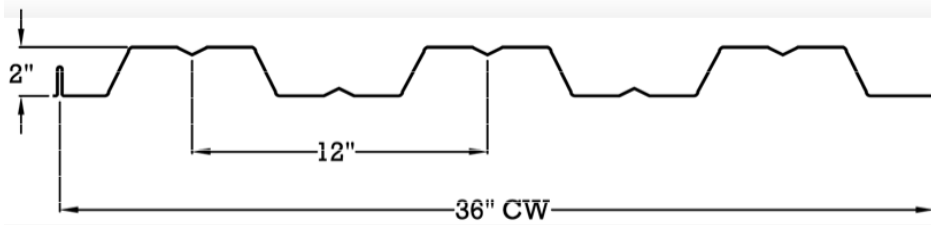


TYPE "2.0NCF" NON-COMPOSITE FORM DECK



SECTION PROPERTIES

FY=50 KSI

ASD ($\Omega=1.67$)

| DECK TYPE | DESIGN THICKNESS | WT PSF | FINISH | I^P IN. ⁴ | I^N IN. ⁴ | S^P IN. ³ | S^N IN. ³ | M^P/Ω IN. - LBS. PER FT. | M^N/Ω IN. - LBS. PER FT. |
|-----------|------------------|--------|--------|------------------------|------------------------|------------------------|------------------------|---------------------------------------|---------------------------------------|
| 22 | .0295 IN. | 1.58 | GALV. | 0.297 | 0.277 | 0.235 | 0.246 | 7037 | 7351 |
| 20 | .0358 IN. | 1.90 | GALV. | 0.373 | 0.357 | 0.314 | 0.326 | 9401 | 9760 |
| 18 | .0474 IN. | 2.50 | GALV. | 0.522 | 0.507 | 0.473 | 0.486 | 14172 | 14551 |
| 16 | .0598 IN. | 3.19 | GALV. | 0.680 | 0.670 | 0.645 | 0.643 | 19301 | 19251 |

| DECK-SPAN | DECK TYPE | DESIGN THICKNESS | DECK SUPPORT SPACING (FT. - IN.) | | | | | | | | | | |
|-----------|-----------|------------------|----------------------------------|-----|-----|-----|------|------|------|------|------|------|------|
| | | | 6-0 | 7-0 | 8-0 | 9-0 | 10-0 | 11-0 | 12-0 | 13-0 | 14-0 | 15-0 | 16-0 |
| SIMPLE | 22 | STRESS DOWNWARD | 130 | 96 | 73 | 58 | 47 | 39 | 33 | 28 | 24 | 21 | 18 |
| | | DEFLECTION L/240 | 84 | 53 | 35 | 25 | 18 | 14 | 11 | 8 | 7 | 5 | 4 |
| | 20 | STRESS DOWNWARD | 174 | 128 | 98 | 77 | 63 | 52 | 44 | 37 | 32 | 28 | 24 |
| | | DEFLECTION L/240 | 108 | 68 | 46 | 32 | 23 | 18 | 14 | 11 | 9 | 7 | 6 |
| | 18 | STRESS DOWNWARD | 262 | 193 | 148 | 117 | 94 | 78 | 66 | 56 | 48 | 42 | 37 |
| | | DEFLECTION L/240 | 154 | 97 | 65 | 46 | 33 | 25 | 19 | 15 | 12 | 10 | 8 |
| | 16 | STRESS DOWNWARD | 357 | 263 | 201 | 159 | 129 | 106 | 89 | 76 | 66 | 57 | 50 |
| | | DEFLECTION L/240 | 204 | 128 | 86 | 60 | 44 | 33 | 25 | 20 | 16 | 13 | 11 |

