

Table 5.11

**MINIMUM BOTTOM BAR ICF LINTEL REINFORCEMENTS FOR LARGE CLEAR SPANS WITH STIRRUPS
IN LOAD-BEARING WALLS^{1,2,3,4,5}**

MINIMUM LINTEL THICKNESS, T ⁶ (mm)	MINIMUM LINTEL DEPTH, D (mm)	MINIMUM BOTTOM LINTEL REINFORCEMENT (quality - size)					
		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
Flat ICF Lintel, 3700mm Maximum Clear Span							
100	600	1- N16	D/R	D/R	D/R	D/R	D/R
150	500	1-N20or 2-N12	1-N20or 2-N12	D/R	D/R	D/R	D/R
	600	1- N16	1-N20or 2-N12	1-N20or2-N12	2-N16	2-N16	D/R
200	400	2-N12	D/R	D/R	D/R	D/R	D/R
	500	1-N16or 2-N12	2-N12	2-N16	D/R	D/R	D/R
	600	1-N16or 2-N12	2-N12	2-N12	2-N16	2-N16	2-N16
250	400	2-N12	D/R	D/R	D/R	D/R	D/R
	500	1-N16or 2-N12	2-N12	2-N16	2-N16	2-N16	2-N16
	600	1-N16or 2-N12	2-N12	2-N12	2-N16	2-N16	2-N16
Flat ICF Lintel, 4900mm Maximum Clear Span							
150	600	1-N16or 2-N12	D/R	D/R	D/R	D/R	D/R
200	600	1-N16or 2-N12	D/R	D/R	D/R	D/R	D/R
250	600	1-N16or 2-N12	2-N16	2-N16	D/R	D/R	D/R

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 D/R indicates design required.

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 Supported ICF wall dead load varies based on wall thickness using 2400 kg / m3 concrete density.