

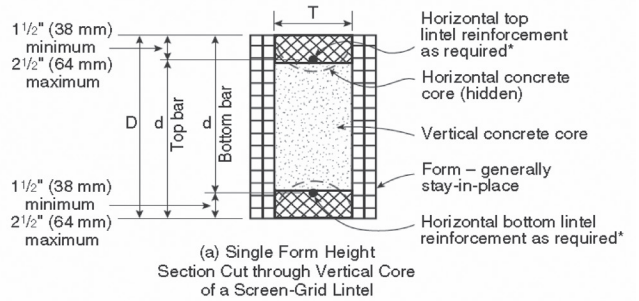
BUILDBLOCK BUILDING SYSTEMS GLOBALBLOCK ENGINEERING TABLES

4" GLOBALBLOCK SCREEN GRID FORM

Table 5.10 A&B
Maximum Allowable Clear Spans (feet-inches) for
Screen Grid ICF Lintels in Load-Bearing Walls (*See Notes)

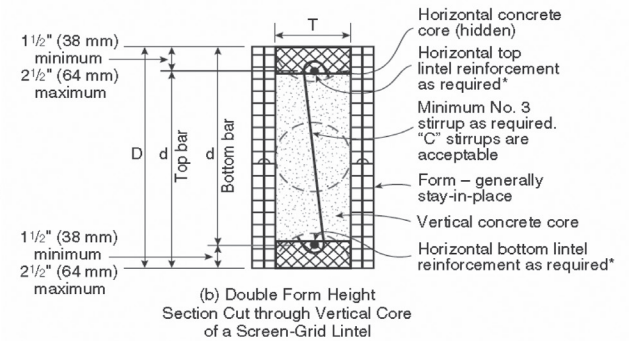
No. 4 Bottom Bar Size

Minimum Lintel Thickness, T (inches)	Minimum Lintel Depth, D (inches)	Supporting Light Frame Roof Only		Supporting Light Frame Second Story and Roof		Supporting ICF Second Story and Light Frame Roof	
		Maximum Ground Snow Load (psf)					
		30	70	30	70	30	70
4	16	2-0	1-6	1-8	1-6	N/A	N/A
	24	3-6*	2-6	2-6	2-0	2-0	2-0



No. 5 Bottom Bar Size

Minimum Lintel Thickness, T (inches)	Minimum Lintel Depth, D (inches)	Supporting Light Frame Roof Only		Supporting Light Frame Second Story and Roof		Supporting ICF Second Story and Light Frame Roof	
		Maximum Ground Snow Load (psf)					
		30	70	30	70	30	70
4	16	2-0	1-6	1-8	1-6	N/A	N/A
	24	3-6*	2-6	2-6	2-0	2-0	2-0



*For bundled bars, see Section 7.2.2.

Note: Cross-hatching represents the area in which form material shall be removed, if necessary, to create flanges continuous the length of the lintel. Flanges shall have a minimum thickness of 2.5" and a minimum width of 5".

- Table values are based on concrete with a minimum specified compressive strength of 2,500 psi (17.2 MPa), reinforcing steel with a minimum yield strength of 40,000 psi (276 MPa), and a building width floor clear span of 24 feet and roof clear span of 32 feet (9.8m), D/R indicates design required.
- Stirrups shall be required at a maximum spacing of 12 inches (304.8mm) on center for 16 in (406.4mm) and 32 in (812.8mm) deep screen-grid lintels.
- Deflection criterion is $l/240$, where L is the clear span of the lintel in inches.
- Linear interpolation is permitted between ground now loads and between lintel depths. Lintel depth, D, is permitted to include the available height of any ICF wall location directly above the lintel, provided that the increased lintel depth spans the entire length of the lintel.
- Flat ICF lintel may be used in lieu of screen-grid lintels.
- Lintel thickness corresponds to the nominal screen-grid IFC wall thickness. For actual wall thickness.
- Refer to PCA 100-2012 Prescriptive Design & Exterior Concrete Walls for design assumption and background information
- Supported ICF wall dead load is approximately 30 psf
- Allowable Lintel Span can be 6'-0" for load bearing walls with concrete compressive strength of 3,500 psi (or greater) and for non-load bearing walls.

MCLaren
REGISTERED ENGINEER

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TABLE NUMBER
12-A