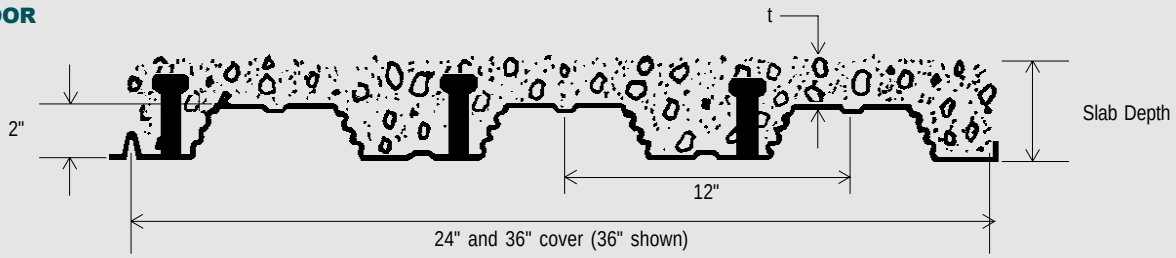
United Steel Deck, Inc.

LRFD

## 2" LOK-FLOOR




The **Deck Section Properties** are per foot of width. The **I** value is for positive bending (in.$^4$); **t** is the gage thickness in inches; **w** is the weight in pounds per square foot; $S_p$ and $S_n$ are the section moduli for positive and negative bending (in.$^3$); $R_b$ and $\phi V_n$. are the interior reaction and the shear in pounds (per foot of width); studs is the number of studs required per foot in order to obtain the full resisting moment, $\phi M_{nf}$.

**DECK PROPERTIES**

| Gage | t | w | As | I | $S_p$ | $S_n$ | $R_b$ | $\phi V_n$ | studs |
|---|---|---|---|---|---|---|---|---|---|
| 22 | 0.0295 | 1.5 | 0.440 | 0.338 | 0.284 | 0.302 | 714 | 1990 | 0.36 |
| 20 | 0.0358 | 1.8 | 0.540 | 0.420 | 0.367 | 0.387 | 1010 | 2410 | 0.43 |
| 19 | 0.0418 | 2.1 | 0.630 | 0.490 | 0.445 | 0.458 | 1330 | 2810 | 0.51 |
| 18 | 0.0474 | 2.4 | 0.710 | 0.560 | 0.523 | 0.529 | 1680 | 3180 | 0.57 |
| 16 | 0.0598 | 3.1 | 0.900 | 0.700 | 0.654 | 0.654 | 2470 | 3990 | 0.72 |

The **Composite Properties** are a list of values for the composite slab. The **slab depth** is the distance from the bottom of the steel deck to the top of the slab in inches as shown on the sketch. U.L. ratings generally refer to the cover over the top of the deck so it is important to be aware of the difference in names. $\phi M_{nf}$ is the factored resisting moment provided by the composite slab when the "full" number of studs as shown in the upper table are in place; inch kips (per foot of width). $A_c$ is the area of concrete available to resist shear, in.$^2$ per foot of width. **Vol.** is the volume of concrete in ft.$^3$ per ft.$^2$ needed to make up the slab; no allowance for frame or deck deflection is included. **W** is the concrete weight in pounds per ft.$^2$. $S_c$ is the section modulus of the "cracked" concrete composite slab; in.$^3$ per foot of width. $I_{av}$ is the average of the "cracked" and "uncracked" moments of inertia of the transformed composite slab; in.$^4$ per foot of width. The $I_{av}$ transformed section analysis is based on steel; therefore, to calculate deflections the appropriate modulus of elasticity to use is 29.5 **x** $10^6$ psi. $\phi M_{no}$ is the factored resisting moment of the composite slab if there are no studs on the beams (the deck is attached to the beams or walls on which it is resting) inch kips (per foot of width). $\phi V_{nt}$ is the factored vertical shear resistance of the composite system; it is the sum of the shear resistances of the steel deck and the concrete but is not allowed to exceed $\phi 4(f'_c)^{1/2}A_c$; pounds (per foot of width). The next three columns list the **maximum unshored spans** in feet; these values are obtained by using the construction loading requirements of the SDI; combined bending and shear, deflection, and interior reactions are considered in calculating these values. $A_{wwf}$ is the minimum area of welded wire fabric recommended for temperature reinforcing in the composite slab; square inches per foot.

