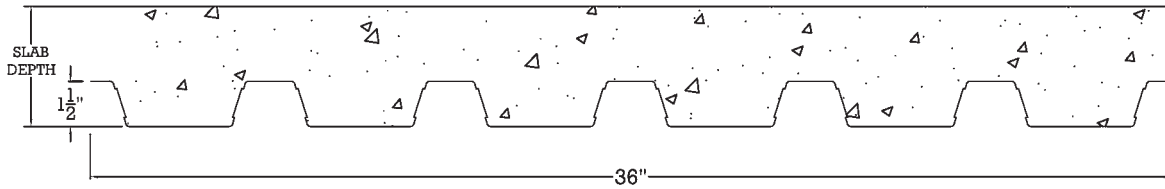


TYPE "1.5 ICF" COMPOSITE FLOOR DECK



SECTION PROPERTIES FY=50 KSI FOR 22, 20, & 18 GAGE
FY=40 KSI FOR 16 GAGE

| DECK TYPE | DESIGN THICKNESS | WT PSF | I ^P IN. ⁴ | I ^N IN. ⁴ | S ^P IN. ³ | S ^N IN. ³ |
|-----------|------------------|--------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| 22 | .0295 IN. | 1.64 | .173 | .135 | .181 | .172 |
| 20 | .0358 IN. | 1.99 | .219 | .174 | .231 | .223 |
| 18 | .0474 IN. | 2.64 | .297 | .255 | .315 | .304 |
| 16 | .0598 IN. | 3.34 | .379 | .348 | .401 | .392 |

GENERAL INFORMATION

| SLAB THICKNESS | 3 1/2" | 4" | 4 1/2" | 5 | 5 1/4" | 5 1/2" | 6" |
|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Vol. Conc. Yds/100SF | .92 | 1.07 | 1.22 | 1.38 | 1.45 | 1.53 | 1.69 |
| Conc. Wt. PSF (Normal Wt.) | 36 | 42 | 48 | 54 | 57 | 60 | 66 |
| Recommended W.W.F. 6"x6" | W1.4XW1.4 | W1.4XW1.4 | W1.4XW1.4 | W1.4XW1.4 | W1.4XW1.4 | W2.1XW2.1 | W2.1XW2.1 |

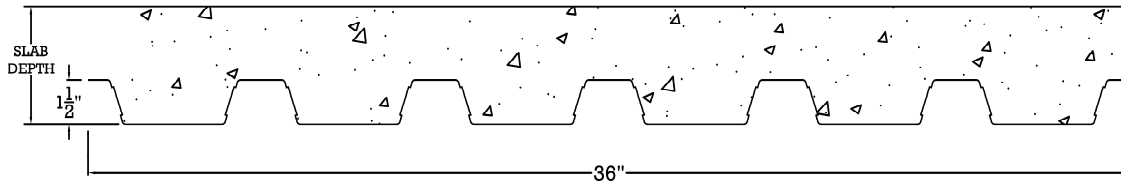
| SLAB DEPTH | DECK TYPE | ALLOWABLE UNSHORED CLEAR SPAN | | SUPERIMPOSED LIVE LOAD, PSF | | | | | | | | | | | | | | |
|----------------------------------|-----------------|-------------------------------|------|-----------------------------|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| | | | | CLEAR SPAN, FT. | | | | | | | | | | | | | | |
| | | | | 1 SPAN | 2 SPAN | 3 SPAN | 6-0 | 6-6 | 7-0 | 7-6 | 8-0 | 8-6 | 9-0 | 9-6 | 10-0 | 10-6 | 11-0 | 11-6 |
| NORMAL WEIGHT CONCRETE (145 PCF) | 3 1/2" (t=2) | 22 | 6-0 | 7-10 | 8-2 | * | 389 | 332 | 285 | 247 | 216 | 189 | 167 | 113 | 100 | 88 | 78 | 70 |
| | | 20 | 7-0 | 8-11 | 9-3 | * | * | 399 | 344 | 299 | 255 | 215 | 182 | 139 | 123 | 110 | 98 | 88 |
| | | 18 | 8-5 | 10-5 | 10-9 | * | * | * | * | 341 | 284 | 239 | 203 | 174 | 151 | 131 | 115 | 101 |
| | | 16 | 9-5 | 11-9 | 11-7 | * | * | * | * | 374 | 311 | 262 | 223 | 191 | 165 | 144 | 126 | 111 |
| | 4" (t=2 1/2) | 22 | 5-8 | 7-5 | 7-9 | * | * | * | 345 | 300 | 262 | 230 | 203 | 137 | 122 | 108 | 96 | 85 |
| | | 20 | 6-7 | 8-6 | 8-9 | * | * | * | * | 362 | 317 | 279 | 247 | 169 | 150 | 134 | 120 | 107 |
| | | 18 | 8-0 | 9-10 | 10-2 | * | * | * | * | * | * | 345 | 294 | 226 | 202 | 181 | 162 | 146 |
| | | 16 | 9-0 | 11-2 | 11-1 | * | * | * | * | * | * | 379 | 322 | 276 | 238 | 207 | 181 | 160 |
| | 4 1/2" (t=3) | 22 | 5-5 | 7-1 | 7-4 | * | * | * | * | 354 | 309 | 272 | 240 | 163 | 144 | 128 | 114 | 102 |
| | | 20 | 6-3 | 8-1 | 8-4 | * | * | * | * | * | 375 | 330 | 293 | 201 | 179 | 159 | 143 | 128 |
| | | 18 | 7-7 | 9-5 | 9-9 | * | * | * | * | * | * | * | 386 | 268 | 240 | 215 | 193 | 174 |
| | | 16 | 8-8 | 10-8 | 10-8 | * | * | * | * | * | * | * | * | 336 | 302 | 271 | 245 | 221 |
| | 5" (t=3 1/2) | 22 | 5-2 | 6-10 | 7-0 | * | * | * | * | * | 357 | 314 | 278 | 189 | 167 | 149 | 133 | 118 |
| | | 20 | 6-0 | 7-9 | 8-0 | * | * | * | * | * | * | 383 | 339 | 233 | 207 | 185 | 166 | 149 |
| | | 18 | 7-3 | 9-0 | 9-4 | * | * | * | * | * | * | * | * | 311 | 278 | 250 | 225 | 203 |
| | | 16 | 8-3 | 10-2 | 10-3 | * | * | * | * | * | * | * | * | 392 | 351 | 316 | 286 | 259 |
| | 5 1/2" (t=4) | 22 | 5-0 | 6-6 | 6-9 | * | * | * | * | * | * | 357 | 316 | 215 | 191 | 170 | 151 | 135 |
| | | 20 | 5-9 | 7-5 | 7-8 | * | * | * | * | * | * | * | 386 | 266 | 237 | 212 | 190 | 170 |
| | | 18 | 6-11 | 8-8 | 9-0 | * | * | * | * | * | * | * | * | 356 | 318 | 286 | 257 | 233 |
| | | 16 | 7-11 | 9-10 | 9-11 | * | * | * | * | * | * | * | * | * | * | 362 | 327 | 296 |
| | 6" (t=4 1/2) | 22 | 4-10 | 6-4 | 6-6 | * | * | * | * | * | * | * | 355 | 242 | 215 | 191 | 171 | 152 |
| | | 20 | 5-7 | 7-2 | 7-5 | * | * | * | * | * | * | * | * | 299 | 266 | 238 | 214 | 192 |
| | | 18 | 6-9 | 8-4 | 8-8 | * | * | * | * | * | * | * | * | * | 358 | 322 | 290 | 262 |
| | | 16 | 7-9 | 9-6 | 9-8 | * | * | * | * | * | * | * | * | * | * | * | 369 | 335 |

