

LINTELS SUPPORTING LIGHT ROOF & 1.5 kPa FLOOR

| Section Size dxb (mm) | Lintel Span (m) Max. | Tributary Width of Floor Supported (m) | | | | | | | | | |
|--------------------------|-------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | Maximum Tributary Width of Roof (m) at Span between 2m & 6m | | | | | | | | | |
| 180 x 65 | 2 | 5.3 | 2.7 | | | | | | | | |
| 225 x 65 | 2 | | 8.9 | 5.5 | 2.1 | | | | | | |
| 225 x 90 | 2 | | | | | 4.7 | 1.3 | | | | |
| 270 x 90 | 2 | | | | | | | | 5.3 | 1.9 | |
| 225 x 90 | 3 | 3.6 | 1.3 | | | | | | | | |
| 270 x 90 | 3 | 8.1 | 5.8 | 3.4 | 0.6 | | | | | | |
| 315 x 90 | 3 | | | | 6.2 | 2.8 | | | | | |
| 360 x 90 | 3 | | | | | | 5.5 | 2.3 | | | |
| 405 x 90 | 3 | | | | | | | | | 4.1 | 1.7 |
| 315 x 90 | 4 | 4.4 | 2.1 | | | | | | | | |
| 360 x 90 | 4 | 8 | 5.6 | 3.3 | 0.8 | | | | | | |
| 405 x 90 | 4 | | | | 4.6 | 1.2 | | | | | |
| 450 x 90 | 4 | | | | | 5.5 | 2.9 | | | | |
| 495 x 90 | 4 | | | | | | | 5.1 | 2.6 | | |
| 540 x 90 | 4 | | | | | | | | | | 2.9 |
| 360 x 90 | 5 | 2.7 | | | | | | | | | |
| 405 x 90 | 5 | 5 | 2.6 | | | | | | | | |
| 450 x 90 | 5 | 7.8 | 5.5 | 3.2 | 0.6 | | | | | | |
| 495 x 90 | 5 | | | 6.7 | 3.6 | 1 | | | | | |
| 540 x 90 | 5 | | | | 6.8 | 4.2 | 1.8 | | | | |
| 585 x 90 | 5 | | | | | | 5.3 | 2.8 | 0.5 | | |
| 630 x 90 | 5 | | | | | | | | 4.2 | 1.9 | |
| 450 x 90 | 6 | 3.3 | 0.9 | | | | | | | | |
| 495 x 90 | 6 | 5.3 | 3 | 0.6 | | | | | | | |
| 540 x 90 | 6 | | 5.4 | 3.1 | 0.9 | | | | | | |
| 585 x 90 | 6 | | | 5.9 | 3.4 | 0.9 | | | | | |
| 630 x 90 | 6 | | | | 5.9 | 3.5 | 1 | | | | |

Floor Live Load = 1.5kPa, Dead Load = 0.5kPa
 Roof Type = Light
 Wind Speed range = Low-High
 Deflection Limit = Span / 400
Glulam Grade = GL8

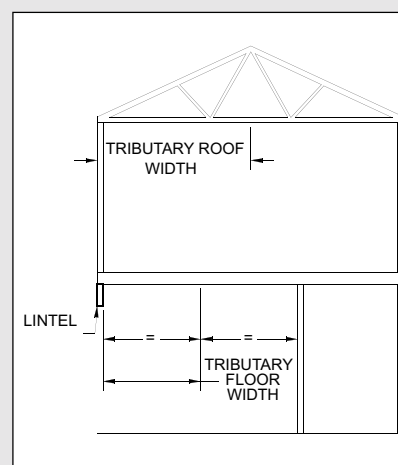
Lintels Assumed Fully Restrained

Instructions

To use this table you will need to know:

- The Span of the Lintel Beam.
- The Maximum Tributary Width of floor.

1. Under the 'Lintel Span (m) Max' column choose the block that meets or exceeds the required span.
2. Then select the 'Tributary Width of Floor Supported' column that meets or exceeds the required width.
3. Read down this column until you find a figure that meets or exceeds the Maximum Tributary Width of Roof.
4. The section size of the Glulam beam can now be read off the left hand column.



