.40
Extra High Wind			3.40

Roof Angle 25 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.10	3.40
High/Very High Wind		4.10	3.40
Extra High Wind			3.40

Roof Angle 30 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.10	3.30
High/Very High Wind		4.10	3.30
Extra High Wind			3.30

Roof Angle 35 deg		Light Roof	Heavy Roof
Light/Medium Wind		4.10	3.30
High/Very High Wind		4.10	3.30
Extra High Wind			3.30

Snow load does not govern, use Table 10.1