**COMPOSITE PROPERTIES**

| | Slab Depth | $\phi M_{nf}$ in.k | $A_c$ in$^2$ | Vol. ft$^3$/ft$^2$ | W psf | $S_c$ in$^3$ | $I_{av}$ in$^3$ | $\phi M_{no}$ in.k | $\phi V_{nt}$ lbs. | Max. unshored spans, ft. 1span | 2span | 3span | $A_{wwf}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 22 gage | 4.50 | 40.27 | 32.6 | 0.292 | 42 | 1.05 | 5.9 | 29.40 | 5030 | 5.82 | 7.83 | 7.92 | 0.023 |
| | 5.00 | 46.44 | 37.5 | 0.333 | 48 | 1.23 | 8.0 | 34.53 | 5480 | 5.54 | 7.47 | 7.56 | 0.027 |
| | 5.25 | 49.53 | 40.0 | 0.354 | 51 | 1.32 | 9.2 | 37.16 | 5720 | 5.41 | 7.31 | 7.39 | 0.029 |
| | 5.50 | 52.61 | 42.6 | 0.375 | 54 | 1.42 | 10.5 | 39.81 | 5960 | 5.30 | 7.16 | 7.24 | 0.032 |
| | 6.00 | 58.78 | 48.0 | 0.417 | 60 | 1.61 | 13.5 | 45.21 | 6460 | 5.09 | 6.89 | 6.97 | 0.036 |
| | 6.25 | 61.87 | 50.8 | 0.438 | 63 | 1.71 | 15.3 | 47.95 | 6720 | 5.03 | 6.76 | 6.84 | 0.038 |
| | 6.50 | 64.95 | 53.6 | 0.458 | 66 | 1.81 | 17.1 | 50.70 | 6980 | 4.97 | 6.65 | 6.72 | 0.041 |
| | 7.00 | 71.12 | 59.5 | 0.500 | 73 | 2.01 | 21.2 | 56.26 | 7530 | 4.85 | 6.43 | 6.51 | 0.045 |
| | 7.25 | 74.21 | 61.9 | 0.521 | 76 | 2.11 | 23.5 | 59.07 | 7750 | 4.79 | 6.32 | 6.41 | 0.047 |
| | 7.50 | 77.29 | 64.3 | 0.542 | 79 | 2.21 | 26.0 | 61.88 | 7970 | 4.74 | 6.22 | 6.31 | 0.050 |
| 20 gage | 4.50 | 48.60 | 32.6 | 0.292 | 42 | 1.26 | 6.3 | 35.43 | 5450 | 6.81 | 8.97 | 9.27 | 0.023 |
| | 5.00 | 56.18 | 37.5 | 0.333 | 48 | 1.48 | 8.6 | 41.65 | 5900 | 6.47 | 8.55 | 8.83 | 0.027 |
| | 5.25 | 59.96 | 40.0 | 0.354 | 51 | 1.60 | 9.8 | 44.84 | 6140 | 6.32 | 8.36 | 8.63 | 0.029 |
| | 5.50 | 63.75 | 42.6 | 0.375 | 54 | 1.71 | 11.3 | 48.07 | 6380 | 6.18 | 8.18 | 8.45 | 0.032 |
| | 6.00 | 71.32 | 48.0 | 0.417 | 60 | 1.95 | 14.5 | 54.63 | 6880 | 5.94 | 7.85 | 8.11 | 0.036 |