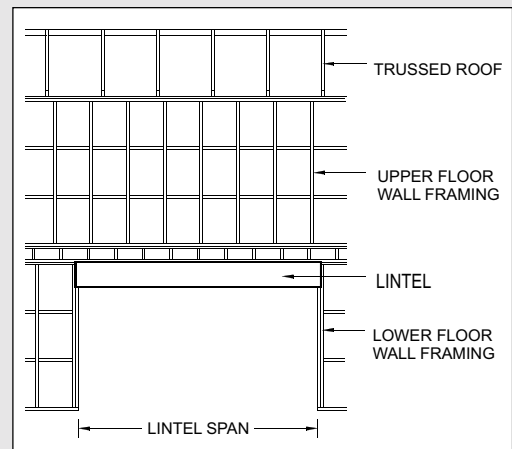
LINTELS SUPPORTING HEAVY ROOF & 1.5 kPa FLOOR

| Section Size dxb (mm) | Lintel Span (m) Max. | Tributary Width of Floor Supported (m) | | | | | | | | | |
|--------------------------|-------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | Maximum Tributary Width of Roof (m) at Span between 2m & 6m | | | | | | | | | |
| 180 x 65 | 2 | 2.9 | 1.6 | | | | | | | | |
| 225 x 65 | 2 | 7.1 | 5.7 | 3.5 | 1.3 | | | | | | |
| 225 x 90 | 2 | | | 7.4 | 5.2 | 3 | 0.8 | | | | |
| 270 x 90 | 2 | | | | | | | 5.6 | 3.4 | 1.2 | |
| 225 x 90 | 3 | 2 | 0.7 | | | | | | | | |
| 270 x 90 | 3 | 4.5 | 3.2 | 1.9 | | | | | | | |
| 315 x 90 | 3 | | 6.8 | 5.5 | 4 | 1.8 | | | | | |
| 360 x 90 | 3 | | | | | 5.8 | 3.6 | 1.5 | | | |
| 405 x 90 | 3 | | | | | | | 5.9 | 4.3 | 2.7 | 1.1 |
| 315 x 90 | 4 | 2.5 | 1.2 | | | | | | | | |
| 360 x 90 | 4 | 4.5 | 3.2 | 1.8 | 0.5 | | | | | | |
| 405 x 90 | 4 | 7 | 5.7 | 4.4 | 3 | 0.8 | | | | | |
| 450 x 90 | 4 | | | | 5.7 | 3.5 | 1.8 | | | | |
| 495 x 90 | 4 | | | | | 6.6 | 4.9 | 3.3 | 1.7 | | |
| 540 x 90 | 4 | | | | | | | 6.6 | 5 | 3.4 | 1.9 |
| 585 x 90 | 4 | | | | | | | | | | 5.4 |
| 360 x 90 | 5 | 1.5 | | | | | | | | | |
| 405 x 90 | 5 | 2.8 | 1.5 | | | | | | | | |
| 450 x 90 | 5 | 4.4 | 3.1 | 1.8 | | | | | | | |
| 495 x 90 | 5 | 6.4 | 5.1 | 3.8 | 2.3 | 0.6 | | | | | |
| 540 x 90 | 5 | | 7.5 | 6.2 | 4.4 | 2.7 | 1.1 | | | | |
| 585 x 90 | 5 | | | | 6.7 | 5 | 3.4 | 1.8 | | | |
| 630 x 90 | 5 | | | | | | 5.8 | 4.3 | 2.7 | 1.2 | |
| 450 x 90 | 6 | 1.8 | 0.5 | | | | | | | | |
| 495 x 90 | 6 | 3 | 1.6 | | | | | | | | |
| 540 x 90 | 6 | 4.3 | 3 | 1.7 | 0.6 | | | | | | |
| 585 x 90 | 6 | 5.9 | 4.6 | 3.3 | 2.2 | 0.5 | | | | | |
| 630 x 90 | 6 | 7.8 | 6.5 | 5.2 | 3.8 | 2.2 | 0.7 | | | | |
| 675 x 135 | 6 | | | | | | | 6.5 | 5 | 3.6 | |

Floor Live Load = 1.5kPa, Dead Load = 0.5kPa
 Roof Type = Heavy
 Wind Speed range = Low-High
 Deflection Limit = Span / 400
Glulam Grade = GL8

Lintels Assumed Fully Restrained

Example:
 For a Rafter Lintel spanning 5m carrying a tributary heavy roof of 3m
 and a tributary floor width of 2m.
 Span of Glulam Lintel = 5
 Maximum Tributary Width of Floor = 2
 Maximum Tributary Width of Roof = 3
 Therefore Section Size = 450 x 90



