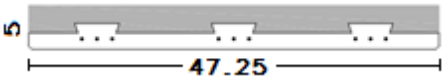
# Standard Load Table
# 5" inch thick Rib Slab
# 1.00" Strand Cover




## No Structural Topping (for shoring)
Dead Load Weight of Slab = 26 psf

### Section Properties
A = 103.7 in² Yt = 1.79 in b = 47.25 in
I = 55.8 in⁴ Yb = 1.15in wt = 26 psf

| $\phi M_n$ ft-k/ft | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 |
|---|---|---|---|---|---|---|
| Series | 1.0RA-03604 | 1.0RA-03605 | 1.0RA-03606 | 1.0RA-03607 | 1.0RA-03608 | 1.0RA-03609 |
| | Shoring Spans | | | | | |
| | 5' | 5' | 5' | 5' | 5' | 5' |

Shoring spans above based on:
1) 3" wet Cast In Place Concrete
2) 50 pounds per square foot construction live load
3) use 100 pounds per square foot total live load combined(#1 & #2)

Concrete Strength: 6,000 psi at 28 days
Prestress Strands: 3/8" 270 ksi Lo-Lax @ 65%

## 3" Bonded Structural Topping
Dead Load Weight of Slab With Topping = 63 psf

| IBC Fire Ratings | Unrestrained 1 hour | | | | | |
|---|---|---|---|---|---|---|

### Section Properties
A = 236 in² Yt = 2.62 in b = 47.25 in
I = 442 in⁴ Yb = 2.38 in wt = 63 psf

| $\phi M_n$ ft-k/ft | 5.88 | 7.13 | 8.29 | 9.39 | 10.41 | 11.34 |
|---|---|---|---|---|---|---|
| Series | 1.0RA-03604T | 1.0RA-03605T | 1.0RA-03606T | 1.0RA-03607T | 1.0RA-03608T | 1.0RA-03609T |
| Span in Feet | Allowable Superimposed Load In lbs/ft² | | | | | |
| 8 | 328 | 406 | 479 | 482 | | |
| 9 | 251 | 312 | 370 | 423 | 474 | |
| 10 | 195 | 245 | 292 | 335 | 376 | 414 |
| 11 | 155 | 195 | 234 | 270 | 303 | 335 |
| 12 | 123 | 158 | 191 | 220 | 249 | 275 |
| 13 | 99 | 129 | 156 | 182 | 206 | 228 |
| 14 | 80 | 105 | 129 | 151 | 172 | 191 |
| 15 | 64 | 87 | 107 | 127 | 145 | 162 |
| 16 | 51 | 71 | 90 | 107 | 128 | 143 |
| 17 | 41 | 59 | 78 | 92 | 106 | 119 |
| 18 | 32 | 48 | 63 | 75 | 87 | 99 |
| 19 | | 39 | 50 | 61 | 71 | 82 |
| 20 | | | 38 | 48 | 58 | 68 |
| 21 | | | | | 46 | 53 |
| 22 | | | | | 36 | 37 |

Topping Concrete Strength: 4,000 psi at 28 days
**Total Thickness: 5 in.**

Camber 1"-1 1/2"
Camber > 1 1/2"

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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.