| | 6.25 | 75.11 | 50.8 | 0.438 | 63 | 2.07 | 16.3 | 57.96 | 7140 | 5.86 | 7.70 | 7.95 | 0.038 |
| | 6.50 | 78.90 | 53.6 | 0.458 | 66 | 2.19 | 18.2 | 61.31 | 7400 | 5.79 | 7.56 | 7.80 | 0.041 |
| | 7.00 | 86.47 | 59.5 | 0.500 | 73 | 2.43 | 22.6 | 68.09 | 7950 | 5.65 | 7.29 | 7.53 | 0.045 |
| | 7.25 | 90.26 | 61.9 | 0.521 | 76 | 2.55 | 25.0 | 71.50 | 8170 | 5.58 | 7.17 | 7.41 | 0.047 |
| | 7.50 | 94.05 | 64.3 | 0.542 | 79 | 2.67 | 27.6 | 74.93 | 8390 | 5.52 | 7.05 | 7.28 | 0.050 |
| 19 gage | 4.50 | 55.85 | 32.6 | 0.292 | 42 | 1.45 | 6.7 | 40.69 | 5850 | 7.65 | 9.76 | 10.08 | 0.023 |
| | 5.00 | 64.68 | 37.5 | 0.333 | 48 | 1.71 | 9.0 | 47.87 | 6300 | 7.26 | 9.30 | 9.61 | 0.027 |
| | 5.25 | 69.10 | 40.0 | 0.354 | 51 | 1.84 | 10.4 | 51.56 | 6540 | 7.09 | 9.09 | 9.39 | 0.029 |
| | 5.50 | 73.52 | 42.6 | 0.375 | 54 | 1.97 | 11.9 | 55.30 | 6780 | 6.93 | 8.90 | 9.19 | 0.032 |
| | 6.00 | 82.35 | 48.0 | 0.417 | 60 | 2.24 | 15.2 | 62.90 | 7280 | 6.65 | 8.54 | 8.83 | 0.036 |
| | 6.25 | 86.77 | 50.8 | 0.438 | 63 | 2.38 | 17.1 | 66.76 | 7540 | 6.56 | 8.38 | 8.66 | 0.038 |
| | 6.50 | 91.19 | 53.6 | 0.458 | 66 | 2.52 | 19.2 | 70.65 | 7800 | 6.48 | 8.23 | 8.50 | 0.041 |
| | 7.00 | 100.03 | 59.5 | 0.500 | 73 | 2.80 | 23.8 | 78.50 | 8350 | 6.32 | 7.94 | 8.20 | 0.045 |
| | 7.25 | 104.44 | 61.9 | 0.521 | 76 | 2.94 | 26.3 | 82.46 | 8570 | 6.24 | 7.81 | 8.07 | 0.047 |
| | 7.50 | 108.86 | 64.3 | 0.542 | 79 | 3.08 | 29.0 | 86.45 | 8790 | 6.17 | 7.68 | 7.94 | 0.050 |
| 18 gage | 4.50 | 62.08 | 32.6 | 0.292 | 42 | 1.62 | 7.0 | 45.34 | 6080 | 8.42 | 10.48 | 10.83 | 0.023 |
| | 5.00 | 72.04 | 37.5 | 0.333 | 48 | 1.90 | 9.5 | 53.36 | 6670 | 7.98 | 9.99 | 10.32 | 0.027 |
