

# CONCRETE LINTELS

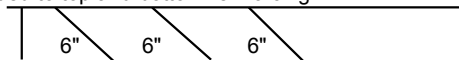
## BLOCK TEXTURED LINTELS - NORMAL WEIGHT

| Lintel Length | Clear Span | Nominal 4x8                 |                             |                  |              | Nominal 6x8                 |                             |                  |              | Nominal 8x8                 |                             |                  |              |      |        |     |
|---------------|------------|-----------------------------|-----------------------------|------------------|--------------|-----------------------------|-----------------------------|------------------|--------------|-----------------------------|-----------------------------|------------------|--------------|------|--------|-----|
|               |            | Ultimate Load (lb/ft) L/480 | Ultimate Load (lb/ft) L/600 | Rebar            | Weight (lbs) | Ultimate Load (lb/ft) L/480 | Ultimate Load (lb/ft) L/600 | Rebar            | Weight (lbs) | Ultimate Load (lb/ft) L/480 | Ultimate Load (lb/ft) L/600 | Rebar            | Weight (lbs) |      |        |     |
| 24" (2'-0")   | 8"         | 13913                       | 13913                       | 1-#3 B           | 48           |                             |                             |                  |              |                             |                             |                  |              |      |        |     |
| 28" (2'-4")   | 12"        | 8894                        | 8894                        |                  | 56           |                             |                             |                  |              |                             |                             |                  |              |      |        |     |
| 32" (2'-8")   | 16"        | 4078                        | 4078                        |                  | 64           |                             |                             |                  |              |                             |                             |                  |              |      |        |     |
| 36" (3'-0")   | 1'-8"      | 2955                        | 2955                        | 1-#3 T<br>1-#3 B | 72           | 4585                        | 4585                        | 1-#3 T<br>2-#3 B | 112          |                             |                             |                  |              |      |        |     |
| 40" (3'-4")   | 2'-0"      | 2314                        | 2314                        |                  | 80           | 3591                        | 3591                        |                  | 124          | 4868                        | 4868                        | 2-#3 T<br>2-#3 B | 168          |      |        |     |
| 48" (4'-0")   | 2'-8"      | 1610                        | 1610                        |                  | 96           | 2498                        | 2498                        |                  | 149          | 3387                        | 3387                        |                  | 202          |      |        |     |
| 56" (4'-8")   | 3'-4"      | 1231                        | 1231                        |                  | 112          | 1911                        | 1911                        |                  | 174          | 2590                        | 2590                        |                  | 236          |      |        |     |
| 64" (5'-4")   | 4'-0"      | 995                         | 995                         |                  | 128          | 1544                        | 1544                        |                  | 199          | 2093                        | 2093                        |                  | 269          |      |        |     |
| 72" (6'-0")   | 4'-8"      | 833                         | 833                         |                  | 144          | 1293                        | 1293                        |                  | 223          | 1688                        | 1688                        |                  | 303          |      |        |     |
| 80" (6'-8")   | 5'-4"      | 660                         | 660                         |                  | 160          | 1110                        | 1110                        |                  | 248          | 1321                        | 1321                        |                  | 336          |      |        |     |
| 88" (7'-4")   | 6'-0"      | 619                         | 619                         |                  | 1-#3 T       | 176                         | 960                         |                  | 960          | 1-#3 T                      | 273                         |                  | 1302         | 1277 | 2-#3 T | 370 |
| 96" (8'-0")   | 6'-8"      | 550                         | 463                         |                  | 1-#4 B       | 192                         | 853                         |                  | 853          | 2-#4 B                      | 298                         |                  | 1156         | 944  | 2-#4 B | 404 |
| 112" (9'-4")  | 8'-0"      | 442                         | 361                         | 1-#3 T<br>1-#5 B | 224          | 686                         | 670                         | 1-#3 T<br>2-#5 B | 347          | 929                         | 731                         |                  | 2-#3 T       | 471  |        |     |
| 120" (10'-0") | 8'-0"      | 406                         | 319                         |                  | 240          | 656                         | 594                         |                  | 372          | 823                         | 647                         | 2-#5 B           | 505          |      |        |     |
| 128" (10'-8") | 8'-8"      | 322                         | 252                         |                  | 256          | 599                         | 471                         |                  | 397          |                             |                             |                  |              |      |        |     |
| 136" (11'-4") | 9'-4"      | 325                         | 254                         | 1-#3 T           | 272          |                             |                             |                  |              |                             |                             |                  |              |      |        |     |
| 144" (12'-0") | 10'-0"     | 264                         | 206                         | 1-#6 B           | 288          |                             |                             |                  |              |                             |                             |                  |              |      |        |     |

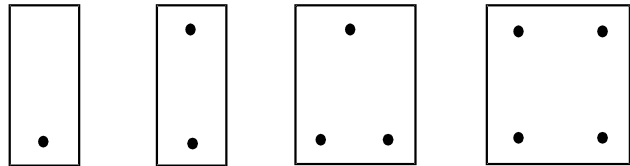
## DENSE TEXTURED LINTELS

| Lintel Length | Clear Span | Nominal 4x8                 |                             |                  |              |
|---------------|------------|-----------------------------|-----------------------------|------------------|--------------|
|               |            | Ultimate Load (lb/ft) L/480 | Ultimate Load (lb/ft) L/600 | Rebar            | Weight (lbs) |
| 136" (11'-4") | 9'-4"      | 319                         | 249                         | 1-#4 T<br>1-#6 B | 272          |
| 144" (12'-0") | 10'-0"     | 259                         | 202                         | TRUSSED          | 288          |
| 160" (13'-4") | 11'-4"     | 215                         | 166                         | 1-#4 T<br>1-#7 B | 320          |
| 168" (14'-0") | 12'-0"     | 179                         | 138                         | TRUSSED          | 336          |

All dense concrete lintels have #3 inclined stirrups at 6" c/c welded to top and bottom reinforcing.



## STEEL REBAR LOCATIONS FOR BLOCK TEXTURED LINTELS



4x8 24"-32"      4x8 36"-144"      6x8 ALL SIZES      8x8 ALL SIZES

## STRUCTURAL DESIGN NOTES: Based on ACI 318-11

- Loading shown is superimposed load capacity of lintel.
- Concrete compressive strength:
  - For Block Textured Lintels -  $f_c = 2500$  psi
  - For Dense Textured Lintels -  $f_c = 5000$  psi
- Reinforcing yield strength -  $f_y = 60,000$  psi
- Clear Cover = 3/4" (Top & Bottom)
- Minimum bearing length:
  - 8" for lintels less than 10 ft
  - 12" for lintels 10 ft and longer
- Lintel deflection limits:
  - **L/480** when supporting reinforced masonry
  - **L/600** when supporting unreinforced masonry
- LRFD Load Combinations: D = Dead Load, L = Live Load
  - 1.4D, 1.2D + 1.6L (Refer to ACI Chapter 9 for additional load cases)

## GENERAL NOTES:

**\*Additional sizes in dense textured concrete lintels available on SPECIAL ORDER and require a customer supplied engineered drawing before we can quote.**

4x8 Block Texture Lintels - scored one side

6x8 and 8x8 Block Texture Lintels - scored two sides

Pallet Quantity for 4x8 Lintels: In layers of 10

- 40 for units up to 48" length
- 20 for units over 48" length

Pallet Quantity for 6x8 and 8x8 Lintels: In layers of 5,

- 20 for units up to 48" length
- 10 for units over 48" length



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