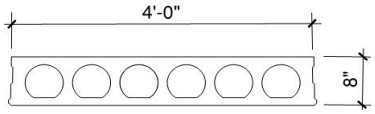
# EX-120 Load Table
# 8" Thick
# 1.0" Strand Cover




## No Structural Topping

Dead Load Weight of Slab = 62.8 psf

| IBC Fire Ratings | Unrestrained 1 hours | | | | |
|---|---|---|---|---|---|
| | Restrained 1 1/2 hours* | | | | |

**Section Properties**

A = 218 in² Yt = 3.92 in b = 11.19 in

I = 1697 in⁴ Yb = 4.08 in wt = 62.8 psf

| $\phi M_n$ ft-k/ft | 19.71 | 26.19 | 36.85 | | |
|---|---|---|---|---|---|
| Series | 1.0CA-8607 | 1.0CA-8707 | 1.0CA-8807 | | |
| Span in Feet | Allowable Superimposed Load In lbs/ft² | | | | |
| 12 | 542 | 547 | | | |
| 13 | 494 | 499 | | | |
| 14 | 436 | 458 | | | |
| 15 | 387 | 423 | 412 | | |
| 16 | 338 | 383 | 382 | | |
| 17 | 294 | 345 | 356 | | |
| 18 | 257 | 312 | 333 | | |
| 19 | 226 | 282 | 312 | | |
| 20 | 199 | 258 | 294 | | |
| 21 | 176 | 237 | 272 | | |
| 22 | 156 | 217 | 249 | | |
| 23 | 139 | 200 | 230 | | |
| 24 | 124 | 180 | 212 | | |
| 25 | 110 | 162 | 201 | | |
| 26 | 99 | 146 | 189 | | |
| 27 | 88 | 132 | 175 | | |
| 28 | 78 | 120 | 162 | | |
| 29 | 70 | 108 | 150 | | |
| 30 | | 98 | 140 | | |
| 31 | | 89 | 133 | | |
| 32 | | 81 | 124 | | |
| 33 | | 73 | 117 | | |
| 34 | | | 111 | | |
| 35 | | | 103 | | |
| 36 | | | 95 | | |
| 37 | | | 87 | | |
| 38 | | | 80 | | |
| 38 | | | 80 | | |

## 2" Bonded Structural Topping

Dead Load Weight of Slab With Topping = 87.8 psf

| IBC Fire Ratings | Unrestrained 1 hours | | | | |
|---|---|---|---|---|---|
| | Restrained 3 hours* | | | | |

**Section Properties**

A = 278.5 in² Yt = 4.88 in b = 11.19 in

I = 2826 in⁴ Yb = 5.12 in wt = 87.8 psf

| $\phi M_n$ ft-k/ft | 24.85 | 32.65 | 45.05 | | |
|---|---|---|---|---|---|
| Series | 1.0CA-8607T | 1.0CA-8707T | 1.0CA-8807T | | |
| Span in Feet | Allowable Superimposed Load In lbs/ft² | | | | |
| 12 | 595 | 593 | | | |
| 13 | 544 | 542 | | | |
| 14 | 500 | 498 | | | |
| 15 | 463 | 461 | 459 | | |
| 16 | 419 | 428 | 426 | | |
| 17 | 364 | 399 | 397 | | |
| 18 | 317 | 373 | 371 | | |
| 19 | 278 | 350 | 348 | | |
| 20 | 245 | 324 | 328 | | |
| 21 | 216 | 297 | 309 | | |
| 22 | 191 | 271 | 292 | | |
| 23 | 169 | 243 | 276 | | |
| 24 | 150 | 217 | 262 | | |
| 25 | | 195 | 249 | | |
| 26 | | 176 | 234 | | |
| 27 | | 158 | 215 | | |
| 28 | | 142 | 198 | | |
| 29 | | | 184 | | |
| 30 | | | 173 | | |
| 31 | | | 160 | | |
| 32 | | | 147 | | |