| | 5.25 | 77.02 | 40.0 | 0.354 | 51 | 2.05 | 10.9 | 57.48 | 6910 | 7.79 | 9.77 | 10.10 | 0.029 |
| | 5.50 | 82.00 | 42.6 | 0.375 | 54 | 2.20 | 12.4 | 61.66 | 7150 | 7.61 | 9.56 | 9.88 | 0.032 |
| | 6.00 | 91.95 | 48.0 | 0.417 | 60 | 2.50 | 15.9 | 70.18 | 7650 | 7.30 | 9.18 | 9.49 | 0.036 |
| | 6.25 | 96.93 | 50.8 | 0.438 | 63 | 2.66 | 17.9 | 74.50 | 7910 | 7.20 | 9.01 | 9.31 | 0.038 |
| | 6.50 | 101.91 | 53.6 | 0.458 | 66 | 2.81 | 20.0 | 78.85 | 8170 | 7.11 | 8.85 | 9.14 | 0.041 |
| | 7.00 | 111.87 | 59.5 | 0.500 | 73 | 3.13 | 24.8 | 87.66 | 8720 | 6.93 | 8.54 | 8.82 | 0.045 |
| | 7.25 | 116.85 | 61.9 | 0.521 | 76 | 3.28 | 27.4 | 92.10 | 8940 | 6.85 | 8.40 | 8.68 | 0.047 |
| | 7.50 | 121.83 | 64.3 | 0.542 | 79 | 3.44 | 30.2 | 96.57 | 9160 | 6.77 | 8.26 | 8.54 | 0.050 |
| 16 gage | 4.50 | 62.08 | 32.6 | 0.292 | 42 | 1.99 | 7.7 | 45.34 | 6080 | 9.58 | 11.63 | 12.02 | 0.023 |
| | 5.00 | 72.04 | 37.5 | 0.333 | 48 | 2.35 | 10.4 | 53.36 | 6980 | 9.08 | 11.10 | 11.47 | 0.027 |
| | 5.25 | 77.02 | 40.0 | 0.354 | 51 | 2.53 | 11.9 | 57.48 | 7450 | 8.85 | 10.85 | 11.22 | 0.029 |
| | 5.50 | 82.00 | 42.6 | 0.375 | 54 | 2.72 | 13.6 | 61.66 | 7940 | 8.65 | 10.63 | 10.98 | 0.032 |
| | 6.00 | 91.95 | 48.0 | 0.417 | 60 | 3.10 | 17.4 | 70.18 | 8460 | 8.29 | 10.21 | 10.55 | 0.036 |
| | 6.25 | 96.93 | 50.8 | 0.438 | 63 | 3.29 | 19.5 | 74.50 | 8720 | 8.17 | 10.02 | 10.35 | 0.038 |
| | 6.50 | 101.91 | 53.6 | 0.458 | 66 | 3.48 | 21.8 | 78.85 | 8980 | 8.07 | 9.84 | 10.17 | 0.041 |
| | 7.00 | 111.87 | 59.5 | 0.500 | 73 | 3.88 | 27.0 | 87.66 | 9530 | 7.86 | 9.50 | 9.82 | 0.045 |
| | 7.25 | 116.85 | 61.9 | 0.521 | 76 | 4.08 | 29.8 | 92.10 | 9750 | 7.77 | 9.35 | 9.66 | 0.047 |
| | 7.50 | 121.83 | 64.3 | 0.542 | 79 | 4.28 | 32.8 | 96.57 | 9970 | 7.67 | 9.20 | 9.50 | 0.050 |