LINTELS SUPPORTING LIGHT ROOF & 2.0 kPa FLOOR

| Section Size dxb (mm) | Lintel Span (m) Max. | Tributary Width of Floor Supported (m) | | | | | | | | | |
|--------------------------|-------------------------|---|-----|-----|-----|-----|-----|-----|------|------|-----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | Maximum Tributary Width of Roof (m) at Span between 2m & 6m | | | | | | | | | |
| 180 x 65 | 2 | 4.8 | 0.9 | | | | | | | | |
| 225 x 65 | 2 | | 7.1 | 2.8 | | | | | | | |
| 225 x 90 | 2 | | | 8.8 | 4.5 | | | | | | |
| 270 x 90 | 2 | | | | | | 6.6 | 2.3 | | | |
| 315 x 90 | 2 | | | | | | | | | 6.3 | 2 |
| 360 x 90 | 2 | | | | | | | | | | |
| 225 x 90 | 3 | 3.1 | | | | | | | | | |
| 270 x 90 | 3 | 7.6 | 4.9 | 1.3 | | | | | | | |
| 315 x 90 | 3 | | | 6.9 | 2.6 | | | | | | |
| 360 x 90 | 3 | | | | 8.7 | 4.4 | | | | | |
| 405 x 90 | 3 | | | | | | 6.9 | 2.9 | | | |
| 450 x 90 | 3 | | | | | | | | 7.3 | 4.2 | 1.2 |
| 495 x 90 | 3 | | | | | | | | | | 9.5 |
| 315 x 90 | 4 | 4 | 1.2 | | | | | | | | |
| 360 x 90 | 4 | 7.5 | 4.7 | 1.5 | | | | | | | |
| 405 x 90 | 4 | | 9.3 | 5.3 | 1 | | | | | | |
| 450 x 90 | 4 | | | 9.6 | 5.3 | 0.9 | | | | | |
| 495 x 90 | 4 | | | | 9.9 | 5.6 | 2.4 | | | | |
| 540 x 90 | 4 | | | | | | 7.5 | 4.4 | 1.3 | | |
| 585 x 90 | 4 | | | | | | | 9.9 | 6.8 | 3.8 | 0.9 |
| 630 x 90 | 4 | | | | | | | | | 9.7 | 6.8 |
| 360 x 90 | 5 | 2.2 | | | | | | | | | |
| 405 x 90 | 5 | 4.5 | 1.7 | | | | | | | | |
| 450 x 90 | 5 | 7.4 | 4.6 | 1.3 | | | | | | | |
| 495 x 90 | 5 | | 8.1 | 4.3 | | | | | | | |
| 540 x 90 | 5 | | | 7.5 | 3.2 | | | | | | |
| 585 x 90 | 5 | | | | 6.7 | 3.5 | | | | | |
| 630 x 90 | 5 | | | | | 7.2 | 4.2 | 1.2 | | | |
| 450 x 90 | 6 | 2.8 | | | | | | | | | |
| 495 x 90 | 6 | 4.8 | 2.1 | | | | | | | | |
| 540 x 90 | 6 | 7.3 | 4.5 | 1.1 | | | | | | | |
| 585 x 90 | 6 | | 7.4 | 3.5 | | | | | | | |
| 630 x 90 | 6 | | | 6.1 | 2.5 | | | | | | |
| 675 x 135 | 6 | | | | | | | 7.2 | 4.3 | 1.5 | |
| 720 x 135 | 6 | | | | | | | | 8.7 | 5.9 | 3.1 |
| 765 x 135 | 6 | | | | | | | | 13.4 | 10.6 | 7.8 |

Floor Live Load = 2.0kPa, Dead Load = 0.5kPa
 Roof Type = Light
 Wind Speed range = Low-High
 Deflection Limit = Span / 400
Glulam Grade = GL8

Lintels Assumed Fully Restrained

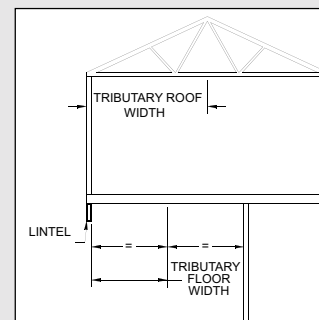
Instructions

To use this table you will need to know:

■ The Span of the Lintel Beam.

■ The Maximum Tributary Width of floor.

