

BUILDBLOCK® BUILDING SYSTEMS CANADIAN ENGINEERING TABLES

6" Walls - Lintel Reinforcement

Openings in full-height ICF walls

(Includes arching effects in uninterrupted walls, or max 2.5 m height of ICF wall between openings)

Factored Load Span	24.7 kN/m	
	Moment	Shear
1.2	4.45	8.90
1.8	10.01	16.32
2.1	13.63	20.02
2.4	17.80	23.73
3.0	27.81	31.15
3.6	40.05	38.56
3.9	47.00	42.27
4.2	54.51	45.98
4.5	62.57	49.69
4.8	71.19	53.40

Lintel Depth	Reinforcement	
	Tension	Shear
300	1-15M	no stirrups
300	1-15M	10M@150
300	1-15M	10M@150
300	2-15M	10M@150
300	2-15M	10M@150
300	2-20M	10M@150
450	2-15M	10M@250
450	2-20M	10M@250
450	2-20M	10M@250
450	2-20M	10M@250

Openings in basement ICF walls supporting full-height wood-framed walls

Factored Load Span	45.3 kN/m	
	Moment	Shear
1.2	8.16	16.31
1.8	18.35	29.91
2.1	24.98	36.71
2.4	32.63	43.50
2.7	41.29	50.30
3.0	50.98	57.10
3.3	61.69	63.89
3.6	73.41	70.69
4.2	99.92	84.29
4.5	114.70	91.08

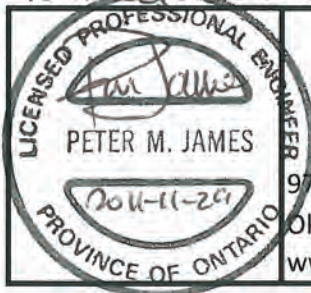
Lintel Depth	Reinforcement	
	Tension	Shear
300	1-15M	no stirrups
300	2-15M	10M@150
300	2-15M	10M@150
300	2-20M	10M@150
450	2-15M	10M@250
450	2-20M	10M@250
450	2-20M	10M@250
600	2-20M	10M@250
600	2-20M	10M@250
N A	N A	N A

N A Load exceeds capacity of lintel

Notes:

Calculate shear at support + 0.24 m (CSA A23.3 11.3.2)

~~NSWATZEL ENGINEERING CONSULTANTS LTD~~



9705 N. Broadway Ext. Suite 200
Oklahoma City, OK 73114
www.buildblock.com

Office: (405) 840-3386
Fax: (831) 597-0792

Lintel Reinforcement
6" Walls
All Locations

Table 6 - C