* MINIMUM EXTERIOR BEARING LENGTH REQUIRED IS 1.5 INCHES.

* MINIMUM INTERIOR BEARING LENGTH REQUIRED IS 3.0 INCHES.

LOAD TABLES AND SECTION PROPERTIES WERE GENERATED BY THE SDI. * INDICATES LIVE LOADS IN EXCESS OF 400 P.S.F. UNDERWRITES LABORATORIES, INC. FIRE RATED FLOOR DESIGN ASSEMBLY LIVE LOAD LIMIT FOR COMPOSITE DECK SLABS IS 250 PSF. ROLLED IN HANGER TABS ALSO AVAILABLE UPON REQUEST

TYPE "1.5 CF" COMPOSITE FLOOR DECK



SECTION PROPERTIES FY=50 KSI FOR 22, 20, & 18 GAGE
FY=40 KSI FOR 16 GAGE

| DECK TYPE | DESIGN THICKNESS | WT PSF | I ^P IN. ⁴ | I ^N IN. ⁴ | S ^P IN. ³ | S ^N IN. ³ |
|-----------|------------------|--------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| 22 | .0295 IN. | 1.64 | .173 | .135 | .181 | .172 |
| 20 | .0358 IN. | 1.99 | .219 | .174 | .231 | .223 |
| 18 | .0474 IN. | 2.64 | .297 | .255 | .315 | .304 |
| 16 | .0598 IN. | 3.34 | .379 | .348 | .401 | .392 |

GENERAL INFORMATION

| SLAB THICKNESS | 3 1/2" | 4" | 4 1/2" | 5 | 5 1/4" | 5 1/2" | 6" |
|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Vol. Conc. Yds/100SF | .92 | 1.07 | 1.22 | 1.38 | 1.45 | 1.53 | 1.69 |
| Conc. Wt. PSF (Light Wt.) | 27 | 32 | 36 | 41 | 43 | 46 | 50 |
| Recommended W.W.F. 6"x6" | W1.4XW1.4 | W1.4XW1.4 | W1.4XW1.4 | W1.4XW1.4 | W1.4XW1.4 | W2.1XW2.1 | W2.1XW2.1 |