1. Under the 'Lintel Span (m) Max' column choose the block that meets or exceeds the required span.
2. Then select the 'Tributary Width of Floor Supported' column that meets or exceeds the required width.
3. Read down this column until you find a figure that meets or exceeds the Maximum Tributary Width of Roof.
4. The section size of the Glulam beam can now be read off the left hand column.



LINTELS SUPPORTING HEAVY ROOF & 2.0 kPa FLOOR

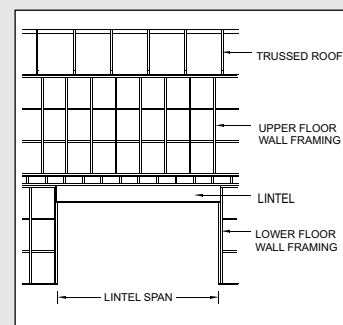
| Section Size dxb (mm) | Lintel Span (m) Max. | Tributary Width of Floor Supported (m) | | | | | | | | | |
|--------------------------|-------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | Maximum Tributary Width of Roof (m) at Span between 2m & 6m | | | | | | | | | |
| 180 x 65 | 2 | 2.7 | 0.6 | | | | | | | | |
| 225 x 65 | 2 | 6.9 | 4.6 | 1.8 | | | | | | | |
| 225 x 90 | 2 | | | 5.7 | 2.9 | | | | | | |
| 270 x 90 | 2 | | | | | | 4.3 | 1.5 | | | |
| 315 x 90 | 2 | | | | | | | | | 4.1 | 1.3 |
| 225 x 90 | 3 | 1.7 | | | | | | | | | |
| 270 x 90 | 3 | 4.3 | 2.7 | 0.8 | | | | | | | |
| 315 x 90 | 3 | | 6.3 | 4.5 | 1.7 | | | | | | |
| 360 x 90 | 3 | | | | 5.6 | 2.8 | | | | | |
| 405 x 90 | 3 | | | | | | 4.5 | 1.9 | | | |
| 450 x 90 | 3 | | | | | | | | 4.7 | 2.7 | 0.7 |
| 315 x 90 | 4 | 2.2 | 0.7 | | | | | | | | |
| 360 x 90 | 4 | 4.2 | 2.6 | 0.9 | | | | | | | |
| 405 x 90 | 4 | 6.8 | 5.2 | 3.4 | 0.6 | | | | | | |
| 450 x 90 | 4 | | | 6.2 | 3.4 | 0.6 | | | | | |
| 495 x 90 | 4 | | | | 6.4 | 3.6 | 1.5 | | | | |
| 540 x 90 | 4 | | | | | | 4.8 | 2.8 | 0.8 | | |
| 585 x 90 | 4 | | | | | | | | 4.4 | 2.5 | 0.6 |
| 630 x 90 | 4 | | | | | | | | | | 4.4 |
| 360 x 90 | 5 | 1.2 | | | | | | | | | |
| 405 x 90 | 5 | 2.5 | 1 | | | | | | | | |
| 450 x 90 | 5 | 4.1 | 2.6 | 0.8 | | | | | | | |
| 495 x 90 | 5 | 6.1 | 4.6 | 2.7 | | | | | | | |
| 540 x 90 | 5 | | 7 | 4.8 | 2 | | | | | | |
| 585 x 90 | 5 | | | 7.1 | 4.3 | 2.2 | | | | | |
| 630 x 90 | 5 | | | | 6.7 | 4.7 | 2.7 | 0.7 | | | |
| 450 x 90 | 6 | 1.6 | | | | | | | | | |
| 495 x 90 | 6 | 2.7 | 1.1 | | | | | | | | |
| 540 x 90 | 6 | 4.1 | 2.5 | 0.7 | | | | | | | |
| 585 x 90 | 6 | 5.7 | 4.1 | 2.2 | | | | | | | |
| 630 x 90 | 6 | 7.6 | 6 | 3.9 | 1.6 | | | | | | |
| 675 x 135 | 6 | | | | | | 6.5 | 4.6 | 2.8 | 1 | |
| 720 x 135 | 6 | | | | | | | | 5.6 | 3.8 | 2 |
| 765 x 135 | 6 | | | | | | | | | | 5 |

Floor Live Load = 2.0kPa, Dead Load = 0.5kPa
 Roof Type = Heavy
 Wind Speed range = Low-High
 Deflection Limit = Span / 400
Glulam Grade = GL8

Lintels Assumed Fully Restrained

Example:
 For a Rafter Lintel spanning 5m carrying a tributary heavy roof of 3m and a tributary floor width of 2m.

