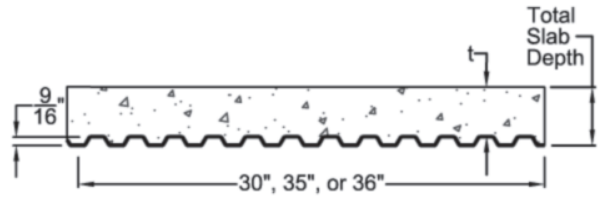


0.6 C, CSV CONFORM



MAXIMUM CONSTRUCTION CLEAR SPANS (S.D.I. CRITERIA)

| Total Slab Depth | DECK | WEIGHT PSF | NW CONCRETE N=9 145 PCF | | | WEIGHT PSF | LW CONCRETE N=14 110 PCF | | |
|------------------|--------|------------|----------------------------|--------|--------|------------|-----------------------------|--------|--------|
| | | | 1 SPAN | 2 SPAN | 3 SPAN | | 1 SPAN | 2 SPAN | 3 SPAN |
| 2 (t=1.50) | 0.6C28 | 23 | 2-3 | 2-10 | 2-11 | 17 | 2-4 | 2-11 | 3-0 |
| | 0.6C26 | 23 | 2-8 | 3-5 | 3-5 | 18 | 2-9 | 3-6 | 3-7 |
| | 0.6C24 | 23 | 3-4 | 4-3 | 4-4 | 18 | 3-6 | 4-6 | 4-6 |
| | 0.6C22 | 23 | 3-10 | 5-0 | 5-1 | 18 | 4-1 | 5-3 | 5-4 |
| 2.5 (t=2.00) | 0.6C28 | 29 | 2-2 | 2-9 | 2-9 | 22 | 2-3 | 2-10 | 2-11 |
| | 0.6C26 | 29 | 2-6 | 3-3 | 3-4 | 22 | 2-8 | 3-5 | 3-6 |
| | 0.6C24 | 29 | 3-2 | 4-1 | 4-2 | 22 | 3-4 | 4-4 | 4-4 |
| | 0.6C22 | 29 | 3-8 | 4-9 | 4-10 | 23 | 3-11 | 5-1 | 5-1 |
| 3 (t=2.50) | 0.6C28 | 35 | 2-1 | 2-8 | 2-8 | 27 | 2-2 | 2-9 | 2-10 |
| | 0.6C26 | 35 | 2-5 | 3-2 | 3-2 | 27 | 2-7 | 3-4 | 3-4 |
| | 0.6C24 | 35 | 3-0 | 3-11 | 3-11 | 27 | 3-2 | 4-2 | 4-2 |
| | 0.6C22 | 36 | 3-6 | 4-7 | 4-7 | 27 | 3-9 | 4-10 | 4-11 |
| 3.5 (t=3.00) | 0.6C28 | 41 | 2-0 | 2-7 | 2-7 | 31 | 2-1 | 2-9 | 2-9 |
| | 0.6C26 | 41 | 2-4 | 3-0 | 3-1 | 31 | 2-6 | 3-3 | 3-3 |
| | 0.6C24 | 41 | 2-10 | 3-9 | 3-10 | 32 | 3-1 | 4-0 | 4-1 |
| | 0.6C22 | 42 | 3-4 | 4-5 | 4-5 | 32 | 3-7 | 4-8 | 4-9 |
| 4 (t=3.50) | 0.6C28 | 47 | 1-11 | 2-6 | 2-6 | 36 | 2-1 | 2-8 | 2-8 |
| | 0.6C26 | 47 | 2-3 | 2-11 | 3-0 | 36 | 2-5 | 3-1 | 3-2 |
| | 0.6C24 | 47 | 2-9 | 3-8 | 3-8 | 36 | 3-0 | 3-11 | 3-11 |
| | 0.6C22 | 48 | 3-2 | 4-3 | 4-3 | 36 | 3-5 | 4-6 | 4-7 |
| 4.5 (t=4.00) | 0.6C28 | 53 | 1-10 | 2-5 | 2-6 | 40 | 2-0 | 2-7 | 2-7 |
| | 0.6C26 | 53 | 2-2 | 2-10 | 2-11 | 40 | 2-4 | 3-1 | 3-1 |
| | 0.6C24 | 53 | 2-8 | 3-6 | 3-7 | 41 | 2-11 | 3-9 | 3-10 |
| | 0.6C22 | 54 | 3-1 | 4-1 | 4-1 | 41 | 3-4 | 4-5 | 4-5 |
| 5 (t=4.50) | 0.6C28 | 59 | 1-10 | 2-5 | 2-5 | 45 | 1-11 | 2-6 | 2-7 |
| | 0.6C26 | 59 | 2-1 | 2-9 | 2-10 | 45 | 2-3 | 3-0 | 3-0 |
| | 0.6C24 | 59 | 2-7 | 3-5 | 3-6 | 45 | 2-10 | 3-8 | 3-9 |
| | 0.6C22 | 60 | 3-0 | 3-11 | 4-0 | 46 | 3-3 | 4-3 | 4-4 |

