

Table 5.8A

MAXIMUM ALLOWABLE CLEAR SPANS FOR FLAT ICF LINTELS WITH STIRRUPS IN LOAD-BEARING WALLS^{1,2,3,4,5,6,7} (N12 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)					
		1.437	3.353	1.437	3.353	1.437	3.353
100	200	1450	1270	1170	1010	1040	940
	300	2030	1650	1520	1620	1600	1460
	400	2410	2350	2100	1920	1900	1760
	500	3200	2680	2400	2190	2200	2370
	600	3600	2950	2700	2400	2400	2220
150	200	1570	1270	1170	1040	1040	1120
	300	2400	1980	1800	1620	1600	1480
	400	2800	2350	2100	1920	1900	1760
	500	3200	2640	2400	2196	2200	2010
	600	3530	2920	2710	2400	2430	2190
200	200	1570	1520	1400	1240	1400	1150
	300	2400	1980	1800	1620	1600	1500
	400	2800	2350	2100	1920	1900	1520
	500	3100	2610	2400	2160	2200	1980
	600	3400	2890	2600	2370	2400	2190
250	200	1800	1520	1400	1240	1200	1160
	300	2400	1980	1820	1620	1600	1480
	400	2800	2310	2100	1920	1900	1760
	500	3100	2610	2200	2160	2200	1980
	600	3400	2860	2600	2370	2400	2190

1 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.

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

3 Linear interpolation is permitted between lintel depths.

4 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.

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

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

7 Supported ICF wall dead load is 3.3 kPa.