

Table 5.8B

MAXIMUM ALLOWABLE CLEAR SPANS FOR FLAT ICF LINTELS WITH STIRRUPS IN LOAD-BEARING WALLS^{1,2,3,4,5,6,7} (N16 BOTTOM BAR SIZE)

MINIMUM LINTEL THICKNESS, T (mm)	MINIMUM LINTEL DEPTH, D (mm)	MAXIMUM CLEAR SPAN (mm)					
		SUPPORTING LIGHT-FRAME ROOF ONLY		SUPPORTING LIGHT-FRAME SECOND STORY AND ROOF		SUPPORTING ICF SECOND STORY AND LIGHT-FRAME ROOF.	
		MAXIMUM GROUND SNOW LOAD (kN/m ²)					
		1.44	3.35	1.44	3.35	1.44	3.35
100	200	1450	1270	1190	1190	1090	1040
	300	2180	1900	1800	1650	1650	1520
	400	2895	2440	2230	1980	2000	1800
	500	3380	2770	2540	2260	2290	2460
	600	3700	3660	3380	2980	3040	2740
150	200	1680	1470	1400	1270	1270	1170
	300	2500	2060	1900	1680	1700	1520
	400	2970	2440	2700	2370	2400	2190
	500	3980	3280	3040	2680	2740	2470
	600	4390	3620	3300	2980	3010	2740
200	200	1850	1570	1450	1290	1290	1170
	300	2490	2060	1900	2010	2040	1820
	400	3600	2890	2670	2370	2400	2190
	500	3900	3260	3040	2670	2740	2470
	600	3900	3600	3340	2950	3010	2710
250	200	1930	1570	1470	1290	1320	1190
	300	2490	2430	2250	2010	2040	1820
	400	3460	2890	2670	2370	2400	2160
	500	3900	3220	3010	2670	2710	2460
	600	3900	3580	3280	2950	3000	2710

1 Stirrups shall be N10 at a spacing of d/2 where d is the lintel depth, except where noted in Table 5.12 and Table 5.13

2 Table values are based on concrete with a minimum specified compressive strength of 17.2MPa, reinforcing steel with a minimum yield strength of 414 MPa, and a building width (floor and roof clear span of 9.8m).

3 Deflection criterion is L/240, where L is the clear span of the lintel.

4 Linear interpolation is permitted between lintel depths.

5 Lintel depth, D, is permitted to include the available height of ICF wall located directly above the lintel, provided that the increased lintel depth spans the entire length of the lintel.

6 Spans shall be permitted to be multiplied by 1.05 for building width (floor and roof clear span) of 8.5m.

7 Spans shall be permitted to be multiplied by 1.1 for building width (floor and roof clear span) of 7.3m or less.

8 Supported ICF wall dead load is 3.3 kPa.