

**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	-	-	-		

SECTION PROPERTIES

$A_c = 244 \text{ IN.}^2$
 $I_g = 3080 \text{ IN.}^4$
 $Y_b = 5.1 \text{ IN.}$
 $b_w = 10.63 \text{ IN.}$
 $v/s = \alpha/p = 2.12$
 $w_t = 66 \text{ PSF}$
 $w_{\text{COREFILL}} = 47 \text{ PLF}$

CONCRETE

PLANK
 $f'_{ci} = 4000\text{psi}$ (10S48-1.75 & 10S68-1.75)
 $= 5000\text{psi}$ (TYP.)
 $f'_c = 7000\text{psi}$
COREFILL
 $f'_c = 5000\text{psi}$

STRAND

$f_{pu} = 270 \text{ ksi}$ (LOW LAX)
JACKING FORCE:
 TOP = $0.60 f_{pu}$
 BOTTOM = $0.70 f_{pu}$

NOTES:

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

