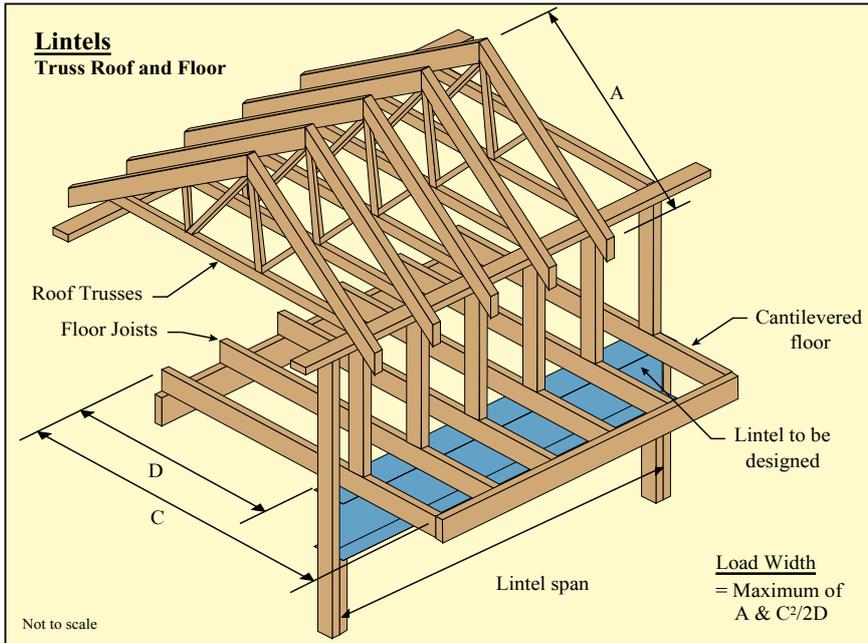


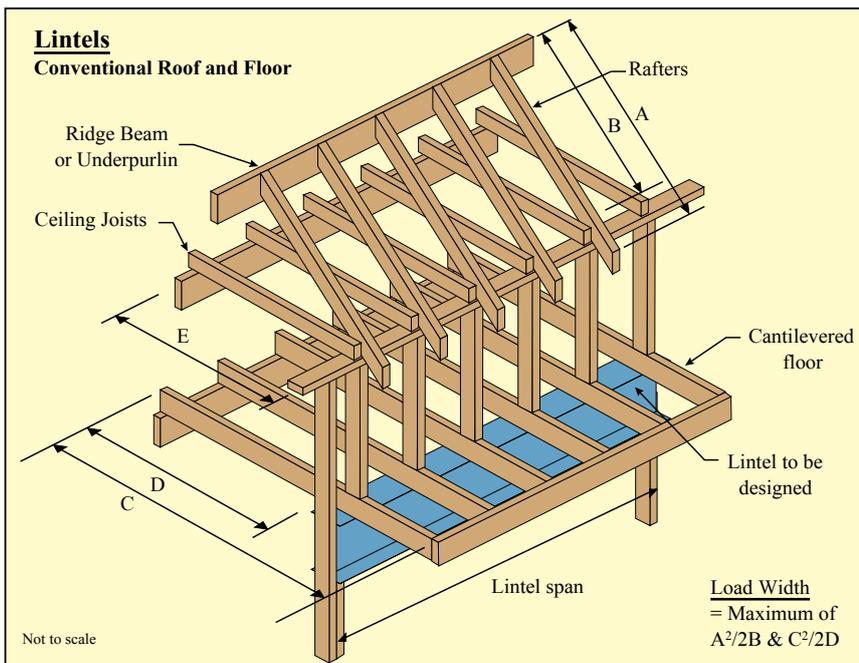
LINTELS SUPPORTING ROOF AND FLOOR

	Load (kg/m ²)		Deflection Limit (mm)	
	Dead Load	Live Load	Dead & Live Load	Live Load
Lintel supporting timber floor, steel sheet roof & ceiling	130	175	span/240 to 15	span/360 to 10
Lintel supporting timber floor, tiled roof & ceiling	130	175	span/240 to 15	span/360 to 10



Notes:

1. If A is much greater than C or vice versa, then the Lintel selection from the table will be conservative.
2. If there is no cantilevered floor then set C=D in the calculation of Load Width.
3. Attention should be given to the load carrying capacity of the timber studs or steel columns that support the Lintel.
4. The top flange of the Lintel is assumed to be continuously laterally supported by floor joists spaced at 450mm centres.