Concrete Strength: 9,000 psi at 28 days

Prestress Strands: 3/8", 7/16", 1/2" special, 270 ksi Lo-Lax

Strands Stressed to 61%

*Limited by heat transmission requirements of ASTM E-119

Camber 1"-1 1/2"

Camber > 1 1/2"

Issued: 3/11/2019

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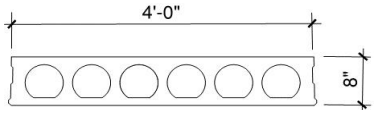
Load tables are presented as guidelines only. Design requirements must be reviewed by the engineer of record for each specific project.

# EX-120 Load Table
# 8" Thick
# 1.63" Strand Cover




## No Structural Topping

Dead Load Weight of Slab = 62.8 psf

| IBC Fire Ratings | Unrestrained 1 1/2 hours* | | | | |
|---|---|---|---|---|---|
| | Restrained 1 1/2 hours* | | | | |
| **Section Properties** | | | | | |
| A = 218 in² | Yt = 3.92 in | | b = 11.19 in | | |
| I = 1697 in⁴ | Yb = 4.08 in | | wt = 62.8 psf | | |
| **$\phi M_n$ ft-k/ft** | **17.82** | **23.62** | **33.11** | | |
| **Series** | **1.63CA-8607** | **1.63CA-8707** | **1.63CA-8807** | | |
| **Span in Feet** | **Allowable Superimposed Load In lbs/ft²** | | | | |
| 12 | 508 | 515 | | | |
| 13 | 460 | 470 | | | |
| 14 | 403 | 431 | | | |
| 15 | 349 | 397 | 390 | | |
| 16 | 301 | 353 | 362 | | |
| 17 | 261 | 317 | 337 | | |
| 18 | 228 | 287 | 315 | | |
| 19 | 199 | 261 | 295 | | |
| 20 | 175 | 237 | 273 | | |
| 21 | 155 | 217 | 250 | | |
| 22 | 137 | 197 | 231 | | |
| 23 | 121 | 176 | 211 | | |
| 24 | 107 | 158 | 196 | | |
| 25 | 95 | 142 | 183 | | |
| 26 | 84 | 127 | 172 | | |
| 27 | | 115 | 159 | | |
| 28 | | 103 | 147 | | |
| 29 | | 93 | 136 | | |
| 30 | | | 129 | | |
| 31 | | | 120 | | |
| 32 | | | 113 | | |
| 33 | | | 105 | | |
| 34 | | | 96 | | |

## 2" Bonded Structural Topping

Dead Load Weight of Slab With Topping = 87.8 psf

| IBC Fire Ratings | Unrestrained 2 hours | | | | |
|---|---|---|---|---|---|
| | Restrained 3 hours* | | | | |
| **Section Properties** | | | | | |
| A = 278.5 in² | Yt = 4.88 in | | b = 11.19 in | | |
| I = 2826 in⁴ | Yb = 5.12 in | | wt = 87.8 psf | | |
| **$\phi M_n$ ft-k/ft** | **22.95** | **30.09** | **41.31** | | |
| **Series** | **1.63CA-8607T** | **1.63CA-8707T** | **1.63CA-8807T** | | |
| **Span in Feet** | **Allowable Superimposed Load In lbs/ft²** | | | | |
| 12 | 548 | 545 | | | |
| 13 | 500 | 498 | | | |
| 14 | 460 | 458 | | | |
| 15 | 425 | 423 | 421 | | |
| 16 | 382 | 392 | 391 | | |
| 17 | 331 | 365 | 364 | | |
| 18 | 288 | 342 | 340 | | |
| 19 | 252 | 320 | 319 | | |
| 20 | 221 | 296 | 299 | | |
| 21 | 194 | 268 | 282 | | |
| 22 | 171 | 245 | 266 | | |
| 23 | | 218 | 252 | | |
| 24 | | 195 | 238 | | |
| 25 | | | 224 | | |
| 26 | | | 209 | | |
| 27 | | | 192 | | |
| 28 | | | 176 | | |
| 29 | | | 166 | | |

