

**Maximum Uniformly Distributed Service Load (psf)
Clear Span (Feet)**

Strand Pattern	Strand Area(in ²)	Clear Span (Feet)																									
		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
10S108-1.75	1.530	426	394	366	342	320	300	283	267	252	239	227	215	205	196	187	174	161	150	140	134	129	123	119	114	110	106
10S6.6-1.79	1.302	432	400	372	347	325	305	287	271	256	243	230	219	208	199	185	172	160	149	138	133	127	122	118	112	104	96
10S88-1.75	1.224	426	394	366	342	320	300	283	267	252	239	227	215	205	196	187	174	161	150	140	134	129	122	113	104	96	89
10S68-1.75	0.918	426	394	366	342	320	300	283	267	252	239	227	207	188	171	156	142	130	118	108	99	90	82	75	-	-	-

**Estimated Camber at Time of Erection (inches)
Clear Span (Feet)**

Strand Pattern	Strand Area(in ²)	Clear Span (Feet)																									
		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
10S108-1.75	1.53	0.42	0.47	0.52	0.57	0.62	0.68	0.73	0.79	0.84	0.89	0.94	0.99	1.03	1.08	1.11	1.15	1.17	1.20	1.21	1.22	1.22	1.21	1.20	1.17	1.14	1.09
10S6.6-1.79	1.302	0.34	0.38	0.42	0.46	0.51	0.55	0.59	0.63	0.67	0.70	0.74	0.77	0.79	0.82	0.84	0.85	0.86	0.86	0.85	0.84	0.82	0.79	0.75	0.70	0.63	0.56
10S88-1.75	1.224	0.32	0.36	0.40	0.44	0.48	0.52	0.55	0.59	0.62	0.66	0.69	0.71	0.74	0.76	0.77	0.78	0.78	0.78	0.77	0.75	0.72	0.69	0.64	0.58	0.52	0.44
10S68-1.75	0.918	0.23	0.26	0.28	0.31	0.33	0.35	0.37	0.39	0.41	0.42	0.43	0.44	0.44	0.44	0.43	0.41	0.39	0.36	0.32	0.28	0.22	0.16	0.08	-	-	-

PROPERTIES

- A_c = 244 SQ. IN.
- I_g = 3080 IN.⁴
- Y_b = 5.1 IN.
- b_w = 10.63 IN.
- w_t = 66 psf
- f'_{ci} = 4000psi (10S48-1.75 & 10S68-1.75)
- f'_{ci} = 5000psi
- f'_c = 7000psi
- f_{pu} = 270 ksi LOW LAX

NOTES:

1. TABULATED SAFE UNIFORM DISTRIBUTED LOADS IN THIS TABLE ARE BASED ON ACI 318-11/318R-02.
2. ALL CALCULATED LOADS ARE CONSIDERED AS SUPERIMPOSED LIVE LOAD BASED ON 1.2DL + 1.6LL.
3. TOPPING WEIGHT IS NOT INCLUDED IN TABULATED VALUES. SIZE AND LOCATION OF OPENINGS REDUCE TABLE CAPACITY.
4. ALL PRESTRESSING STRAND IS STRESSED TO 60-70% OF FPU TYPICAL.
5. TABULATED LOADS IN THE SHADED REGION HAVE LIVE LOAD DEFLECTIONS GREATER THAN L/360.
6. PLANK IS 1.5 HOUR FIRE RATED PER PCI MNL-124. FOR HIGHER RATINGS PLEASE CONTACT KP.
7. FOR LONGER SPANS OR CONDITIONS NOT COVERED BY THIS TABLE PLEASE CONTACT KP.
8. LOADS TO THE LEFT OF THE HEAVY LINE ARE GOVERNED BY SHEAR CAPACITY.