| | | | | | | | | | | | | | |
|--------|----|------------------|-----|-----|-----|-----|-----|-----|----|----|----|----|----|
| DOUBLE | 22 | STRESS DOWNWARD | 136 | 100 | 77 | 61 | 49 | 41 | 34 | 29 | 25 | 22 | 19 |
| | | DEFLECTION L/240 | 202 | 128 | 85 | 60 | 44 | 33 | 25 | 20 | 16 | 13 | 11 |
| | 20 | STRESS DOWNWARD | 181 | 133 | 102 | 80 | 65 | 54 | 45 | 39 | 33 | 29 | 25 |
| | | DEFLECTION L/240 | 261 | 164 | 110 | 77 | 56 | 42 | 33 | 26 | 21 | 17 | 14 |
| | 18 | STRESS DOWNWARD | 269 | 198 | 152 | 120 | 97 | 80 | 67 | 57 | 49 | 43 | 38 |
| | | DEFLECTION L/240 | 371 | 233 | 156 | 110 | 80 | 60 | 46 | 36 | 29 | 24 | 20 |
| | 16 | STRESS DOWNWARD | 357 | 262 | 201 | 158 | 128 | 106 | 89 | 76 | 65 | 57 | 50 |
| | | DEFLECTION L/240 | 490 | 309 | 207 | 145 | 106 | 80 | 61 | 48 | 39 | 31 | 26 |

| | | | | | | | | | | | | | |
|--------|----|------------------|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
| TRIPLE | 22 | STRESS DOWNWARD | 170 | 125 | 96 | 76 | 61 | 51 | 43 | 36 | 31 | 27 | 24 |
| | | DEFLECTION L/240 | 158 | 100 | 67 | 47 | 34 | 26 | 20 | 16 | 12 | 10 | 8 |
| | 20 | STRESS DOWNWARD | 226 | 166 | 127 | 100 | 81 | 67 | 56 | 48 | 41 | 36 | 32 |
| | | DEFLECTION L/240 | 204 | 129 | 86 | 61 | 44 | 33 | 26 | 20 | 16 | 13 | 11 |
| | 18 | STRESS DOWNWARD | 337 | 247 | 189 | 150 | 121 | 100 | 84 | 72 | 62 | 54 | 47 |
| | | DEFLECTION L/240 | 290 | 183 | 122 | 86 | 63 | 47 | 36 | 29 | 23 | 19 | 15 |
| | 16 | STRESS DOWNWARD | 446 | 327 | 251 | 198 | 160 | 133 | 111 | 95 | 82 | 71 | 63 |
| | | DEFLECTION L/240 | 384 | 242 | 162 | 114 | 83 | 62 | 48 | 38 | 30 | 25 | 20 |

LOAD TABLES AND SECTION PROPERTIES WERE GENERATED BY THE SDI. Standard Cover Width is 36".

FOR LOADS THAT CAUSE L/120 DEFLECTION, MULTIPLY BY 2.0. FOR LOADS THAT CAUSE L/180 DEFLECTION, MULTIPLY BY 1.5. FOR LOADS THAT CAUSE L/360 DEFLECTION, MULTIPLY BY 0.667.

TYPE "2.0NCF" NON-COMPOSITE FORM DECK

SLAB INFORMATION

| Total Slab Depth, inches | W.W.F | Mp | Mn | Theo. Concrete Volume | |
|--------------------------|------------------|------|------|-------------------------------------|----------------------------------|
| | | | | yd ³ /100ft ² | ft ³ /ft ² |
| 4.5 | 6x6- W2.0 x W2.0 | 3.45 | 5.00 | 1.08 | 0.291 |
| 5 | 6x6- W2.0 x W2.0 | 4.17 | 5.70 | 1.23 | 0.333 |
| 5.5 | 6x6- W2.9 x W2.9 | 7.03 | 9.16 | 1.39 | 0.375 |
| 6 | 6x6- W2.9 x W2.9 | 8.07 | 10.2 | 1.54 | 0.417 |
| 6.5 | 6x6- W2.9 x W2.9 | 9.12 | 11.3 | 1.70 | 0.458 |
| 7 | 4x4- W2.9 x W2.9 | 15.2 | 18.3 | 1.85 | 0.500 |