Concrete Strength: 9,000 psi at 28 days

Prestress Strands: 3/8", 7/16", 1/2" special, 270 ksi Lo-Lax

Strands Stressed to 61%

*Limited by heat transmission requirements of ASTM E-119

Camber 1"-1 1/2"

Camber > 1 1/2"

Issued: 3/11/2019

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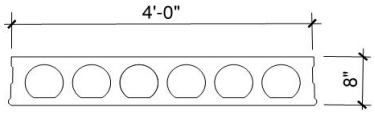
# EX-120 Load Table
# 8" Thick
# 2.13" Strand Cover




## No Structural Topping

Dead Load Weight of Slab = 62.8 psf

| IBC Fire Ratings | Unrestrained 1 1/2 hours* | | | | |
|---|---|---|---|---|---|
| | Restrained 1 1/2 hours* | | | | |
| **Section Properties** | | | | | |
| A = 218 in² | Yt = 3.92 in | | b = 11.19 in | | |
| I = 1697 in⁴ | Yb = 4.08 in | | wt = 62.8 psf | | |
| **$\phi M_n$ ft-k/ft** | **16.31** | **21.58** | **30.13** | | |
| **Series** | **2.13CA-8607** | **2.13CA-8707** | **2.13CA-8807** | | |
| **Span in Feet** | **Allowable Superimposed Load In lbs/ft²** | | | | |
| 12 | 505 | | | | |
| 13 | 435 | 471 | | | |
| 14 | 369 | 427 | 427 | | |
| 15 | 315 | 377 | 391 | | |
| 16 | 271 | 336 | 363 | | |
| 17 | 235 | 302 | 338 | | |
| 18 | 204 | 274 | 315 | | |
| 19 | 179 | 250 | 286 | | |
| 20 | 157 | 222 | 259 | | |
| 21 | 138 | 197 | 237 | | |
| 22 | 121 | 176 | 219 | | |
| 23 | | 157 | 200 | | |
| 24 | | 140 | 186 | | |
| 25 | | 125 | 172 | | |
| 26 | | 112 | 160 | | |
| 27 | | | 149 | | |
| 28 | | | 139 | | |
| 29 | | | 130 | | |
| 30 | | | 120 | | |

## 2" Bonded Structural Topping

Dead Load Weight of Slab With Topping = 87.8 psf

| IBC Fire Ratings | Unrestrained 3 hours | | | | |
|---|---|---|---|---|---|
| | Restrained 3 hours* | | | | |
| **Section Properties** | | | | | |
| A = 278.5 in² | Yt = 4.88 in | | b = 11.19 in | | |
| I = 2826 in⁴ | Yb = 5.12 in | | wt = 87.8 psf | | |
| **$\phi M_n$ ft-k/ft** | **21.44** | **28.05** | **38.34** | | |
| **Series** | **2.13CA-8607T** | **2.13CA-8707T** | **2.13CA-8807T** | | |
| **Span in Feet** | **Allowable Superimposed Load In lbs/ft²** | | | | |
| 12 | 534 | | | | |
| 13 | 488 | 488 | | | |
| 14 | 448 | 448 | | | |
| 15 | 410 | 414 | | | |
| 16 | 353 | 384 | 384 | | |
| 17 | 305 | 357 | 357 | | |
| 18 | 265 | 334 | 334 | | |
| 19 | 231 | 308 | 313 | | |
| 20 | 202 | 277 | 294 | | |
| 21 | | 252 | 277 | | |
| 22 | | 224 | 261 | | |
| 23 | | | 243 | | |
| 24 | | | 225 | | |
| 25 | | | 208 | | |
| 26 | | | 191 | | |

