MID-STATES
CONCRETE INDUSTRIES

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# 10" X 48" HOLLOWCORE

**2" STRUCTURAL TOPPING**

**(3 HOUR FIRE RATING)**

**COMPOSITE DESIGN**

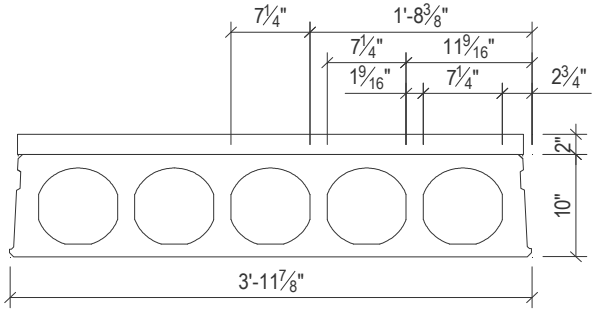
**SAFE LOAD TABLE**

| Standard Designation | #/Size of 7-Wire strand | Strand Area Sq.In. | Mu in Ft.-Kips per unit | SIMPLE SPAN IN FEET-CENTER TO CENTER OF END BEARINGS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 1.75-108 | 10-1/2 | 1.530 | 254.02 | | | | | | | | | | | | | 326 | 308 | 292 | 278 | 264 | 251 | 236 | 214 | 194 | 176 | 159 | 144 | 131 | 118 | 107 | 96 | 86 | 77 | 69 |
| 1.75-28410 | 2-1/2,4-.6 | 1.174 | 204.16 | | | | | | | | | 415 | 389 | 366 | 345 | 324 | 288 | 257 | 230 | 206 | 184 | 165 | 147 | 132 | 117 | 104 | 93 | 82 | 72 | 63 | 55 | 47 | 40 | 34 |
| 1.75-68 | 6-1/2 | 0.918 | 165.05 | | | | | 555 | 513 | 476 | 444 | 400 | 350 | 307 | 270 | 237 | 209 | 185 | 163 | 144 | 127 | 111 | 98 | 85 | 74 | 64 | 54 | 46 | 38 | 31 | 24 | | | |
| 1.75-67 | 6-7/16 | 0.690 | 127.79 | 807 | 727 | 660 | 604 | 527 | 447 | 382 | 328 | 282 | 244 | 211 | 183 | 159 | 137 | 119 | 102 | 87 | 74 | 63 | 52 | 43 | 34 | 26 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**UNIFORMLY DISTRIBUTED SUPERIMPOSED LOAD IN LBS. PER SQ. FT.**

(Includes the live load plus dead load that is in addition to the weight of the grouted slabs in place and 2" topping.)

**FOR LOADS & SPANS NOT SHOWN CONTACT MID-STATES CONCRETE INDUSTRIES**




1- Dead Load, 97 psf grouted weight of structural unit.

2- Tabulated loads are based on ACI318-02 where $M_u$=1.4 $M_d$+1.7$M_L$ and with all loads superimposed on the structural section considered as live load.

3- Camber is a result of the design rather than a design requirement. Heavy superimposed loads & / or long spans may cause excessive camber. Contact Mid-States Concrete Industries for more specific camber information.

4- Loads to the left of the solid stepped line are governed by shear.

HOLLOWCORE: F'c = 9000 psi, WEIGHT = 72 psf
GROUT: F'c = 5000 psi
Topping: F'c = 4000 psi, WEIGHT = 25 psf

PCI Certified Plant