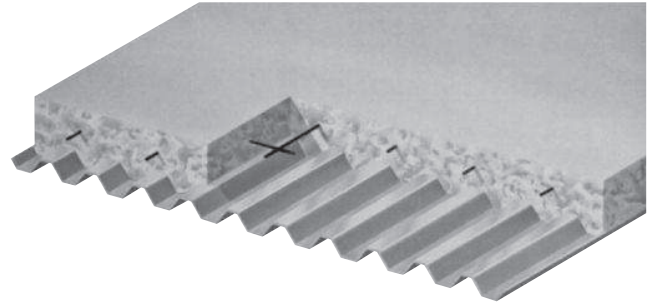
REINFORCED CONCRETE SLAB ALLOWABLE LOADS

| Slab Depth | REINFORCEMENT | | Superimposed Uniform Load (psf) – 3 Span Condition | | | | | | | | | | |
|-----------------|---------------|--------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | Clear Span (ft.-in.) | | | | | | | | | | |
| | W.W.F. | As | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-6 | 5-0 |
| 2 (t=1.50) | 6X6-W1.4XW1.4 | 0.028* | 194 | 153 | 124 | 103 | 86 | 74 | 63 | | | | |
| | 6X6-W2.1XW2.1 | 0.042 | 285 | 225 | 183 | 151 | 127 | 108 | 93 | | | | |
| | 6X6-W2.9XW2.9 | 0.058 | 384 | 304 | 246 | 203 | 171 | 146 | 125 | | | | |
| 2.5 (t=2.00) | 6X6-W1.4XW1.4 | 0.028* | 268 | 212 | 172 | 142 | 119 | 102 | 88 | 76 | 67 | 53 | |
| | 6X6-W2.1XW2.1 | 0.042 | 396 | 313 | 254 | 210 | 176 | 150 | 129 | 113 | 99 | 78 | |
| | 6X6-W2.9XW2.9 | 0.058 | 400 | 400 | 344 | 284 | 239 | 204 | 176 | 153 | 134 | 106 | |
| 3 (t=2.50) | 6X6-W1.4XW1.4 | 0.028* | 342 | 271 | 219 | 181 | 152 | 130 | 112 | 97 | 86 | | |
| | 6X6-W2.1XW2.1 | 0.042* | 400 | 400 | 325 | 268 | 226 | 192 | 166 | 144 | 127 | | |
| | 6X6-W2.9XW2.9 | 0.058 | 400 | 400 | 400 | 366 | 307 | 262 | 226 | 197 | 173 | | |
| 3.5 (t=3.00) | 6X6-W2.1XW2.1 | 0.042* | 400 | 400 | 396 | 327 | 275 | 234 | 202 | 176 | 155 | | |
| | 6X6-W2.9XW2.9 | 0.058* | 400 | 400 | 400 | 400 | 375 | 320 | 276 | 240 | 211 | | |
| | 4X4-W2.9XW2.9 | 0.087 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 353 | 310 | | |
| 4 (t=3.50) | 6X6-W2.1XW2.1 | 0.042* | 400 | 400 | 400 | 384 | 322 | 275 | 237 | 206 | 181 | | |
| | 6X6-W2.9XW2.9 | 0.058* | 400 | 400 | 400 | 400 | 400 | 372 | 321 | 280 | 246 | | |
| | 4X4-W2.9XW2.9 | 0.087 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 358 | | |
| 4.5 (t=4.00) | 6X6-W2.9XW2.9 | 0.058* | 400 | 400 | 400 | 400 | 400 | 400 | 359 | 313 | 275 | | |
| | 4X4-W2.9XW2.9 | 0.087 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | | |
| | 4X4-W4.0XW4.0 | 0.120 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | | |
| 5 (t=4.50) | 6X6-W2.9XW2.9 | 0.058* | 400 | 400 | 400 | 400 | 400 | 400 | 396 | 345 | 303 | | |
| | 4X4-W2.9XW2.9 | 0.087* | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | | |
| | 4X4-W4.0XW4.0 | 0.120 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | | |

- NOTES:
- * As does not meet A.C.I. criterion for temperature and shrinkage.
 - Recommended conform types are based upon S.D.I. criteria and normal weight concrete.
 - Superimposed loads are based upon three span conditions and A.C.I. moment coefficients.
 - Load values for single span and double spans are to be reduced.
 - Vulcraft's painted or galvanized form deck can be considered as permanent support in most building applications. See page 23. If uncoated form deck is used, deduct the weight of the slab from the allowable superimposed uniform loads.

