



FORTECO™

LIGHTWEIGHT COMPOSITE FRAMING

COMPOSITE STEEL/CONCRETE LOAD TABLES

3" Concrete Topping
f'c = 4000 psi

Spacing:
24"

G60
Galvanized
Steel
Fy = 50 ksi

| Series: | LCF8-18 | LCF8-16 | LCF8-14 | LCF8-12 | LCF10-18 | LCF10-16 | LCF10-14 | LCF10-12 |
|----------------------------|--|------------|------------|------------|-------------|-------------|-------------|-------------|
| Depth (in) - Gauge | 8" - 18 ga | 8" - 16 ga | 8" - 14 ga | 8" - 12 ga | 10" - 18 ga | 10" - 16 ga | 10" - 14 ga | 10" - 12 ga |
| Approximate Weight (lb/ft) | 4.17 | 5.21 | 6.49 | 9.00 | 4.82 | 6.03 | 7.51 | 10.42 |
| Span (ft) | Allowable Superimposed Live Load (Dead Load = 20psf) Superimposed Live Load at L/480 (Deflection @ Allow. Load) | | | | | | | |
| 8 | 1168 | 1510 | | | | | | |
| 9 | 898 | 1054 | | | | | | |
| 10 | 706 | 763 | 878 | 912 | | 946 | 1187 | |
| 11 | 563 | 568 | 706 | 680 | | 763 | 887 | |
| 12 | 455 | 433 | 575 | 519 | 720 | 620 | 624 | 678 |
| 13 | 370 | 336 | 473 | 404 | 596 | 484 | 515 | 529 |
| 14 | 303 | 265 | 393 | 320 | 499 | 383 | 702 | 501 |
| 15 | 249 | 212 | 327 | 256 | 420 | 308 | 597 | 403 |
| 16 | 205 | 171 | 274 | 207 | 356 | 250 | 511 | 329 |
| 17 | 169 | 139 | 230 | 170 | 302 | 205 | 440 | 271 |
| 18 | 138 | 114 | 193 | 140 | 257 | 170 | 380 | 225 |
| 19 | 112 | 94 | 161 | 116 | 219 | 141 | 330 | 188 |
| 20 | 90 | 78 | 135 | 96 | 187 | 118 | 287 | 159 |
| 21 | 71 | 65 | 112 | 81 | 159 | 99 | 250 | 134 |
| 22 | 54 | 54 | 92 | 68 | 135 | 84 | 217 | 114 |
| 23 | 40 | (L/518) | 74 | 57 | 114 | 71 | 189 | 97 |
| 24 | 27 | (L/578) | 59 | 47 | 96 | 60 | 165 | 83 |
| 25 | | | 45 | 40 | 79 | 51 | 143 | 71 |
| 26 | | | 33 | 33 | 65 | 43 | 124 | 61 |
| 27 | | | 23 | (L/531) | 52 | 36 | 106 | 53 |
| 28 | | | | | 40 | 30 | 91 | 45 |
| 29 | | | | | 30 | 25 | 77 | 39 |
| 30 | | | | | 21 | 21 | 65 | 33 |
| 31 | | | | | | 54 | 28 | |
| 32 | | | | | | 43 | 24 | |
| 33 | | | | | | 34 | 20 | |
| 34 | | | | | | 26 | 16 | |
| 35 | | | | | | | | |
| 36 | | | | | | | | |
| 37 | | | | | | | | |
| 38 | | | | | | | | |
| 39 | | | | | | | | |
| 40 | | | | | | | | |
| 41 | | | | | | | | |
| 42 | | | | | | | | |
| 43 | | | | | | | | |
| 44 | | | | | | | | |

Notes: 1. Load values are based on a steel yield strength of 50 ksi and a joist spacing of 24" o.c. For different load conditions, joist spacing or steel material strengths please contact Lightweight Structures, LLC for custom engineering design.
 2. This table is to be used as a guide for determining depth and steel sizes for various span and distributed load conditions. Calculations are based on allowable stress design for composite steel-concrete construction. Contact Lightweight Structures, LLC for engineering an pricing for a particular application.

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