| | | | L, Uniform Live Loads, psf * | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Slab Depth | ϕMn in.k | 6.00 | 6.50 | 7.00 | 7.50 | 8.00 | 8.50 | 9.00 | 9.50 | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 |
| 22 gage | 4.50 | 40.27 | 400 | 365 | 310 | 265 | 230 | 200 | 175 | 155 | 135 | 120 | 105 | 95 | 85 |
| | 5.00 | 46.44 | 400 | 400 | 360 | 305 | 265 | 230 | 200 | 175 | 155 | 140 | 125 | 110 | 95 |
| | 5.50 | 52.61 | 400 | 400 | 400 | 350 | 300 | 260 | 230 | 200 | 175 | 155 | 140 | 125 | 110 |
| | 6.00 | 58.78 | 400 | 400 | 400 | 390 | 335 | 295 | 255 | 225 | 200 | 175 | 155 | 140 | 125 |
| | 6.50 | 64.95 | 400 | 400 | 400 | 400 | 370 | 325 | 285 | 250 | 220 | 195 | 175 | 155 | 135 |
| | 7.00 | 71.12 | 400 | 400 | 400 | 400 | 400 | 355 | 310 | 275 | 240 | 215 | 190 | 170 | 150 |
| | 7.25 | 74.21 | 400 | 400 | 400 | 400 | 400 | 370 | 325 | 285 | 250 | 225 | 200 | 175 | 155 |
| | 7.50 | 77.29 | 400 | 400 | 400 | 400 | 400 | 385 | 340 | 295 | 260 | 230 | 205 | 185 | 165 |
| 20 gage | 4.50 | 48.60 | 400 | 400 | 380 | 325 | 285 | 245 | 215 | 190 | 170 | 150 | 135 | 120 | 110 |
| | 5.00 | 56.18 | 400 | 400 | 400 | 380 | 330 | 285 | 250 | 220 | 195 | 175 | 155 | 140 | 125 |
| | 5.50 | 63.75 | 400 | 400 | 400 | 400 | 375 | 325 | 285 | 250 | 225 | 200 | 175 | 160 | 140 |
| | 6.00 | 71.32 | 400 | 400 | 400 | 400 | 400 | 365 | 320 | 285 | 250 | 225 | 200 | 180 | 160 |
| | 6.50 | 78.90 | 400 | 400 | 400 | 400 | 400 | 400 | 355 | 315 | 280 | 245 | 220 | 195 | 175 |
| | 7.00 | 86.47 | 400 | 400 | 400 | 400 | 400 | 400 | 390 | 345 | 305 | 270 | 240 | 215 | 195 |
| | 7.25 | 90.26 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 360 | 320 | 285 | 255 | 225 | 205 |
| | 7.50 | 94.05 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 375 | 330 | 295 | 265 | 235 | 210 |
| 19 gage | 4.50 | 55.85 | 400 | 400 | 400 | 380 | 330 | 290 | 255 | 225 | 200 | 180 | 160 | 145 | 130 |
| | 5.00 | 64.68 | 400 | 400 | 400 | 400 | 385 | 335 | 295 | 260 | 230 | 205 | 185 | 165 | 150 |
| | 5.50 | 73.52 | 400 | 400 | 400 | 400 | 400 | 380 | 335 | 295 | 265 | 235 | 210 | 190 | 170 |
| | 6.00 | 82.35 | 400 | 400 | 400 | 400 | 400 | 400 | 375 | 335 | 295 | 265 | 235 | 215 | 190 |
| | 6.50 | 91.19 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 370 | 330 | 295 | 265 | 235 | 210 |
| | 7.00 | 100.03 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 360 | 320 | 290 | 260 | 235 |
| | 7.25 | 104.44 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 375 | 335 | 300 | 270 | 245 |
| | 7.50 | 108.86 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 395 | 350 | 315 | 280 | 255 |
| 18 gage | 4.50 | 62.08 | 400 | 400 | 400 | 400 | 370 | 325 | 285 | 255 | 225 | 200 | 180 | 160 | 145 |
| | 5.00 | 72.04 | 400 | 400 | 400 | 400 | 400 | 375 | 335 | 295 | 260 | 235 | 210 | 190 | 170 |
| | 5.50 | 82.00 | 400 | 400 | 400 | 400 | 400 | 400 | 380 | 335 | 300 | 265 | 240 | 215 | 195 |
| | 6.00 | 91.95 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 375 | 335 | 300 | 270 | 245 | 220 |
| | 6.50 | 101.91 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 375 | 335 | 300 | 270 | 245 |
| | 7.00 | 111.87 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 365 | 330 | 295 | 270 |
