

Lintel Load Tables

The figures in our load tables denote working load, and therefore include a safety margin. All figures are in kN/m. The tables are generated on the Mr of the section properties.

To calculate the load carried by a unit and the ultimate load please see the example below:

e.g. Load for Type 0 at 1800 mm = 2.85 kN/m x 1.8 m = 5.13 kN working load;
for the ultimate load you would then take 5.13 kN x 1.5 = 7.695 kN ultimate load.

Calculations

All King Stone lintels can be provided with a full calculation sheet showing how we determined our published load tables, and a selection of our units has been tested empirically at a high profile university to substantiate the calculated figures. We ensure that all British and European standards are met throughout our design and manufacturing processes, and should you need to assure an engineer or architect that our designs meet specification, we can provide the necessary documentation.

Load tables are available for the following lintel ranges:

Standard, suitable for wall thicknesses [100 mm](#), [140 mm](#), [190 mm](#), and [215 mm](#).

Fairfaced, suitable for wall thicknesses [100 mm](#), [140 mm](#), [190 mm](#), and [215 mm](#).

Fairfaced fire, suitable for wall thicknesses [100 mm](#), [140 mm](#), [190 mm](#), and [215 mm](#).

Super Fire Rated, suitable for wall thicknesses [100 mm](#), [140 mm](#), and [215 mm](#).



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Standard Range		Type 0	Type 1	Type2	Type 3
Suitable Wall Thickness		100 mm	100 mm	100 mm	100 mm
Dimensions		100 mm x 100 mm	100 mm x 140 mm	100 mm x 215 mm	100 mm x 290 mm
Fire Resistance		30 min	30 min	30 min	30 min
Suitable for Foundation Use?		Yes	Yes	Yes	Yes
Length	Clear Span				
900 mm	700 mm	8.87 kN/m	37.31 kN/m	120.19 kN/m	153.66 kN/m
1100 mm	900 mm	7.13 kN/m	30.14 kN/m	97.20 kN/m	124.26 kN/m
1200 mm	1000 mm	5.95 kN/m	25.26 kN/m	79.25 kN/m	101.24 kN/m
1500 mm	1200 mm	5.49 kN/m	23.37 kN/m	67.84 kN/m	86.70 kN/m
1800 mm	1500 mm	4.08 kN/m	16.62 kN/m	45.27 kN/m	57.81 kN/m
2100 mm	1800 mm	2.85 kN/m	11.80 kN/m	32.26 kN/m	41.19 kN/m
2400 mm	2100 mm	2.08 kN/m	8.78 kN/m	24.10 kN/m	30.77 kN/m
2700 mm	2400 mm	1.57 kN/m	6.76 kN/m	18.65 kN/m	23.80 kN/m
3000 mm	2700 mm	1.21 kN/m	5.35 kN/m	14.83 kN/m	18.91 kN/m
3300 mm	3000 mm	0.95 kN/m	4.90 kN/m	12.05 kN/m	15.36 kN/m
Mserv		1.47 kN/m	6.28 kN/m	15.58 kN/m	19.91 kN/m
Lintel Weight		24.0 kg/m	33.6 kg/m	51.6 kg/m	69.6 kg/m

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Standard Range		Type 4	Type 5	Type 6
Suitable Wall Thickness		140 mm	140 mm	140 mm
Dimensions		140 mm x 140 mm	140 mm x 215 mm	140 mm x 290 mm
Fire Resistance		30 min	30 min	30 min
Suitable for Foundation Use?		Yes	Yes	Yes
Length	Clear Span			
900 mm	700 mm	46.59 kN/m	121.42 kN/m	153.38 kN/m
1100 mm	900 mm	37.62 kN/m	98.15 kN/m	123.98 kN/m
1200 mm	1000 mm	31.53 kN/m	82.33 kN/m	96.21 kN/m
1500 mm	1200 mm	29.16 kN/m	76.18 kN/m	96.21 kN/m
1800 mm	1500 mm	23.27 kN/m	58.52 kN/m	78.54 kN/m
2100 mm	1800 mm	16.53 kN/m	41.69 kN/m	66.31 kN/m
2400 mm	2100 mm	12.30 kN/m	31.14 kN/m	57.34 kN/m
2700 mm	2400 mm	9.47 kN/m	24.08 kN/m	44.55 kN/m
3000 mm	2700 mm	7.49 kN/m	19.13 kN/m	35.47 kN/m
3300 mm	3000 mm	6.04 kN/m	15.53 kN/m	28.86 kN/m
Mserv		8.85 kN/m	20.16 kN/m	37.00 kN/m
Lintel Weight		47.0 kg/m	72.2 kg/m	97.4 kg/m