Span of Glulam Lintel = 5
 Maximum Tributary Width of Floor = 2
 Maximum Tributary Width of Roof = 3
 Therefore Section Size = 450 x 90



LINTELS SUPPORTING LIGHT ROOF & 3.0 kPa FLOOR

| Section Size dxb (mm) | Lintel Span (m) Max. | Tributary Width of Floor Supported (m) | | | | | | | | | |
|--------------------------|-------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | Maximum Tributary Width of Roof (m) at Span between 2m & 6m | | | | | | | | | |
| 180 x 65 | 2 | 3.4 | | | | | | | | | |
| 225 x 65 | 2 | 9.6 | 3.4 | | | | | | | | |
| 225 x 90 | 2 | | 9.5 | 3.4 | | | | | | | |
| 270 x 90 | 2 | | | | 8 | 1.9 | | | | | |
| 315 x 90 | 2 | | | | | | 8.3 | 2.2 | | | |
| 360 x 90 | 2 | | | | | | | | 9.9 | 3.7 | |
| 225 x 90 | 3 | 2.2 | | | | | | | | | |
| 270 x 90 | 3 | 6.7 | 2 | | | | | | | | |
| 315 x 90 | 3 | | 7.6 | 1.5 | | | | | | | |
| 360 x 90 | 3 | | | 7.6 | 1.4 | | | | | | |
| 405 x 90 | 3 | | | | 8.3 | 2.2 | | | | | |
| 450 x 90 | 3 | | | | | | 3.6 | | | | |
| 495 x 90 | 3 | | | | | | | 6.3 | 1.8 | | |
| 540 x 90 | 3 | | | | | | | | | 6.6 | 2.4 |
| 315 x 90 | 4 | 3.1 | | | | | | | | | |
| 360 x 90 | 4 | 6.6 | 2.2 | | | | | | | | |
| 405 x 90 | 4 | | 6 | | | | | | | | |
| 450 x 90 | 4 | | | 4.1 | | | | | | | |
| 495 x 90 | 4 | | | 8.8 | 2.7 | | | | | | |
| 540 x 90 | 4 | | | | 7.8 | 1.6 | | | | | |
| 585 x 90 | 4 | | | | | 7.1 | 2.6 | | | | |
| 630 x 90 | 4 | | | | | | 8.5 | 4.2 | | | |
| 360 x 90 | 5 | 1.3 | | | | | | | | | |
| 405 x 90 | 5 | 3.6 | | | | | | | | | |
| 450 x 90 | 5 | 6.5 | 2 | | | | | | | | |
| 495 x 90 | 5 | 10 | 5 | | | | | | | | |
| 540 x 90 | 5 | | 8.2 | 2.1 | | | | | | | |
| 585 x 90 | 5 | | | 5.6 | | | | | | | |
| 630 x 90 | 5 | | | 9.3 | 3.2 | | | | | | |
| 675 x 135 | 5 | | | | | | | | 6.1 | 2.1 | |
| 720 x 135 | 5 | | | | | | | | | 8.5 | 4.6 |
| 450 x 90 | 6 | 1.9 | | | | | | | | | |
| 495 x 90 | 6 | 3.9 | | | | | | | | | |
| 540 x 90 | 6 | 6.4 | 1.8 | | | | | | | | |
| 585 x 90 | 6 | 9.2 | 4.2 | | | | | | | | |
| 630 x 90 | 6 | | 6.8 | 0.6 | | | | | | | |
| 675 x 135 | 6 | | | | 9.3 | 5 | 0.8 | | | | |
| 720 x 135 | 6 | | | | | 9.4 | 5.3 | 1.2 | | | |
| 765 x 135 | 6 | | | | | | 9.9 | 5.9 | 1.9 | | |
| 810 x 135 | 6 | | | | | | | | 6.9 | 3 | |
| 855 x 135 | 6 | | | | | | | | | 8.2 | 4.3 |

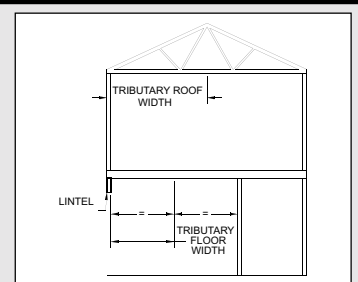
Floor Live Load = 3.0kPa, Dead Load = 0.5kPa
 Roof Type = Light
 Wind Speed range = Low-High
 Deflection Limit = Span / 400
Glulam Grade = GL8

