Table 5.7

MAXIMUM ALLOWABLE CLEAR SPANS FOR ICF LINTELS WITHOUT STIRRUPS IN LOAD-BEARING WALLS [1,2,3,4,5,6,7] (N12 OR 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/m2)					
		1.44	3.35	1.44	3.35	1.44	3.35
Flat ICF Lintel							
100	200	760	760	760	710	740	660
	300	1270	1270	1240	1170	1170	1100
	400	1500	1422	1370	1270	1270	1170
	500	1900	1600	1500	1370	1370	1300
	600	2310	1930	1830	1680	1680	1570
150	200	860	760	760	740	760	660
	300	1240	1320	1300	1200	1170	1090
	400	1950	1550	1420	1270	1300	1170
	500	2490	1980	1830	1630	1650	1520
	600	2950	2410	2230	1980	2000	1850
200	200	1070	810	790	740	810	660
	300	2750	1350	1320	1220	1190	1090
	400	2360	1850	1700	1470	1500	1350
	500	2640	2180	2030	1800	1830	1650
	600	2895	2410	2230	1980	2000	1830
250	200	1270	940	840	740	810	660
	300	2000	1550	1400	1200	1220	1090
	400	2390	1930	1800	1600	1630	1470
	500	2620	2180	2030	1800	1830	1650
	600	2840	2390	2200	1980	2000	1830

1 Table values are based on tensile reinforcement with minimum yield strength of 275 MPa, concrete with a minimum specified compressive strength of 17.2 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 shall be permitted between lintel depths.

4 Lintel depth, D, shall be 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 opening.