| Total Slab Depth | Deck | NW Concrete N=9 145 PCF | | | LW Concrete N=14 115 PCF | | |
|---|------|----------------------------|--------|--------|-----------------------------|--------|--------|
| | | 1 Span | 2 Span | 3 Span | 1 Span | 2 Span | 3 Span |
| 4.0 (t=2.00) 39 PSF/NW 31 PSF/LW | 22 | 7-9 | 9-1 | 9-2 | 8-5 | 9-10 | 9-11 |
| | 20 | 9-5 | 10-6 | 10-10 | 10-2 | 11-4 | 11-8 |
| | 18 | 10-7 | 12-10 | 13-3 | 11-5 | 13-9 | 14-3 |
| | 16 | 11-6 | 14-9 | 15-3 | 12-5 | 15-10 | 16-5 |
| 4.5 (t=2.50) 45 PSF/NW 35 PSF/LW | 22 | 7-5 | 8-8 | 8-9 | 8-1 | 9-5 | 9-7 |
| | 20 | 8-11 | 10-0 | 10-4 | 9-9 | 10-11 | 11-3 |
| | 18 | 10-1 | 12-3 | 12-8 | 10-11 | 13-3 | 13-9 |
| | 16 | 11-0 | 14-1 | 14-6 | 11-11 | 15-3 | 15-9 |
| 5.0 (t=3.00) 51 PSF/NW 39 PSF/LW | 22 | 7-1 | 8-3 | 8-4 | 7-9 | 9-1 | 9-2 |
| | 20 | 8-9 | 10-5 | 10-9 | 9-6 | 11-6 | 11-11 |
| | 18 | 9-8 | 11-8 | 12-1 | 10-7 | 12-10 | 13-3 |
| | 16 | 10-6 | 13-5 | 13-11 | 11-6 | 14-9 | 15-3 |
| 5.5 (t=3.50) 57 PSF/NW 44 PSF/LW | 22 | 6-10 | 7-11 | 8-0 | 7-6 | 8-9 | 8-10 |
| | 20 | 8-2 | 9-2 | 9-6 | 9-0 | 10-1 | 10-5 |
| | 18 | 9-3 | 11-3 | 11-7 | 10-2 | 12-4 | 12-9 |
| | 16 | 10-2 | 12-11 | 13-4 | 11-1 | 14-2 | 14-8 |
| 6.0 (t=4.00) 63 PSF/NW 48 PSF/LW | 22 | 6-7 | 7-8 | 7-9 | 7-3 | 8-5 | 8-7 |
| | 20 | 7-10 | 8-10 | 9-2 | 8-9 | 9-9 | 10-1 |
| | 18 | 9-0 | 10-10 | 11-2 | 9-10 | 11-11 | 12-4 |
| | 16 | 9-10 | 12-5 | 12-10 | 10-9 | 13-9 | 14-2 |
| 6.5 (t=4.50) 69 PSF/NW 53 PSF/LW | 22 | 6-4 | 7-5 | 7-6 | 7-0 | 8-2 | 8-3 |
| | 20 | 7-7 | 8-7 | 8-10 | 8-5 | 9-5 | 9-9 |
| | 18 | 8-9 | 10-5 | 10-9 | 9-6 | 11-6 | 11-11 |
| | 16 | 9-6 | 12-0 | 12-5 | 10-5 | 13-3 | 13-8 |