SLAB INFORMATION

| Total Slab Depth, in. | Theo. Concrete Volume | | Recommended Welded Wire Fabric |
|-----------------------|---------------------------------------|-----------------------------------|--------------------------------|
| | Yd ³ / 100 ft ² | ft ³ / ft ² | |
| 2 | 0.52 | 0.142 | 6x6 - W1.4xW1.4 |
| 2 1/2 | 0.68 | 0.183 | 6x6 - W1.4xW1.4 |
| 3 | 0.83 | 0.225 | 6x6 - W1.4xW1.4 |
| 3 1/4 | 0.91 | 0.246 | 6x6 - W1.4xW1.4 |
| 3 1/2 | 0.99 | 0.267 | 6x6 - W2.1xW2.1 |
| 4 | 1.14 | 0.308 | 6x6 - W2.1xW2.1 |
| 4 1/4 | 1.22 | 0.329 | 6x6 - W2.1xW2.1 |
| 4 1/2 | 1.30 | 0.350 | 6x6 - W2.1xW2.1 |



SECTION PROPERTIES

| Deck Type | Design Thickness in. | Deck Weight psf | Section Properties | | | | V _a lbs/ft | F _y ksi |
|-----------|----------------------|-----------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------|--------------------|
| | | | I _p in ⁴ /ft | I _n in ⁴ /ft | S _p in ³ /ft | S _n in ³ /ft | | |
| 0.6C28 | 0.0149 | 0.76 | 0.012 | 0.012 | 0.035 | 0.036 | 2029 | 60 |
| 0.6C26 | 0.0179 | 0.91 | 0.015 | 0.015 | 0.043 | 0.043 | 2928 | 60 |
| 0.6C24 | 0.0239 | 1.21 | 0.019 | 0.019 | 0.057 | 0.057 | 4064 | 60 |
| 0.6C22 | 0.0295 | 1.49 | 0.024 | 0.024 | 0.070 | 0.070 | 5048 | 60 |

ALLOWABLE UNIFORM LOAD (PSF)