| | 7.25 | 116.85 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 385 | 345 | 310 | 280 |
| | 7.50 | 121.83 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 360 | 325 | 290 |
| 16 gage | 4.50 | 62.08 | 400 | 400 | 400 | 400 | 370 | 325 | 285 | 255 | 225 | 200 | 180 | 160 | 145 |
| | 5.00 | 72.04 | 400 | 400 | 400 | 400 | 400 | 375 | 335 | 295 | 260 | 235 | 210 | 190 | 170 |
| | 5.50 | 82.00 | 400 | 400 | 400 | 400 | 400 | 400 | 380 | 335 | 300 | 265 | 240 | 215 | 195 |
| | 6.00 | 91.95 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 375 | 335 | 300 | 270 | 245 | 220 |
| | 6.50 | 101.91 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 375 | 335 | 300 | 270 | 245 |
| | 7.00 | 111.87 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 365 | 330 | 295 | 270 |
| | 7.25 | 116.85 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 385 | 345 | 310 | 280 |
| | 7.50 | 121.83 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 360 | 325 | 290 |
| 22 gage | 4.50 | 29.40 | 305 | 255 | 215 | 185 | 160 | 135 | 120 | 105 | 90 | 80 | 70 | 60 | 50 |
| | 5.00 | 34.53 | 360 | 305 | 255 | 220 | 185 | 160 | 140 | 120 | 105 | 95 | 80 | 70 | 65 |
| | 5.50 | 39.81 | 400 | 350 | 295 | 255 | 215 | 190 | 165 | 140 | 125 | 110 | 95 | 85 | 75 |
| | 6.00 | 45.21 | 400 | 400 | 340 | 290 | 250 | 215 | 185 | 160 | 140 | 125 | 110 | 95 | 85 |
| | 6.50 | 50.70 | 400 | 400 | 380 | 325 | 280 | 240 | 210 | 185 | 160 | 140 | 125 | 110 | 95 |
| | 7.00 | 56.26 | 400 | 400 | 400 | 360 | 310 | 270 | 235 | 205 | 180 | 155 | 140 | 120 | 105 |
| | 7.25 | 59.07 | 400 | 400 | 400 | 380 | 325 | 285 | 245 | 215 | 190 | 165 | 145 | 130 | 115 |
| | 7.50 | 61.88 | 400 | 400 | 400 | 400 | 345 | 295 | 260 | 225 | 200 | 175 | 155 | 135 | 120 |
| 20 gage | 4.50 | 35.43 | 375 | 315 | 270 | 230 | 200 | 170 | 150 | 130 | 115 | 100 | 90 | 80 | 70 |
| | 5.00 | 41.65 | 400 | 375 | 315 | 270 | 235 | 205 | 175 | 155 | 135 | 120 | 105 | 95 | 85 |
| | 5.50 | 48.07 | 400 | 400 | 365 | 315 | 270 | 235 | 205 | 180 | 160 | 140 | 125 | 110 | 95 |
| | 6.00 | 54.63 | 400 | 400 | 400 | 360 | 310 | 270 | 235 | 205 | 180 | 160 | 140 | 125 | 110 |
| | 6.50 | 61.31 | 400 | 400 | 400 | 400 | 350 | 300 | 265 | 230 | 205 | 180 | 160 | 140 | 125 |
| | 7.00 | 68.09 | 400 | 400 | 400 | 400 | 390 | 335 | 295 | 260 | 230 | 200 | 180 | 160 | 140 |
| | 7.25 | 71.50 | 400 | 400 | 400 | 400 | 400 | 355 | 310 | 270 | 240 | 210 | 190 | 165 | 150 |
| | 7.50 | 74.93 | 400 | 400 | 400 | 400 | 400 | 370 | 325 | 285 | 250 | 225 | 200 | 175 | 155 |
| 19 gage | 4.50 | 40.69 | 400 | 370 | 315 | 270 | 230 | 200 | 175 | 155 | 135 | 120 | 105 | 95 | 85 |
| | 5.00 | 47.87 | 400 | 400 | 370 | 315 | 275 | 240 | 210 | 185 | 160 | 145 | 125 | 115 | 100 |
| | 5.50 | 55.30 | 400 | 400 | 400 | 365 | 320 | 275 | 240 | 215 | 190 | 165 | 150 | 130 | 120 |
| | 6.00 | 62.90 | 400 | 400 | 400 | 400 | 365 | 315 | 275 | 245 | 215 | 190 | 170 | 150 | 135 |
| | 6.50 | 70.65 | 400 | 400 | 400 | 400 | 400 | 355 | 310 | 275 | 245 | 215 | 190 | 170 | 155 |
| | 7.00 | 78.50 | 400 | 400 | 400 | 400 | 400 | 395 | 350 | 305 | 270 | 240 | 215 | 190 | 170 |
| | 7.25 | 82.46 | 400 | 400 | 400 | 400 | 400 | 400 | 365 | 320 | 285 | 255 | 225 | 200 | 180 |