Lintels Assumed Fully Restrained

Instructions

To use this table you will need to know:

- The Span of the Lintel Beam.
 - The Maximum Tributary Width of floor.
1. Under the 'Lintel Span (m) Max' column choose the block that meets or exceeds the required span.
 2. Then select the 'Tributary Width of Floor Supported' column that meets or exceeds the required width.
 3. Read down this column until you find a figure that meets or exceeds the Maximum Tributary Width of Roof.
 4. The section size of the Glulam beam can now be read off the left hand column.



LINTELS SUPPORTING HEAVY ROOF & 3.0 kPa FLOOR

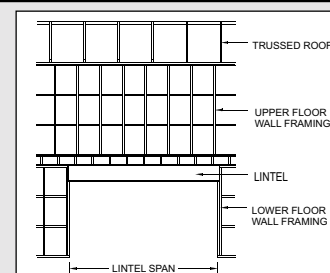
| Section Size dxb (mm) | Lintel Span (m) Max. | Tributary Width of Floor Supported (m) | | | | | | | | | |
|--------------------------|-------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | Maximum Tributary Width of Roof (m) at Span between 2m & 6m | | | | | | | | | |
| 180 x 65 | 2 | 2.2 | | | | | | | | | |
| 225 x 65 | 2 | 6.2 | 2.2 | | | | | | | | |
| 225 x 90 | 2 | 9.6 | 6.1 | 2.2 | | | | | | | |
| 270 x 90 | 2 | | | 9.1 | 5.2 | 1.2 | | | | | |
| 315 x 90 | 2 | | | | | 9.4 | 5.4 | 1.4 | | | |
| 360 x 90 | 2 | | | | | | | | 6.4 | 2.4 | |
| 405 x 90 | 2 | | | | | | | | | | 8.5 |
| 225 x 90 | 3 | 1.2 | | | | | | | | | |
| 270 x 90 | 3 | 3.8 | 1.3 | | | | | | | | |
| 315 x 90 | 3 | 7.3 | 4.9 | 0.9 | | | | | | | |
| 360 x 90 | 3 | | 8.8 | 4.9 | 0.9 | | | | | | |
| 405 x 90 | 3 | | | 9.3 | 5.3 | 1.4 | | | | | |
| 450 x 90 | 3 | | | | | 6.3 | 2.3 | | | | |
| 495 x 90 | 3 | | | | | | 7.7 | 4 | 1.2 | | |
| 540 x 90 | 3 | | | | | | | 9.9 | 7.1 | 4.3 | 1.5 |
| 585 x 90 | 3 | | | | | | | | | | 7.9 |
| 315 x 90 | 4 | 1.7 | | | | | | | | | |
| 360 x 90 | 4 | 3.7 | 1.4 | | | | | | | | |
| 405 x 90 | 4 | 6.3 | 3.9 | | | | | | | | |
| 450 x 90 | 4 | 9.5 | 6.6 | 2.7 | | | | | | | |
| 495 x 90 | 4 | | 9.7 | 5.7 | 1.7 | | | | | | |
| 540 x 90 | 4 | | | 9 | 5 | 1 | | | | | |
| 585 x 90 | 4 | | | | 8.6 | 4.6 | 1.7 | | | | |
| 630 x 90 | 4 | | | | | 8.4 | 5.5 | 2.7 | | | |
| 360 x 90 | 5 | 0.7 | | | | | | | | | |
| 405 x 90 | 5 | 2 | | | | | | | | | |
| 450 x 90 | 5 | 3.6 | 1.3 | | | | | | | | |
| 495 x 90 | 5 | 5.6 | 3.2 | | | | | | | | |
| 540 x 90 | 5 | 8 | 5.3 | 1.3 | | | | | | | |
| 585 x 90 | 5 | | 7.5 | 3.6 | | | | | | | |
| 630 x 90 | 5 | | 10 | 6 | 2 | | | | | | |
| 675 x 135 | 5 | | | | | | 9.2 | 6.6 | 3.9 | 1.3 | |
| 720 x 135 | 5 | | | | | | | | 8.1 | 5.5 | 2.9 |
| 765 x 135 | 5 | | | | | | | | | 9.9 | 7.3 |
| 450 x 90 | 6 | 1.1 | | | | | | | | | |
| 495 x 90 | 6 | 2.2 | | | | | | | | | |
| 540 x 90 | 6 | 3.6 | 1.1 | | | | | | | | |
| 585 x 90 | 6 | 5.2 | 2.7 | | | | | | | | |
| 630 x 90 | 6 | 7.1 | 4.4 | | | | | | | | |
| 675 x 135 | 6 | | | 9.3 | 6 | 3.2 | 0.5 | | | | |
| 720 x 135 | 6 | | | | 8.8 | 6.1 | 3.4 | 0.8 | | | |
| 765 x 135 | 6 | | | | | 9.1 | 6.4 | 3.8 | 1.2 | | |
| 810 x 135 | 6 | | | | | | 9.6 | 7 | 4.4 | 1.9 | |

