**4 X 8 LINTELS** 3,000 psi (Dry mix)

For further technical information about shear strengths, deflections and other issues, please call our office at 302-934-9237

**Design Data**
- $f'_c = 3,000$ psi (minimum)
- $f_y = 60,000$ psi (per ASTM-A3115)
- Average weight per linear foot of beam: - 28 lbs

**Design formulas as per ACI 318-95**
- $M_u = \text{Moment governed by ultimate strength} = 0.9 (A_f) (f_y) (d-a/2)
- $V_u = \text{Shear governed by ultimate strength} = 0.4 (2f_yd + f_c d)
- $M_u = 1/8 W_1 (L_1)^2$
- $V_u = 1/2 W_1 L_2$
- $\Delta_{max} = \text{Maximum allowable deflection} = L_2/360 \leq 0.3''$

**UL Fire Ratings** 11/4 hour

**Typical Section:**
- Width (W) = 36.25 inches
- Height (H) = 7.625 inches
- Eff. Depth (d) = H - 1/4 x 1/4 bar dia.

As a minimum, the lintels carry the apex area above the span. An example of the uniform equivalent apex load calculation follows.

- Hollow masonry block weights for determining uniform equivalent apex load on lintel:
  - 8" block weight = 35 psi (Hollow)
  - 12" block weight = 50 psi (Hollow)

**Equivalent load of apex area** = .33 WL

**Effective span** "L" of lintel (centerline of bearing to centerline of bearing)

**Weight of masonry block, "W"** PSF

**Example**

Equation for the load for 4" x 8" lintel with effective span of 48"

 Apex Load = (.33)(W)(L) = .33 (35 psi)(48)/12 = 23#/FT

**Capacity of 4" x 8" lintel with effective span of 48"**

Therefore, the lintel has significant excess capacity. If superimposed load is located within apex area, then refer to the load tables to ensure sufficient capacity.

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*Maximum allowable superimposed $W_u$ uniformly distributed load covered by bending (lbs-ft) balanced condition

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**Parker Block**
PO box 780
Millboro, DE 19966-0780

**PARKER BLOCK CO., INC.**
Not Just Block!