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Standard Range		Type 7	Type 8	Type 9
Suitable Wall Thickness		190 mm	190 mm	190 mm
Dimensions		190 mm x 140 mm	190 mm x 215 mm	190 mm x 290 mm
Fire Resistance		30 min	30 min	30 min
Suitable for Foundation Use?		Yes	Yes	Yes
Length	Clear Span			
900 mm	700 mm	30.44 kN/m	236.67 kN/m	236.67 kN/m
1100 mm	900 mm	24.52 kN/m	191.40 kN/m	191.40 kN/m
1200 mm	1000 mm	20.50 kN/m	149.19 kN/m	149.19 kN/m
1500 mm	1200 mm	18.93 kN/m	127.77 kN/m	127.77 kN/m
1800 mm	1500 mm	15.37 kN/m	85.21 kN/m	85.21 kN/m
2100 mm	1800 mm	12.91 kN/m	60.73 kN/m	60.73 kN/m
2400 mm	2100 mm	11.10 kN/m	45.37 kN/m	45.37 kN/m
2700 mm	2400 mm	9.72 kN/m	35.10 kN/m	35.10 kN/m
3000 mm	2700 mm	8.24 kN/m	27.91 kN/m	27.91 kN/m
3300 mm	3000 mm	6.63 kN/m	22.67 kN/m	22.67 kN/m
Mserv		9.01 kN/m	29.33 kN/m	36.41 kN/m
Lintel Weight		63.8 kg/m	110.9 kg/m	149.6 kg/m

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Standard Range		Type 10	Type 11
Suitable Wall Thickness		215 mm	215 mm
Dimensions		215 mm x 215 mm	215 mm x 290 mm
Fire Resistance		30 min	30 min
Suitable for Foundation Use?		Yes	Yes
Length	Clear Span		
900 mm	700 mm	261.24 kN/m	261.24 kN/m
1100 mm	900 mm	211.27 kN/m	211.27 kN/m
1200 mm	1000 mm	149.57 kN/m	149.57 kN/m
1500 mm	1200 mm	128.08 kN/m	128.08 kN/m
1800 mm	1500 mm	85.37 kN/m	85.37 kN/m
2100 mm	1800 mm	60.81 kN/m	60.81 kN/m
2400 mm	2100 mm	45.40 kN/m	45.40 kN/m
2700 mm	2400 mm	35.10 kN/m	35.10 kN/m
3000 mm	2700 mm	27.88 kN/m	27.88 kN/m
3300 mm	3000 mm	22.62 kN/m	22.62 kN/m
Mserv		29.43 kN/m	38.43 kN/m
Lintel Weight		110.9 kg/m	149.6 kg/m

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Fairfaced Range		Type 0	Type 1	Type2	Type 3
Suitable Wall Thickness		100 mm	100 mm	100 mm	100 mm
Dimensions		100 mm x 100 mm	100 mm x 140 mm	100 mm x 215 mm	100 mm x 290 mm
Fire Resistance		30 min	30 min	30 min	30 min
Suitable for Foundation Use?		Yes	Yes	Yes	Yes
Length	Clear Span				
900 mm	700 mm	8.87 kN/m	37.31 kN/m	120.19 kN/m	153.66 kN/m
1100 mm	900 mm	7.13 kN/m	30.14 kN/m	97.20 kN/m	124.26 kN/m
1200 mm	1000 mm	5.95 kN/m	25.26 kN/m	79.25 kN/m	101.24 kN/m
1500 mm	1200 mm	5.49 kN/m	23.37 kN/m	67.84 kN/m	86.70 kN/m
1800 mm	1500 mm	4.08 kN/m	16.62 kN/m	45.27 kN/m	57.81 kN/m
2100 mm	1800 mm	2.85 kN/m	11.80 kN/m	32.26 kN/m	41.19 kN/m
2400 mm	2100 mm	2.08 kN/m	8.78 kN/m	24.10 kN/m	30.77 kN/m
2700 mm	2400 mm	1.57 kN/m	6.76 kN/m	18.65 kN/m	23.80 kN/m
3000 mm	2700 mm	1.21 kN/m	5.35 kN/m	14.83 kN/m	18.91 kN/m
3300 mm	3000 mm	0.95 kN/m	4.90 kN/m	12.05 kN/m	15.36 kN/m
Mserv		1.47 kN/m	6.28 kN/m	15.58 kN/m	19.91 kN/m
Lintel Weight		24.0 kg/m	33.6 kg/m	51.6 kg/m	69.6 kg/m