Floor Live Load = 3.0kPa, Dead Load = 0.5kPa
 Roof Type = Heavy
 Wind Speed range = Low-High
 Deflection Limit = Span / 400
Glulam Grade = GL8

Lintels Assumed Fully Restrained

Example:
 For a Rafter Lintel spanning 5m carrying a tributary heavy roof of 3m and a tributary floor width of 2m.

Span of Glulam Lintel = 5
 Maximum Tributary Width of Floor = 2
 Maximum Tributary Width of Roof = 3
 Therefore Section Size = 495 x 90



LINTELS SUPPORTING ROOF ONLY (LIGHT ROOF)

| Section Size dxb (mm) | Span of Glulam Beam, L (m) | | | | | | | | | |
|---------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | |
| Maximum Tributary Width (m) at Span L | | | | | | | | | | |
| 135 x 65 | | 6.1 | 2.6 | 1.3 | | | | | | |
| 180 x 65 | | | 6.1 | 3.1 | 1.8 | 1.1 | | | | |
| 225 x 65 | | | | 6.1 | 3.5 | 2.2 | 1.5 | 1.0 | | |
| 225 x 90 | | | | 8.5 | 4.9 | 3.1 | 2.0 | 1.4 | | |
| 270 x 90 | | | | | 8.5 | 5.3 | 3.6 | 2.5 | 1.8 | |
| 315 x 90 | | | | | | 8.5 | 5.7 | 4.0 | 2.9 | |
| 360 x 90 | | | | | | | 8.5 | 6.0 | 4.3 | |
| 405 x 90 | | | | | | | | 8.5 | 6.2 | |
| 450 x 90 | | | | | | | | | 8.5 | |

Light Roof
Wind Speed = High
Deflection Limit = span / 400
Glulam Grade = GL8

Beams Fully Restrained

| Section Size dxb (mm) | Span Of Glulam Beam, L (m) | | | | | | | | | | |
|---------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | 5.5 | 6 | 6.5 | 7 | 7.5 | 8 | 8.5 | 9 | 9.5 | 10 | |
| Maximum Tributary Width (m) at Span L | | | | | | | | | | | |
| 270 x 90 | 1.2 | | | | | | | | | | |
| 315 x 90 | 2.2 | 1.6 | 1.1 | | | | | | | | |
| 360 x 90 | 3.2 | 2.5 | 1.8 | 1.4 | 1.0 | | | | | | |
| 405 x 90 | 4.6 | 3.6 | 2.8 | 2.1 | 1.6 | 1.2 | | | | | |
| 450 x 90 | 6.4 | 4.9 | 3.8 | 3.1 | 2.4 | 1.8 | 1.4 | 1.1 | | | |
| 495 x 90 | 8.5 | 6.5 | 5.1 | 4.1 | 3.3 | 2.6 | 2.1 | 1.6 | 1.3 | 1.0 | |
| 540 x 90 | | 8.5 | 6.7 | 5.3 | 4.3 | 3.5 | 2.8 | 2.3 | 1.8 | 1.4 | |
| 585 x 90 | | | 8.5 | 6.8 | 5.5 | 4.5 | 3.7 | 3.0 | 2.4 | 2.0 | |
| 630 x 90 | | | | 8.5 | 6.9 | 5.7 | 4.7 | 3.9 | 3.2 | 2.6 | |
| 675 x 135 | | | | | | | 8.8 | 7.4 | 6.1 | 5.1 | |
| 720 x 135 | | | | | | | | 9.0 | 7.6 | 6.3 | |
| 765 x 135 | | | | | | | | | 9.1 | 7.8 | |
| 810 x 135 | | | | | | | | | | 9.3 | |

Light Roof
Wind Speed = High
Deflection Limit = span / 400
Glulam Grade = GL8

Beams Fully Restrained

Instructions

To use this table you will need to know:

- The Span of the Lintel Beam.
- The Maximum Tributary Width of Roof.