Concrete Strength: 9,000 psi at 28 days

Prestress Strands: 3/8", 7/16", 1/2" special, 270 ksi Lo-Lax

Strands Stressed to 61%

*Limited by heat transmission requirements of ASTM E-119

Camber 1"-1 1/2"

Camber > 1 1/2"

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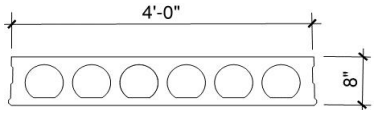
# EX-120 Load Table
# 8" Thick
# 2.25" Strand Cover




## No Structural Topping

Dead Load Weight of Slab = 62.8 psf

| IBC Fire Ratings | Unrestrained 1 1/2 hours* | | | | |
|---|---|---|---|---|---|
| | Restrained 1 1/2 hours* | | | | |
| **Section Properties** | | | | | |
| A = 218 in² | Yt = 3.92 in | | b = 11.19 in | | |
| I = 1697 in⁴ | Yb = 4.08 in | | wt = 62.8 psf | | |
| **$\phi M_n$ ft-k/ft** | **15.95** | **21.09** | **29.42** | | |
| **Series** | **2.25CA-8607** | **2.25CA-8707** | **2.25CA-8807** | | |
| **Span in Feet** | **Allowable Superimposed Load In lbs/ft²** | | | | |
| 12 | 500 | 517 | | | |
| 13 | 425 | 471 | 462 | | |
| 14 | 360 | 424 | 424 | | |
| 15 | 308 | 375 | 391 | | |
| 16 | 265 | 335 | 363 | | |
| 17 | 229 | 300 | 338 | | |
| 18 | 199 | 269 | 310 | | |
| 19 | 174 | 245 | 281 | | |
| 20 | 152 | 216 | 257 | | |
| 21 | 134 | 192 | 233 | | |
| 22 | | 171 | 215 | | |
| 23 | | 152 | 199 | | |
| 24 | | 136 | 182 | | |
| 25 | | | 170 | | |
| 26 | | | 157 | | |
| 27 | | | 148 | | |
| 28 | | | 136 | | |
| 29 | | | 128 | | |

## 2" Bonded Structural Topping

Dead Load Weight of Slab With Topping = 87.8 psf

| IBC Fire Ratings | Unrestrained 3 hours | | | | |
|---|---|---|---|---|---|
| | Restrained 3 hours* | | | | |
| **Section Properties** | | | | | |
| A = 278.5 in² | Yt = 4.88 in | | b = 11.19 in | | |
| I = 2826 in⁴ | Yb = 5.12 in | | wt = 87.8 psf | | |
| **$\phi M_n$ ft-k/ft** | **21.08** | **27.56** | **38.34** | | |
| **Series** | **2.25CA-8607T** | **2.25CA-8707T** | **2.25CA-8807T** | | |
| **Span in Feet** | **Allowable Superimposed Load In lbs/ft²** | | | | |
| 12 | 534 | 534 | | | |
| 13 | 488 | 488 | 488 | | |
| 14 | 448 | 448 | 448 | | |
| 15 | 402 | 414 | 414 | | |
| 16 | 346 | 384 | 384 | | |
| 17 | 299 | 357 | 357 | | |
| 18 | 259 | 334 | 334 | | |
| 19 | | 303 | 313 | | |
| 20 | | 277 | 294 | | |
| 21 | | 246 | 277 | | |
| 22 | | | 261 | | |
| 23 | | | 243 | | |
| 24 | | | 221 | | |

Concrete Strength: 9,000 psi at 28 days

Prestress Strands: 3/8", 7/16", 1/2" special, 270 ksi Lo-Lax

Strands Stressed to 61%

*Limited by heat transmission requirements of ASTM E-119

Camber 1"-1 1/2"

Camber > 1 1/2"

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