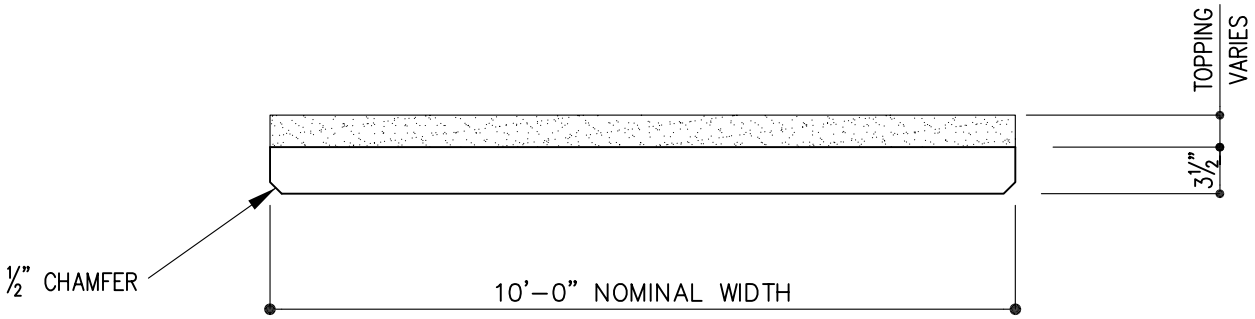
PRESTRESSED PLANK DATA



SECTION PROPERTIES

		AREA in.^{2}	WEIGHT P.L.F.	WEIGHT P.S.F.	MOMENT OF INERTIA in.^{4}	SECTION MODULUS b in.^{3}	SECTION MODULUS t in.^{3}	SECTION MODULUS t (topping) in.^{3}	Y_b in.	Y_t in.
Base unit		420	438	43.8	429	245	245	——	1.75	1.75
Composite with topping	2½"	632	750	75.0	1808	656	557	788	2.76	3.24
	3"	675	813	81.0	2294	771	651	921	2.98	3.52
	3½"	717	875	88.0	2863	895	753	1065	3.20	3.80
	4"	759	938	94.0	3521	1028	864	1222	3.43	4.07

LOAD-SPAN TABLE

SAFE SUPERIMPOSED SERVICE LOAD (PSF)

Composite topping thickness	SPAN, (ft.)													
	17	18	19	20	21	22	23	24	25	26	27	28	29	30
2½"	125	105	90	75	65	54	44	35	26	20				
3"	165	140	119	101	86	73	61	50	40	33	26	20		
3½"	195	175	156	137	120	103	87	75	64	54	45	37	30	
4"			193	173	150	130	114	99	86	75	64	54	44	35

NOTES:

1. Planks will typically require shoring during construction.
2. Loads shown are for a simply supported span. Continuous spans can also be considered.
3. Topping concrete strength is assumed to be 3000 P.S.I.
4. Other thickness and widths are available for specific applications. Consult R.M.P. for the most economical solution.
5. Precast f'_c = 6000 psi.