REINFORCED CONCRETE SLAB ALLOWABLE LOADS

| Slab Depth | Reinforcement | | Superimposed Uniform Load (PSF) – 3 Span Condition | | | | | | | | | | | | |
|-----------------|------------------|-------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| | | | Clear Span (ft-in.) | | | | | | | | | | | | |
| | W.W.F | As | 5-0 | 5-6 | 6-0 | 6-6 | 7-0 | 7-6 | 8-0 | 8-6 | 9-0 | 9-6 | 10-0 | 10-6 | 11-0 |
| 4.5 (t=2.50) | 6x6- W2.0 x W2.0 | 0.040 | 108 | 89 | 75 | 64 | 55 | 48 | 42 | 37 | 33 | 30 | 27 | 25 | 22 |
| | 6x6- W2.9 x W2.9 | 0.058 | 155 | 128 | 108 | 92 | 79 | 69 | 61 | 54 | 48 | 43 | 39 | 35 | 32 |
| | 4x4- W2.9 x W2.9 | 0.087 | 231 | 191 | 160 | 136 | 118 | 103 | 90 | 80 | 71 | 64 | 58 | 52 | 48 |
| 5.0 (t=3.00) | 6x6- W2.0 x W2.0 | 0.040 | 131 | 108 | 91 | 77 | 67 | 58 | 51 | 45 | 40 | 36 | 33 | 30 | 27 |
| | 6x6- W2.9 x W2.9 | 0.058 | 188 | 155 | 130 | 111 | 96 | 83 | 73 | 65 | 58 | 52 | 47 | 43 | 39 |
| | 4x4- W2.9 x W2.9 | 0.087 | 280 | 231 | 194 | 166 | 143 | 124 | 109 | 97 | 86 | 77 | 70 | 63 | 58 |
| 5.5 (t=3.50) | 6x6- W2.9 x W2.9 | 0.058 | 216 | 178 | 150 | 128 | 110 | 96 | 84 | 75 | 67 | 60 | 54 | 49 | 45 |
| | 4x4- W2.9 x W2.9 | 0.087 | 321 | 265 | 223 | 190 | 164 | 142 | 125 | 111 | 99 | 89 | 80 | 73 | 66 |
| | 4x4- W4.0 x W4.0 | 0.120 | * | 358 | 300 | 256 | 221 | 192 | 169 | 150 | 134 | 120 | 108 | 98 | 89 |
| 6.0 (t=4.00) | 6x6- W2.9 x W2.9 | 0.058 | 240 | 198 | 167 | 142 | 122 | 107 | 94 | 83 | 74 | 67 | 60 | 54 | 50 |
| | 4x4- W2.9 x W2.9 | 0.087 | 357 | 295 | 248 | 211 | 182 | 159 | 140 | 124 | 110 | 99 | 89 | 81 | 74 |
| | 4x4- W4.0 x W4.0 | 0.120 | * | * | 336 | 286 | 247 | 215 | 189 | 167 | 149 | 134 | 121 | 110 | 100 |
| 6.5 (t=4.50) | 6x6- W2.9 x W2.9 | 0.058 | 265 | 219 | 184 | 157 | 135 | 118 | 103 | 92 | 82 | 73 | 66 | 60 | 55 |
| | 4x4- W2.9 x W2.9 | 0.087 | 394 | 326 | 274 | 233 | 201 | 175 | 154 | 136 | 122 | 109 | 99 | 89 | 81 |
| | 4x4- W4.0 x W4.0 | 0.120 | * | * | 371 | 316 | 273 | 237 | 209 | 185 | 165 | 148 | 134 | 121 | 110 |
| 7.0 (t=5.00) | 4x4- W2.9 x W2.9 | 0.087 | * | 356 | 299 | 255 | 220 | 192 | 168 | 149 | 133 | 119 | 108 | 98 | 89 |
| | 4x4- W4.0 x W4.0 | 0.120 | * | * | 346 | 299 | 260 | 229 | 202 | 181 | 162 | 146 | 133 | 121 | |
| | 4x4- W5.0 x W5.0 | 0.150 | * | * | * | 368 | 321 | 282 | 250 | 223 | 200 | 180 | 164 | 149 | |

WEB CRIPPLING AND SHEAR HAVE NOT BEEN ACCOUNTED FOR ON THESE TABLES. REQUIRED BEARING SHOULD BE DETERMINED BASED ON SPECIFIC SPAN CONDITIONS.

* INDICATES LIVE LOADS IN EXCESS OF 400 P.S.F