1. Under the 'Span of Glulam Beam' heading, locate the column headed with a span that meets or exceeds the required.
2. Read down this column until you find a figure that meets or exceeds the Maximum Tributary Width of Roof.
3. The section size of the Glulam beam can now be read off the left hand column.



LINTELS SUPPORTING ROOF ONLY (HEAVY ROOF)

| Section Size dxb (mm) | Span of Glulam Beam, L (m) | | | | | | | |
|---------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|
| | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 |
| Maximum Tributary Width (m) at span L | | | | | | | | |
| 135 x 65 | 4.1 | 1.7 | | | | | | |
| 180 x 65 | 9.9 | 4.1 | 2.0 | 1.1 | | | | |
| 225 x 65 | | 8.1 | 4.1 | 2.3 | 1.4 | | | |
| 225 x 90 | | | 5.7 | 3.2 | 1.9 | 1.2 | | |
| 270 x 90 | | | 9.9 | 5.6 | 3.5 | 2.2 | 1.5 | 1.0 |
| 315 x 90 | | | | 9.1 | 5.6 | 3.7 | 2.5 | 1.7 |
| 360 x 90 | | | | | 8.5 | 5.6 | 3.8 | 2.7 |
| 405 x 90 | | | | | | 8.0 | 5.5 | 3.9 |
| 450 x 90 | | | | | | | 7.7 | 5.5 |
| 495 x 90 | | | | | | | | 7.4 |
| 540 x 90 | | | | | | | | 9.7 |

Heavy Roof
Wind Speed = High
Deflection Limit = Span/400
Glulam Grade = GL8

Beams Fully Restrained

| Section Size dxb (mm) | Span of Glulam Beam, L (m) | | | | | | | | | |
|---------------------------------------|----------------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|
| | 5.5 | 6 | 6.5 | 7 | 7.5 | 8 | 8.5 | 9 | 9.5 | 10 |
| Maximum Tributary Width (m) at span L | | | | | | | | | | |
| 315 x 90 | 1.2 | | | | | | | | | |
| 360 x 90 | 1.9 | 1.4 | 1.0 | | | | | | | |
| 405 x 90 | 2.9 | 2.1 | 1.6 | 1.2 | | | | | | |
| 450 x 90 | 4.0 | 3.0 | 2.3 | 1.8 | 1.4 | 1.0 | | | | |
| 495 x 90 | 5.5 | 4.1 | 3.1 | 2.4 | 1.9 | 1.5 | 1.2 | | | |
| 540 x 90 | 7.2 | 5.4 | 4.2 | 3.2 | 2.6 | 2.0 | 1.6 | 1.3 | 1.0 | |
| 585 x 90 | 9.2 | 7.0 | 5.4 | 4.2 | 3.3 | 2.7 | 2.1 | 1.7 | 1.4 | 1.1 |
| 630 x 90 | | 8.8 | 6.8 | 5.4 | 4.3 | 3.4 | 2.8 | 2.2 | 1.8 | 1.5 |
| 675 x 135 | | | | 10.0 | 8.0 | 6.5 | 5.2 | 4.3 | 3.5 | 2.9 |
| 720 x 135 | | | | | 9.8 | 8.0 | 6.5 | 5.3 | 4.4 | 3.7 |
| 765 x 135 | | | | | | 9.7 | 7.9 | 6.5 | 5.4 | 4.5 |
| 810 x 135 | | | | | | | 9.5 | 7.9 | 6.5 | 5.5 |
| 855 x 135 | | | | | | | | 9.4 | 7.8 | 6.5 |
| 900 x 135 | | | | | | | | | 9.2 | 7.8 |
| 945 x 135 | | | | | | | | | | 9.1 |

Heavy Roof
Wind Speed = High
Deflection Limit = Span / 400
Glulam Grade = GL8

Beams Fully Restrained

Example:
For a Rafter Lintel spanning 5m carrying a tributary light roof of 3m.

Span of Glulam Lintel = 5
Maximum Tributary Width of Roof = 3
Therefore Section Size = 360 x 90