Notes:

1. If A²/2B is much greater than C²/2D or vice versa, then the Lintel selection from the table will be conservative.
2. E is to be no more than 10% greater than A.
3. If there is no cantilevered floor then set C=D in the calculation of Load Width.
4. Attention should be given to the load carrying capacity of the timber studs or steel columns that support the Lintel.
5. The top flange of the Lintel is assumed to be continuously laterally supported by Floor Joists spaced at 450mm centres.

LINTEL SUPPORTING A TIMBER FLOOR, STEEL SHEET ROOF AND CEILING - NORMAL WIND N3

Section Designation	Load Width (m)						
	1.2	1.8	2.4	3.0	3.6	4.2	4.8
	MAXIMUM SPAN OF LINTEL (m)						
100TFB	2.9	2.6	2.4	2.2	2.0	1.9	1.8
125TFB	4.0	3.7	3.4	3.2	3.0	2.9	2.7
150UB14.0	4.4	4.1	3.8	3.6	3.5	3.3	3.2
• 150UB18.0	4.8	4.4	4.1	3.9	3.8	3.6	3.5
180UB16.1	5.0	4.6	4.3	4.1	3.9	3.8	3.7
180UB18.1	5.2	4.7	4.4	4.2	4.0	3.9	3.8
• 180UB22.2	5.5	5.0	4.7	4.5	4.3	4.1	4.0
200UB18.2	5.5	5.1	4.8	4.5	4.3	4.2	4.0
200UB22.3	5.9	5.4	5.1	4.8	4.7	4.5	4.3
200UB25.4	6.1	5.6	5.2	5.0	4.8	4.6	4.5*
• 200UB29.8	6.4	5.9	5.5	5.3	5.0	4.9	4.7*
250UB25.7	6.7	6.2	5.8	5.5	5.3	5.1	5.0*
250UB31.4	7.1	6.5	6.1	5.8	5.6	5.4*	5.2*
250UB37.3	7.5	6.9	6.5	6.2	5.9	5.7*	5.5*
310UB32.0	7.7	7.1	6.7	6.4	6.1	5.9*	5.7*
310UB40.4	8.3	7.7	7.2	6.9	6.6	6.4*	6.2*
310UB46.2	8.6	8.0	7.5	7.1	6.9	6.6*	6.4*
75PFC	2.2	2.0	1.8	1.7	1.6	1.5	1.4
100PFC	3.1	2.7	2.5	2.3	2.2	2.1	2.0
125PFC	3.9	3.6	3.3	3.1	2.9	2.8	2.7
150PFC	4.7	4.3	4.0	3.8	3.7	3.6	3.4
180PFC	5.3	4.9	4.6	4.4	4.2	4.1	3.9
200PFC	5.8	5.3	5.0	4.7	4.5	4.4	4.2
230PFC	6.3	5.8	5.4	5.2	4.9	4.8	4.6*
250PFC	7.1	6.5	6.2	5.9	5.6	5.4	5.3*
300PFC	8.0	7.4	6.9	6.6	6.3	6.1*	5.9*

Example:
Refer to Fig. page 14
Lintel Span=4.6m, trussed roof
A=3.8m
C=3.0m D=1.5m
Load width is the max of
=A or C²/2D
=3.8 or 3.0²/(2x1.5)
=3.8m
Use a load width of 4.2
in the adjacent table
a 200UB25.4 will span 4.6m.
No anchor rod is required.

