



HOLLOWCORE SLABS LOAD TABLES

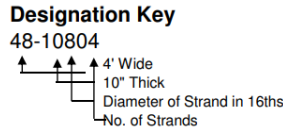


About this Publication

To the best of our knowledge and understanding, the information given in this reference book is complete and accurate. This document is intended to guide the design professional while making his or her own preliminary evaluations of approximate depth, span, spacing and connections. The information given represents typical installations and applications for Structural Prestressed Industries Inc. (SPI) products. For applications requiring special loadings and or special serviceability requirements please contact SPI.

These guidelines are specific to Structural Prestressed Industries (SPI) precast/prestressed members and should never be used to evaluate members from other precast producers. These guidelines are not expressed nor implied warranties for other applications.

SPI encourages the Design and Construction Professionals to contact our Engineering Department for value engineering solutions and design build projects. Our team of experienced engineers, designers and project managers are available to assist you with all your needs.



FOR SPANS AND LOADS NOT SHOWN IN TABLES CONTACT SPI ENGINEERING. CHECK WITH SPI ENGINEERING DEPARTMENT FOR CASES OF HIGH WIND UPLIFT.

CAMBER IS INHERENT TO PRESTRESSED MEMBERS. HEAVY LOADING AND LONG SPANS MAY RESULT IN HIGHER CAMBERS. CONTACT SPI WITH ANY CAMBER CONCERNS.

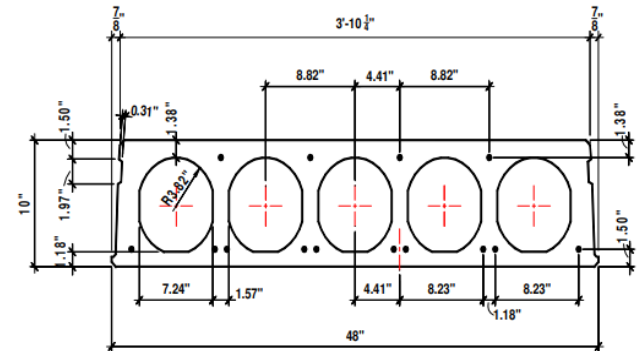
11405 NW 112th Court Medley, Florida 33178
 TEL (305) 556-6699 FAX (305) 556-9696
www.spimiami.com

10" x 4'-0" SPI ULTRA DECK HOLLOWCORE SLAB WITH NO TOPPING

Standard Desing	No. & Dia of 7-Wire 270 Lo-Lax P/S Strand	Strand Area in2	ϕM_N in ft-kips per Unit	SIMPLE SPAN (ft)																								ϕV_c in Kips per Unit		
				23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46		47	48
48-10806	6 1/2" \emptyset	0.919	114.1	160	145	130	115	105	95	85	75	65	50	45	40													18.1		
48-10808	8 1/2" \emptyset	1.225	146.3	200	190	180	170	160	150	140	130	120	115	110	105	95	90	85	75	65	55	50						18.1		
48-108010	10 1/2" \emptyset	1.531	176.8				220	215	210	200	190	180	170	160	145	130	120	110	100	95	90	85	80	75	70	65	60	65	60	18.1

The above allowable superimposed service loads(in psf) are based on the following assumptions:

1. Prestressed Concrete $f'c = 6000$ ps.
2. Grout $f'c = 4000$ psi
3. Loads are based on slabs being 100% grouted.
4. Allowable superimposed service loads include dead load of 20 psf.
5. Loads are based on ACI 318-02.
6. Camber is inherent to prestressed members. Heavy loading and long spans may result in higher cambers. Contact SPI with any camber concerns.
7. Values to the left of the dark stepped line are controlled by shear. The use of a plant cast solid core may be required.
8. Values in shaded boxes require serviceability analysis by SPI Engineering for specific project requirements.



AREA OF CROSS-SECTION: 248.5 SQ. INCH.
 THEORETICAL WEIGHT OF SLAB: 64.6 LB/SQ.FT (+ STRANDS)
 DENSITY: 150 LB/CU.FT.
 THERMAL RESISTANCE R = 3.25 SOUND TRANSMISSION CLASS STC = 50
 IMPACT INSULATION IIC = 32



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With respect to the load tables provided on this website, the information and data presented are intended to assist designers in determining applicable prestressed members. They should not be construed as express or implied warranties of suitability. The data does not account for unusual loads or stresses. Designers are encouraged to consult S.P.I.'s Engineering Department for project-specific information.