| LIGHT WEIGHT CONCRETE (110 PCF) | SLAB DEPTH | DECK TYPE | ALLOWABLE UNSHORED CLEAR SPAN | | | SUPERIMPOSED LIVE LOAD, PSF | | | | | | | | | | | | |
|---------------------------------|-----------------|-----------|-------------------------------|--------|--------|-----------------------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| | | | 1 SPAN | 2 SPAN | 3 SPAN | CLEAR SPAN, FT. | | | | | | | | | | | | |
| | | | | | | 6-0 | 6-6 | 7-0 | 7-6 | 8-0 | 8-6 | 9-0 | 9-6 | 10-0 | 10-6 | 11-0 | 11-6 | 12-0 |
| | 3 1/2" (t=2) | 22 | 6-6 | 8-5 | 8-9 | * | 380 | 325 | 280 | 232 | 193 | 163 | 138 | 114 | 101 | 89 | 78 | 69 |
| | | 20 | 7-7 | 9-7 | 9-11 | * | * | 374 | 304 | 250 | 209 | 176 | 150 | 128 | 111 | 96 | 84 | 74 |
| | | 18 | 9-2 | 11-2 | 11-6 | * | * | * | 341 | 281 | 234 | 197 | 168 | 144 | 124 | 108 | 95 | 83 |
| | | 16 | 10-1 | 12-7 | 12-2 | * | * | * | 375 | 309 | 258 | 217 | 184 | 158 | 137 | 119 | 104 | 92 |
| | 4" (t=2 1/2) | 22 | 6-2 | 8-1 | 8-4 | * | * | 394 | 340 | 296 | 259 | 228 | 200 | 139 | 123 | 110 | 98 | 88 |
| | | 20 | 7-2 | 9-2 | 9-6 | * | * | * | * | 355 | 301 | 254 | 206 | 169 | 151 | 135 | 121 | 107 |
| | | 18 | 8-8 | 10-8 | 11-0 | * | * | * | * | * | 337 | 284 | 242 | 207 | 179 | 156 | 136 | 120 |
| | | 16 | 9-8 | 12-0 | 11-9 | * | * | * | * | * | 371 | 312 | 266 | 228 | 197 | 171 | 150 | 132 |
| | 4 1/2" (t=3) | 22 | 5-11 | 7-9 | 8-0 | * | * | * | * | 349 | 306 | 270 | 239 | 164 | 146 | 131 | 117 | 105 |
| | | 20 | 6-10 | 8-9 | 9-1 | * | * | * | * | * | 369 | 326 | 289 | 201 | 179 | 161 | 144 | 130 |
| | | 18 | 8-3 | 10-2 | 10-6 | * | * | * | * | * | * | 393 | 334 | 264 | 237 | 213 | 188 | 166 |
| | | 16 | 9-3 | 11-6 | 11-5 | * | * | * | * | * | * | * | 367 | 315 | 272 | 236 | 207 | 182 |
| | 5" (t=3 1/2) | 22 | 5-8 | 7-5 | 7-8 | * | * | * | * | * | 355 | 313 | 277 | 191 | 170 | 152 | 136 | 122 |
| | | 20 | 6-7 | 8-5 | 8-9 | * | * | * | * | * | * | 378 | 336 | 233 | 208 | 187 | 168 | 152 |
| | | 18 | 7-11 | 9-9 | 10-2 | * | * | * | * | * | * | * | * | 308 | 276 | 248 | 224 | 203 |
| | | 16 | 8-11 | 11-1 | 11-1 | * | * | * | * | * | * | * | * | 384 | 345 | 311 | 276 | 243 |
| | 5 1/2" (t=4) | 22 | 5-5 | 7-2 | 7-5 | * | * | * | * | * | * | 356 | 316 | 218 | 194 | 174 | 156 | 140 |
| | | 20 | 6-4 | 8-1 | 8-5 | * | * | * | * | * | * | * | 383 | 266 | 238 | 214 | 192 | 173 |
| | | 18 | 7-7 | 9-5 | 9-9 | * | * | * | * | * | * | * | * | 352 | 316 | 284 | 257 | 233 |
| | | 16 | 8-5 | 10-8 | 10-8 | * | * | * | * | * | * | * | * | * | 395 | 357 | 323 | 294 |
| 6" (t=4 1/2) | 22 | 5-3 | 6-11 | 7-1 | * | * | * | * | * | * | * | 355 | 245 | 219 | 195 | 175 | 158 | |
| | 20 | 6-1 | 7-10 | 8-1 | * | * | * | * | * | * | * | 396 | 300 | 268 | 241 | 217 | 196 | |
| | 18 | 7-4 | 9-1 | 9-5 | * | * | * | * | * | * | * | * | 397 | 356 | 321 | 290 | 263 | |
| | 16 | 8-5 | 10-4 | 10-5 | * | * | * | * | * | * | * | * | * | * | 365 | 323 | 294 | |

* MINIMUM EXTERIOR BEARING LENGTH REQUIRED IS 1.5 INCHES.

* MINIMUM INTERIOR BEARING LENGTH REQUIRED IS 3.0 INCHES.

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