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Fairfaced Range		Type 4	Type 5	Type 6
Suitable Wall Thickness		140 mm	140 mm	140 mm
Dimensions		140 mm x 140 mm	140 mm x 215 mm	140 mm x 290 mm
Fire Resistance		30 min	30 min	30 min
Suitable for Foundation Use?		Yes	Yes	Yes
Length	Clear Span			
900 mm	700 mm	46.59 kN/m	121.42 kN/m	153.38 kN/m
1100 mm	900 mm	37.62 kN/m	98.15 kN/m	123.98 kN/m
1200 mm	1000 mm	31.53 kN/m	82.33 kN/m	96.21 kN/m
1500 mm	1200 mm	29.16 kN/m	76.18 kN/m	96.21 kN/m
1800 mm	1500 mm	23.27 kN/m	58.52 kN/m	78.54 kN/m
2100 mm	1800 mm	16.53 kN/m	41.69 kN/m	66.31 kN/m
2400 mm	2100 mm	12.30 kN/m	31.14 kN/m	57.34 kN/m
2700 mm	2400 mm	9.47 kN/m	24.08 kN/m	44.55 kN/m
3000 mm	2700 mm	7.49 kN/m	19.13 kN/m	35.47 kN/m
3300 mm	3000 mm	6.04 kN/m	15.53 kN/m	28.86 kN/m
Mserv		8.85 kN/m	20.16 kN/m	37.00 kN/m
Lintel Weight		47.0 kg/m	72.2 kg/m	97.4 kg/m

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Fairfaced Range		Type 7	Type 8	Type 9
Suitable Wall Thickness		190 mm	190 mm	190 mm
Dimensions		190 mm x 140 mm	190 mm x 215 mm	190 mm x 290 mm
Fire Resistance		30 min	30 min	30 min
Suitable for Foundation Use?		Yes	Yes	Yes
Length	Clear Span			
900 mm	700 mm	30.44 kN/m	236.67 kN/m	236.67 kN/m
1100 mm	900 mm	24.52 kN/m	191.40 kN/m	191.40 kN/m
1200 mm	1000 mm	20.50 kN/m	149.19 kN/m	149.19 kN/m
1500 mm	1200 mm	18.93 kN/m	127.77 kN/m	127.77 kN/m
1800 mm	1500 mm	15.37 kN/m	85.21 kN/m	85.21 kN/m
2100 mm	1800 mm	12.91 kN/m	60.73 kN/m	60.73 kN/m
2400 mm	2100 mm	11.10 kN/m	45.37 kN/m	45.37 kN/m
2700 mm	2400 mm	9.72 kN/m	35.10 kN/m	35.10 kN/m
3000 mm	2700 mm	8.24 kN/m	27.91 kN/m	27.91 kN/m
3300 mm	3000 mm	6.63 kN/m	22.67 kN/m	22.67 kN/m
Mserv		9.01 kN/m	29.33 kN/m	36.41 kN/m
Lintel Weight		63.8 kg/m	110.9 kg/m	149.6 kg/m

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Fairfaced Range		Type 10	Type 11
Suitable Wall Thickness		215 mm	215 mm
Dimensions		215 mm x 215 mm	215 mm x 290 mm
Fire Resistance		30 min	30 min
Suitable for Foundation Use?		Yes	Yes
Length	Clear Span		
900 mm	700 mm	261.24 kN/m	261.24 kN/m
1100 mm	900 mm	211.27 kN/m	211.27 kN/m
1200 mm	1000 mm	149.57 kN/m	149.57 kN/m
1500 mm	1200 mm	128.08 kN/m	128.08 kN/m
1800 mm	1500 mm	85.37 kN/m	85.37 kN/m
2100 mm	1800 mm	60.81 kN/m	60.81 kN/m
2400 mm	2100 mm	45.40 kN/m	45.40 kN/m
2700 mm	2400 mm	35.10 kN/m	35.10 kN/m
3000 mm	2700 mm	27.88 kN/m	27.88 kN/m
3300 mm	3000 mm	22.62 kN/m	22.62 kN/m
Mserv		29.43 kN/m	38.43 kN/m
Lintel Weight		110.9 kg/m	149.6 kg/m

