

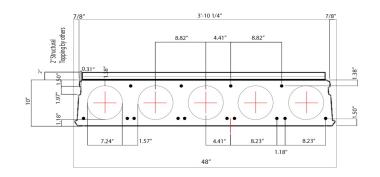
10" x 4'-0" Hollowcore Slab 2" Structural Topping

ASTM 416 7 Wire LoLax 270 KSI	Strand Area in2	φM <sub>N</sub> in ft-kips per Unit		Simple Span (ft)															φVc in								
			23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	kips per Unit
6 1/2" Diameter	0.919	142.0	200	190	180	170	160	145	130	115	100	85	70	60	55	50											24.0
8 1/2" Diameter	1.225	182.0			245	235	225	215	205	195	180	160	140	120	110	100	90	80	70	60	50						24.0
10 1/2" Diameter	1.531	220.0				260	240	230	210	190	170	150	140	130	120	110	105	95	85	80	75	70	65	60	55	50	24.0

CPC load tables are based on the following assumptions:

1- Loads are in PSF

- 2- Precast Concrete fc =6000 psi Field Topping fc =4000psi
- 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 318-14.
- 6- Camber is inherent to flexural prestressed members. Slabs of unequal spans or a change in span direction will result in differential camber. Call CPC Engineering Department for guidance with the design layout.
- 7- Values in shaded boxes require deflection analysis. Contact CPC Engineering Department.
- 8- Values to the left of the dark stepped lines are shear critical. Contact CPC Engineering Department.
- 9- Slabs designed with composite structural topping must be properly cleaned and completely saturated before topping placement to insure adequate bond.



Area Composite	325 in <sup>2</sup>							
Thermal R Value	1.9							
STC	56							
IIC	31							