| TYPE NO. | NO. OF SPANS | DESIGN CRITERIA | CLEAR SPAN (ft-in) | | | | | | | | | | | | |
|----------|---------------|-----------------|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 2-0 | 2-3 | 2-6 | 2-9 | 3-0 | 3-3 | 3-6 | 3-9 | 4-0 | 4-6 | 5-0 | 5-6 | 6-0 |
| 0.6C28 | 1 | Fb = 36,000 | 210 | 166 | 134 | 111 | 93 | 79 | 68 | 60 | 52 | 41 | 34 | 28 | 23 |
| | | Defl. = l/240 | 98 | 69 | 50 | 38 | 29 | 23 | 18 | 15 | 12 | 9 | 6 | 5 | 4 |
| | | Defl. = l/180 | 131 | 92 | 67 | 51 | 39 | 31 | 25 | 20 | 16 | 12 | 8 | 6 | 5 |
| | 2 | Fb = 36,000 | 214 | 169 | 137 | 113 | 95 | 81 | 70 | 61 | 54 | 43 | 34 | 28 | 24 |
| | | Defl. = l/240 | 237 | 167 | 121 | 91 | 70 | 55 | 44 | 36 | 30 | 21 | 15 | 11 | 9 |
| | | Defl. = l/180 | 316 | 222 | 162 | 122 | 94 | 74 | 59 | 48 | 40 | 28 | 20 | 15 | 12 |
| 3 | Fb = 36,000 | 266 | 211 | 171 | 142 | 119 | 102 | 88 | 76 | 67 | 53 | 43 | 36 | 30 | |
| | Defl. = l/240 | 186 | 130 | 95 | 71 | 55 | 43 | 35 | 28 | 23 | 16 | 12 | 9 | 7 | |
| | Defl. = l/180 | 247 | 174 | 127 | 95 | 73 | 58 | 46 | 38 | 31 | 22 | 16 | 12 | 9 | |
| 0.6C26 | 1 | Fb = 36,000 | 257 | 203 | 165 | 136 | 114 | 98 | 84 | 73 | 64 | 51 | 41 | 34 | 29 |
| | | Defl. = l/240 | 123 | 86 | 63 | 47 | 36 | 29 | 23 | 19 | 15 | 11 | 8 | 6 | 5 |
| | | Defl. = l/180 | 164 | 115 | 84 | 63 | 49 | 38 | 31 | 25 | 21 | 14 | 11 | 8 | 6 |
| | 2 | Fb = 36,000 | 256 | 202 | 164 | 136 | 114 | 97 | 84 | 73 | 64 | 51 | 41 | 34 | 29 |
| | | Defl. = l/240 | 296 | 208 | 152 | 114 | 88 | 69 | 55 | 45 | 37 | 26 | 19 | 14 | 11 |
| | | Defl. = l/180 | 395 | 278 | 202 | 152 | 117 | 92 | 74 | 60 | 49 | 35 | 25 | 19 | 15 |
| 3 | Fb = 36,000 | 319 | 253 | 205 | 169 | 142 | 121 | 105 | 91 | 80 | 63 | 51 | 43 | 36 | |
| | Defl. = l/240 | 232 | 163 | 119 | 89 | 69 | 54 | 43 | 35 | 29 | 20 | 15 | 11 | 9 | |
| | Defl. = l/180 | 309 | 217 | 158 | 119 | 92 | 72 | 58 | 47 | 39 | 27 | 20 | 15 | 11 | |
| 0.6C24 | 1 | Fb = 36,000 | 341 | 270 | 218 | 181 | 152 | 129 | 111 | 97 | 85 | 67 | 55 | 45 | 38 |
| | | Defl. = l/240 | 156 | 110 | 80 | 60 | 46 | 36 | 29 | 24 | 19 | 14 | 10 | 7 | 6 |
| | | Defl. = l/180 | 208 | 146 | 106 | 80 | 62 | 48 | 39 | 32 | 26 | 18 | 13 | 10 | 8 |
| | 2 | Fb = 36,000 | 339 | 269 | 218 | 180 | 151 | 129 | 111 | 97 | 85 | 67 | 55 | 45 | 38 |
| | | Defl. = l/240 | 375 | 264 | 192 | 144 | 111 | 87 | 70 | 57 | 47 | 33 | 24 | 18 | 14 |
| | | Defl. = l/180 | 501 | 352 | 256 | 193 | 148 | 117 | 93 | 76 | 63 | 44 | 32 | 24 | 19 |
| 3 | Fb = 36,000 | 423 | 335 | 272 | 225 | 189 | 161 | 139 | 121 | 106 | 84 | 68 | 56 | 47 | |
| | Defl. = l/240 | 294 | 206 | 150 | 113 | 87 | 68 | 55 | 45 | 37 | 26 | 19 | 14 | 11 | |
| | Defl. = l/180 | 392 | 275 | 201 | 151 | 116 | 91 | 73 | 59 | 49 | 34 | 25 | 19 | 15 | |
| 0.6C22 | 1 | Fb = 36,000 | 419 | 331 | 268 | 222 | 186 | 159 | 137 | 119 | 105 | 83 | 67 | 55 | 47 |
| | | Defl. = l/240 | 197 | 138 | 101 | 76 | 58 | 46 | 37 | 30 | 25 | 17 | 13 | 9 | 7 |
| | | Defl. = l/180 | 263 | 184 | 134 | 101 | 78 | 61 | 49 | 40 | 33 | 23 | 17 | 13 | 10 |
| | 2 | Fb = 36,000 | 417 | 330 | 267 | 221 | 186 | 158 | 137 | 119 | 105 | 83 | 67 | 55 | 47 |
| | | Defl. = l/240 | 474 | 333 | 243 | 182 | 141 | 111 | 88 | 72 | 59 | 42 | 30 | 23 | 18 |
| | | Defl. = l/180 | 632 | 444 | 324 | 243 | 187 | 147 | 118 | 96 | 79 | 56 | 40 | 30 | 23 |
| 3 | Fb = 36,000 | 520 | 411 | 334 | 276 | 232 | 198 | 171 | 149 | 131 | 103 | 84 | 69 | 58 | |
| | Defl. = l/240 | 371 | 261 | 190 | 143 | 110 | 86 | 69 | 56 | 46 | 33 | 24 | 18 | 14 | |
| | Defl. = l/180 | 495 | 348 | 253 | 190 | 147 | 115 | 92 | 75 | 62 | 43 | 32 | 24 | 18 | |

NON-COMPOSITE