| | 7.50 | 86.45 | 400 | 400 | 400 | 400 | 400 | 400 | 385 | 340 | 300 | 265 | 235 | 210 | 190 |
| 18 gage | 4.50 | 45.34 | 400 | 400 | 350 | 300 | 260 | 230 | 200 | 175 | 155 | 140 | 125 | 110 | 100 |
| | 5.00 | 53.36 | 400 | 400 | 400 | 355 | 310 | 270 | 235 | 210 | 185 | 165 | 145 | 130 | 115 |
| | 5.50 | 61.66 | 400 | 400 | 400 | 400 | 360 | 315 | 275 | 240 | 215 | 190 | 170 | 150 | 135 |
| | 6.00 | 70.18 | 400 | 400 | 400 | 400 | 400 | 360 | 315 | 275 | 245 | 220 | 195 | 175 | 155 |
| | 6.50 | 78.85 | 400 | 400 | 400 | 400 | 400 | 400 | 355 | 310 | 275 | 245 | 220 | 195 | 175 |
| | 7.00 | 87.66 | 400 | 400 | 400 | 400 | 400 | 400 | 395 | 350 | 310 | 275 | 245 | 220 | 195 |
| | 7.25 | 92.10 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 365 | 325 | 290 | 260 | 230 | 210 |
| | 7.50 | 96.57 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 385 | 340 | 305 | 270 | 245 | 220 |
| 16 gage | 4.50 | 45.34 | 400 | 400 | 350 | 300 | 260 | 230 | 200 | 175 | 155 | 140 | 125 | 110 | 100 |
| | 5.00 | 53.36 | 400 | 400 | 400 | 355 | 310 | 270 | 235 | 210 | 185 | 165 | 145 | 130 | 115 |
| | 5.50 | 61.66 | 400 | 400 | 400 | 400 | 360 | 315 | 275 | 240 | 215 | 190 | 170 | 150 | 135 |
| | 6.00 | 70.18 | 400 | 400 | 400 | 400 | 400 | 360 | 315 | 275 | 245 | 220 | 195 | 175 | 155 |
| | 6.50 | 78.85 | 400 | 400 | 400 | 400 | 400 | 400 | 355 | 310 | 275 | 245 | 220 | 195 | 175 |
| | 7.00 | 87.66 | 400 | 400 | 400 | 400 | 400 | 400 | 395 | 350 | 310 | 275 | 245 | 220 | 195 |
| | 7.25 | 92.10 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 365 | 325 | 290 | 260 | 230 | 210 |
| | 7.50 | 96.57 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 385 | 340 | 305 | 270 | 245 | 220 |

LRFD

1 STUD/FT.

NO STUDS

* The **Uniform Live Loads** are based on the LRFD equation $\phi M_n = (1.6L + 1.2D)l^2/8$. Although there are other load combinations that may require investigation, this will control most of the time. The equation assumes there is no negative bending reinforcement over the beams and therefore each composite slab is a single span. Two sets of values are shown; $\phi M_{nf}$ is used to calculate the uniform load when the full required number of studs is present; $\phi M_{no}$ is used to calculate the load when no studs are present. A straight line interpolation can be done if the average number of studs is between zero and the required number needed to develop the "full" factored moment. The tabulated loads are checked for shear controlling (it seldom does), and also limited to a live load deflection of 1/360 of the span.

An upper limit of 400 psf has been applied to the tabulated loads. This has been done to guard against equating large concentrated to uniform loads. Concentrated loads may require special analysis and design to take care of servicibility requirements not covered by simply using a uniform load value. On the other hand, for any load combination the values provided by the composite properties can be used in the calculations.

Welded wire fabric in the required amount is assumed for the table values. If welded wire fabric is not present, deduct 10% from the listed loads.

Refer to the example problems for the use of the tables.