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Fairfaced Fire Range		Type 12	Type 13	Type 14	Type 15
Suitable Wall Thickness		100 mm	100 mm	100 mm	100 mm
Dimensions		100 mm x 100 mm	100 mm x 140 mm	100 mm x 215 mm	100 mm x 290 mm
Fire Resistance		60 min	60 min	60 min	60 min
Suitable for Foundation Use?		Yes	Yes	Yes	Yes
Length	Clear Span				
900 mm	700 mm	8.87 kN/m	15.19 kN/m	96.15 kN/m	153.66 kN/m
1100 mm	900 mm	7.13 kN/m	12.24 kN/m	77.76 kN/m	124.26 kN/m
1200 mm	1000 mm	5.95 kN/m	10.22 kN/m	63.40 kN/m	101.24 kN/m
1500 mm	1200 mm	5.49 kN/m	9.44 kN/m	43.77 kN/m	86.70 kN/m
1800 mm	1500 mm	4.08 kN/m	7.66 kN/m	36.21 kN/m	57.81 kN/m
2100 mm	1800 mm	2.85 kN/m	7.37 kN/m	25.80 kN/m	41.19 kN/m
2400 mm	2100 mm	2.08 kN/m	6.43 kN/m	19.28 kN/m	30.77 kN/m
2700 mm	2400 mm	1.57 kN/m	5.53 kN/m	14.92 kN/m	23.80 kN/m
3000 mm	2700 mm	1.21 kN/m	4.84 kN/m	11.86 kN/m	18.91 kN/m
3300 mm	3000 mm	0.95 kN/m	3.87 kN/m	9.64 kN/m	15.36 kN/m
Mserv		1.47 kN/m	5.77 kN/m	14.26 kN/m	19.91 kN/m
Lintel Weight		24.0 kg/m	33.6 kg/m	51.6 kg/m	69.6 kg/m

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Fairfaced Fire Range		Type 16	Type 17	Type 18
Suitable Wall Thickness		140 mm	140 mm	140 mm
Dimensions		140 mm x 140 mm	140 mm x 215 mm	140 mm x 290 mm
Fire Resistance		90 min	90 min	90 min
Suitable for Foundation Use?		Yes	Yes	Yes
Length	Clear Span			
900 mm	700 mm	21.27 kN/m	104.64 kN/m	153.38 kN/m
1100 mm	900 mm	18.98 kN/m	84.57 kN/m	123.98 kN/m
1200 mm	1000 mm	17.13 kN/m	70.93 kN/m	96.21 kN/m
1500 mm	1200 mm	13.22 kN/m	65.62 kN/m	96.21 kN/m
1800 mm	1500 mm	10.73 kN/m	50.38 kN/m	78.54 kN/m
2100 mm	1800 mm	9.01 kN/m	35.86 kN/m	66.31 kN/m
2400 mm	2100 mm	7.74 kN/m	26.76 kN/m	57.34 kN/m
2700 mm	2400 mm	6.78 kN/m	20.67 kN/m	44.55 kN/m
3000 mm	2700 mm	5.41 kN/m	16.41 kN/m	35.47 kN/m
3300 mm	3000 mm	4.34 kN/m	13.30 kN/m	28.86 kN/m
Mserv		5.97 kN/m	17.39 kN/m	37.00 kN/m
Lintel Weight		47.0 kg/m	72.2 kg/m	97.4 kg/m