LINTEL SUPPORTING A TIMBER FLOOR, TILED ROOF AND CEILING - NORMAL WIND N3

Section Designation	Load Width (m)						
	1.2	1.8	2.4	3.0	3.6	4.2	4.8
	MAXIMUM SPAN OF LINTEL (m)						
100TFB	2.7	2.4	2.2	2.1	1.9	1.8	1.7
125TFB	3.8	3.5	3.2	3.0	2.8	2.7	2.6
150UB14.0	4.3	3.9	3.7	3.5	3.3	3.1	3.0
• 150UB18.0	4.6	4.2	4.0	3.8	3.6	3.5	3.3
180UB16.1	4.8	4.4	4.1	3.9	3.8	3.6	3.5
180UB18.1	5.0	4.6	4.3	4.1	3.9	3.7	3.6
• 180UB22.2	5.3	4.8	4.5	4.3	4.1	4.0	3.8
200UB18.2	5.3	4.9	4.6	4.3	4.2	4.0	3.9
200UB22.3	5.7	5.2	4.9	4.7	4.5	4.3	4.2
200UB25.4	5.9	5.4	5.0	4.8	4.6	4.4	4.3
• 200UB29.8	6.2	5.7	5.3	5.0	4.8	4.7	4.5
250UB25.7	6.5	5.9	5.6	5.3	5.1	4.9	4.7
250UB31.4	6.8	6.3	5.9	5.6	5.4	5.2	5.0
250UB37.3	7.2	6.6	6.2	5.9	5.7	5.5	5.3
310UB32.0	7.5	6.9	6.4	6.1	5.9	5.7	5.5
310UB40.4	8.0	7.4	7.0	6.6	6.3	6.1	5.9
310UB46.2	8.3	7.7	7.2	6.9	6.6	6.3	6.2
75PFC	2.1	1.9	1.7	1.6	1.5	1.4	1.3
100PFC	2.9	2.6	2.4	2.2	2.1	2.0	1.9
125PFC	3.8	3.4	3.1	2.9	2.7	2.6	2.5
150PFC	4.5	4.1	3.9	3.7	3.5	3.4	3.2
180PFC	5.2	4.7	4.4	4.2	4.0	3.9	3.8
200PFC	5.6	5.1	4.8	4.5	4.4	4.2	4.1
230PFC	6.0	5.5	5.2	4.9	4.7	4.6	4.4
250PFC	6.9	6.3	5.9	5.6	5.4	5.2	5.0
300PFC	7.7	7.1	6.7	6.3	6.1	5.9	5.7

Example:
Refer to Fig. page 14
Lintel Span=4.6m, trussed roof
A=3.8m
C=3.0m D=1.0m
Load width is the max of
=A or (C²/2D)
=3.8 or 3²/(2x1.0)
=4.5m
Use a load width of 4.8
in the adjacent table
a 200UB25.7 will span 4.7m.
No anchor rod is required.

Notes on Tables:

- 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
- For angle lintels, the first dimension corresponds to the vertical lintel leg, eg for 100x75x6UA, 100mm leg is vertical.
- For sections marked '•' the next largest size may be more economical.
- No symbol next to the span indicates that only nominal holding down is required (uplift is less than 5 kN).
A "*" indicates a M10 holding down rod is required (uplift is between 5 and 19 kN).



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CONTENTS

Benefits of OneSteel's Structural Steel.....	1
Product Description and Range.....	2
Span Table Design Data.....	4
Letter of Certification.....	5
Bearers	6
Strutting Beams.....	8
Strutting/Hanging Beams	10
Lintels Supporting Roof	12
Lintels Supporting Roof and Floor.....	14
Lintels Supporting Strutting Beam	16
Verandah Beams.....	18
Steel Sheet Roofs in High Wind Areas	20
Lintels Supporting Masonry	22
Connection Examples	24
Surface Treatment.....	26
Other Publications.....	28



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onesteel
market mills

ONESTEEL DIRECT

Freecall 1800 178 335

Website www.onesteel.com

Freefax 1800 101 141

Email onesteeldirect@onesteel.com

Postal address

Locked Bag 8825

Wollongong DC

NSW 2500 Australia

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