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Colonial Precast Concrete, LLC

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Producer Member

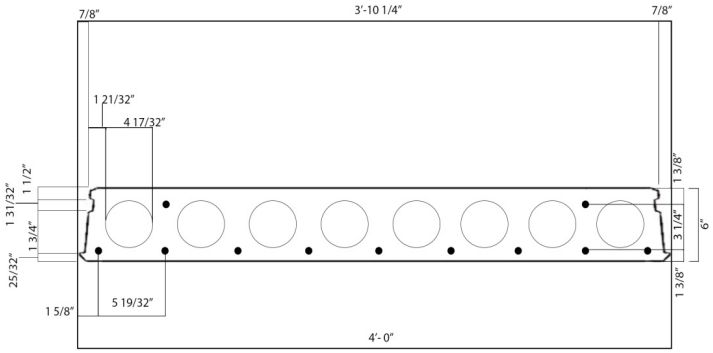
CERTIFIED PLANT

6" x 4'-0" Hollowcore Slab No Topping

ASTM 416 7 Wire LoLax 270 KSI	Strand Area in2	ϕM_N in ft-kips per Unit	Simple Span (ft)																							ϕVc in kips per Unit
			10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	
4 1/2" Diameter	0.460	39.60	142	124	108	221	194	170	145	124	107	92	79														9.73
5 1/2" Diameter	0.575	48.00	146	294	265	240	219	198	174	14	137	119	104	91	80												9.73
6 1/2" Diameter	0.690	55.96	337	301	271	246	225	207	191	169	151	135	121	109	99	87											9.73
7 1/2" Diameter	0.805	63.16	345	308	278	252	230	212	196	181	163	146	132	119	107	97	89										9.73

CPC load tables are based on the following assumptions:

1- Loads are in PSF
2- Precast Concrete f'c =6000 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 318-14.
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.



Area	173 in^2
Thermal R Value	1.3
STC	45
IIC	22