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Fairfaced Fire Range		Type 19	Type 20	Type 21
Suitable Wall Thickness		190 mm	190 mm	190 mm
Dimensions		190 mm x 140 mm	190 mm x 215 mm	190 mm x 290 mm
Fire Resistance		90 min	90 min	90 min
Suitable for Foundation Use?		Yes	Yes	Yes
Length	Clear Span			
900 mm	700 mm	30.44 kN/m	236.67 kN/m	236.67 kN/m
1100 mm	900 mm	24.52 kN/m	191.40 kN/m	191.40 kN/m
1200 mm	1000 mm	20.50 kN/m	149.19 kN/m	149.19 kN/m
1500 mm	1200 mm	18.93 kN/m	127.77 kN/m	127.77 kN/m
1800 mm	1500 mm	15.37 kN/m	85.21 kN/m	85.21 kN/m
2100 mm	1800 mm	12.91 kN/m	60.73 kN/m	60.73 kN/m
2400 mm	2100 mm	11.10 kN/m	45.37 kN/m	45.37 kN/m
2700 mm	2400 mm	9.72 kN/m	35.10 kN/m	35.10 kN/m
3000 mm	2700 mm	8.24 kN/m	27.91 kN/m	27.91 kN/m
3300 mm	3000 mm	6.63 kN/m	22.67 kN/m	22.67 kN/m
Mserv		9.01 kN/m	29.33 kN/m	36.41 kN/m
Lintel Weight		63.8 kg/m	110.9 kg/m	149.6 kg/m

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Fairfaced Fire Range		Type 22	Type 23
Suitable Wall Thickness		215 mm	215 mm
Dimensions		215 mm x 215 mm	215 mm x 290 mm
Fire Resistance		120 min	120 min
Suitable for Foundation Use?		Yes	Yes
Length	Clear Span		
900 mm	700 mm	205.01 kN/m	261.24 kN/m
1100 mm	900 mm	165.75 kN/m	211.27 kN/m
1200 mm	1000 mm	118.80 kN/m	149.57 kN/m
1500 mm	1200 mm	101.69 kN/m	128.08 kN/m
1800 mm	1500 mm	67.71 kN/m	85.37 kN/m
2100 mm	1800 mm	48.16 kN/m	60.81 kN/m
2400 mm	2100 mm	35.90 kN/m	45.40 kN/m
2700 mm	2400 mm	27.70 kN/m	35.10 kN/m
3000 mm	2700 mm	21.96 kN/m	27.88 kN/m
3300 mm	3000 mm	17.77 kN/m	22.62 kN/m
Mserv		23.42 kN/m	38.43 kN/m
Lintel Weight		110.9 kg/m	149.6 kg/m

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Super Fire Rated Range		Type 24	Type 25	Type 26	Type 27	Type 28	Type 29
Suitable Wall Thickness		100 mm	100 mm	140 mm	140 mm	140 mm	215 mm
Dimensions		100 mm x 140 mm	100 mm x 215 mm	140 mm x 140 mm	140 mm x 215 mm	140 mm x 215 mm	215 mm x 215 mm
Fire Resistance		120 min	120 min	120 min	120 min	240 min	240 min
Length	Clear Span						
900 mm	700 mm	11.40 kN/m	72.18 kN/m	15.96 kN/m	78.52 kN/m	62.81 kN/m	153.92 kN/m
1100 mm	900 mm	9.18 kN/m	58.37 kN/m	12.86 kN/m	63.46 kN/m	50.76 kN/m	124.45 kN/m
1200 mm	1000 mm	7.68 kN/m	47.57 kN/m	10.75 kN/m	53.23 kN/m	42.58 kN/m	89.13 kN/m
1500 mm	1200 mm	7.09 kN/m	40.74 kN/m	9.93 kN/m	49.25 kN/m	39.40 kN/m	76.30 kN/m
1800 mm	1500 mm	5.76 kN/m	27.18 kN/m	8.06 kN/m	37.82 kN/m	30.26 kN/m	50.82 kN/m
2100 mm	1800 mm	4.83 kN/m	19.38 kN/m	6.77 kN/m	26.94 kN/m	21.55 kN/m	36.17 kN/m
2400 mm	2100 mm	4.16 kN/m	14.48 kN/m	5.82 kN/m	20.11 kN/m	19.78 kN/m	26.97 kN/m
2700 mm	2400 mm	3.64 kN/m	11.21 kN/m	5.10 kN/m	15.54 kN/m	12.43 kN/m	20.82 kN/m
3000 mm	2700 mm	2.91 kN/m	8.92 kN/m	4.08 kN/m	12.34 kN/m	9.87 kN/m	16.52 kN/m
3300 mm	3000 mm	0.95 kN/m	7.4 kN/m	3.28 kN/m	10.01 kN/m	8.00 kN/m	13.38 kN/m
Lintel Weight		28.0 kg/m	43 kg/m	39.2 kg/m	60.02 kg/m	60.02 kg/m	92.45 kg/m

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