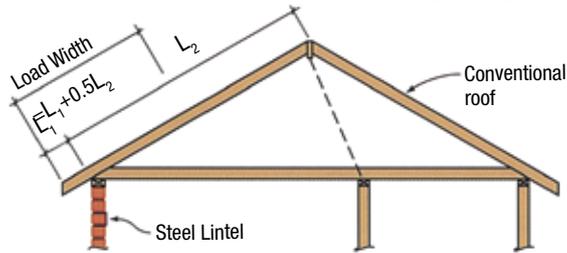
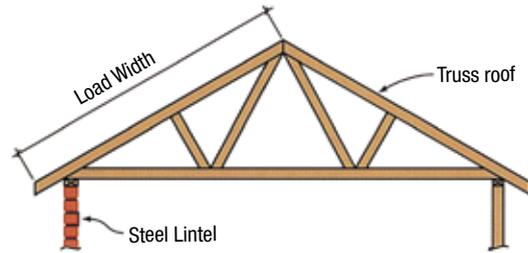


LINTELS SUPPORTING MASONRY

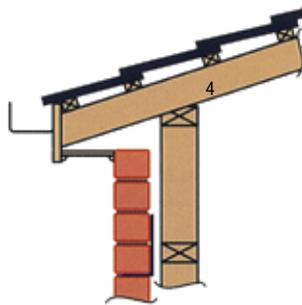
These span tables provide details for building houses using standard practices and traditional materials.

- ◆ Point loads are not covered by these tables.
- ◆ These tables cover normal loads (roof, ceiling and floors), which must be uniformly distributed, on the masonry over an opening.
- ◆ A minimum of three courses of brickwork are required over the opening for load bearing walls.
- ◆ For lintels to be used in a lower floor of two storey construction refer to a structural engineer.



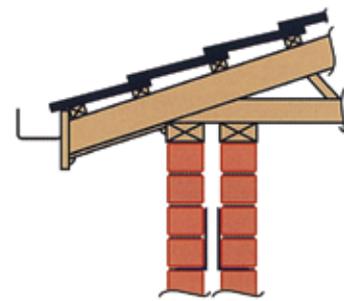
CONSTRUCTION TYPES

Illustrations of construction types A, B, C and D refer to the maximum clear span loading on the tables opposite.



Construction Type A:

Typical brick veneer construction with non load bearing brickwork and roof supported on internal timber or steel timber.



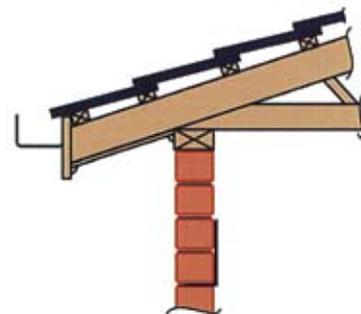
Construction Type B:

Cavity wall construction with timber or steel truss tiled roof supported equally on both leaves of brickwork.



Construction Type C:

Light weight metal sheet roof supported on single leaf of brickwork.



Construction Type D:

Tiled roof with timber or steel truss and sheet ceiling supported on single leaf of brickwork.

LINTEL SUPPORTING MASONRY - LOAD WIDTH UP TO 2400mm

Steel Lintel	Mass (kg/m)	Construction type			
		A	B	C	D
MAXIMUM CLEAR SPAN OF LINTEL (mm)					
75 x 75 x 6EA	6.81	2650	1930	1930	1570
# 75 x 100 x 6UA	7.98	2770	2050	2050	1690
# 75 x 100 x 8UA	10.3	2770	2170	2170	1810
90 x 90 x 6EA	8.22	3010	2410	2410	1930
100 x 75 x 6UA	7.98	3010	2530	2530	2170
90 x 90 x 8EA	10.6	3010	2530	2530	2170
100 x 100 x 6EA	9.16	3130	2530	2650	2170
100 x 100 x 8EA	11.8	3370	2770	2770	2410
125 x 75 x 6UA	9.16	3610	3010	3010	2650
125 x 75 x 8UA	11.8	3730	3130	3250	2770
150 x 90 x 8UA	14.3	4210	3610	3730	3250
150 x 100 x 10UA	18.0	4330	3850	3850	3490
Square Edge Flats					
75 x 8SEF		490	250		
75 x 10SEF		610	370	250	250

LINTEL SUPPORTING MASONRY - LOAD WIDTH FROM 2400mm TO 4800mm

Steel Lintel	Mass (kg/m)	Construction type			
		A	B	C	D
MAXIMUM CLEAR SPAN OF LINTEL (mm)					
75 x 75 x 6EA	6.81	2650	1690	1690	1330
# 75 x 100 x 6UA	7.98	2770	1690	1690	1330
# 75 x 100 x 8UA	10.3	2770	1810	1810	1450
90 x 90 x 6EA	8.22	3010	2050	2050	1570
100 x 75 x 6UA	7.98	3010	2170	2170	1690
90 x 90 x 8EA	10.6	3010	2170	2170	1810
100 x 100 x 6EA	9.16	3130	2290	2290	1810
100 x 100 x 8EA	11.8	3370	2410	2410	1930
125 x 75 x 6UA	9.16	3610	2530	2650	2050
125 x 75 x 8UA	11.8	3730	2770	2890	2410
150 x 90 x 8UA	14.3	4210	3370	3370	2770
150 x 100 x 10UA	8.0	4330	3490	3610	3010
Square Edge Flats					
75 x 8SEF		490	250		
75 x 10SEF		610	250	250	250

Section with short leg vertical for wide base support of brickwork.

Notes on Tables:

1. The tables apply for 300PLUS® steel only. For details of your nearest 300PLUS® structural steel supplier, call OneSteel Direct toll free on 1800 1 STEEL (1800 1 78335), or visit our website at www.onesteel.com
2. For Clear span \leq 1000mm, Min Bearing Length = 100mm, ie. Min Lintel Length = Clear Span + 200mm.
For Clear span > 1000mm, Min Bearing Length = 150mm, ie. Min Lintel Length = Clear Span + 300mm.
3. All lintels should be propped during brickwork construction to ensure level alignment.
4. The maximum rafter spacing should not be greater than 600mm.
5. There must be at least three courses of brickwork over clear span opening for all load bearing walls.
6. All loads are uniformly distributed (point loads are not allowed).
7. First dimension corresponds to the vertical lintel leg, eg. 75x100x6 lintel, 75mm leg vertical.



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This booklet has been compiled to assist builders, draftspersons and designers to specify and use OneSteel's range of structural steel. It contains span tables, surface treatment specifications and installation details on the use of OneSteel's structural steel products in various residential building applications.

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