

BUILDBLOCK® BUILDING SYSTEMS CANADIAN ENGINEERING TABLES

8" 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 | 26.2 kN/m | |
|-----------------------|-----------|-------|
| | Moment | Shear |
| 2.1 | 14.45 | 21.28 |
| 2.4 | 18.88 | 25.21 |
| 3.0 | 29.50 | 33.08 |
| 3.3 | 35.69 | 37.01 |
| 3.6 | 42.48 | 40.94 |
| 3.9 | 49.85 | 41.34 |
| 4.2 | 57.82 | 45.27 |
| 4.5 | 66.37 | 49.20 |
| 4.8 | 75.51 | 49.60 |
| 5.4 | 95.57 | 57.46 |

| 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 |
| 300 | 2-20M | 10M@150 |
| 450 | 2-15M | 10M@250 |
| 450 | 2-20M | 10M@250 |
| 450 | 2-20M | 10M@250 |
| 600 | 2-20M | 10M@350 |
| 600 | 2-20M | 10M@350 |

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

| Factored Load Span | 45.3 kN/m | |
|-----------------------|-----------|-------|
| | Moment | Shear |
| 1.2 | 8.16 | 16.38 |
| 1.8 | 18.35 | 29.98 |
| 2.1 | 24.98 | 36.77 |
| 2.4 | 32.63 | 43.57 |
| 2.7 | 41.29 | 50.37 |
| 3.0 | 50.98 | 51.05 |
| 3.3 | 61.69 | 57.84 |
| 3.6 | 73.41 | 64.64 |
| 3.9 | 86.16 | 65.32 |
| 4.2 | 99.92 | 72.12 |
| 4.5 | 114.70 | 78.92 |

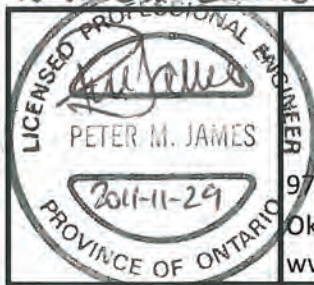
| Lintel Depth | Reinforcement | |
|-----------------|---------------|-------------|
| | Tension | Shear |
| 300 | 1-15M | no stirrups |
| 300 | 2-15M | 10M@150 |
| 300 | 2-15M | 10M@150 |
| 300 | 2-20M | 10M@150 |
| 300 | 2-20M | 10M@150 |
| 450 | 2-15M | 10M@250 |
| 450 | 2-20M | 10M@250 |
| 450 | 2-20M | 10M@250 |
| 600 | 2-20M | 10M@350 |
| 600 | 2-20M | 10M@300 |
| N A | N A | N A |

Notes:

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

N A Load exceeds capacity of lintel

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Lintel Reinforcement
8" Walls
All Locations

Table 8 - C