

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

Strand Pattern	Strand Area(in <sup>2</sup> )	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	41	42	43	44	45	46	47	48	49	50
12S108-1.75	1.530	552	511	475	444	416	391	368	348	329	312	297	282	269	257	245	228	212	198	184	177	170	164	158	152	147	141	137	132	127	122	114	106	99	93	86	81
12S6.6-1.79	1.302	561	519	483	451	423	397	374	354	335	318	302	287	274	262	243	226	211	196	183	176	169	163	157	150	139	129	120	112	104	96	89	83	77	-	-	-
12S88-1.75	1.224	552	511	475	444	416	391	368	348	329	312	297	282	269	257	245	228	212	198	184	177	170	162	150	140	129	120	111	103	96	89	82	76	-	-	-	-
12S68-1.75	0.918	552	511	475	444	416	391	368	348	329	312	294	268	244	222	203	186	170	156	143	131	121	111	102	93	85	78	-	-	-	-	-	-	-	-	-	

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

Strand Pattern	Strand Area(in <sup>2</sup> )	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	41	42	43	44	45	46	47	48	49	50
12S108-1.75	1.53	0.32	0.36	0.40	0.45	0.49	0.53	0.58	0.62	0.67	0.71	0.75	0.79	0.84	0.87	0.91	0.94	0.97	1.00	1.02	1.04	1.05	1.06	1.07	1.06	1.05	1.03	1.01	0.97	0.93	0.88	0.81	0.74	0.65	0.56	0.45	0.32
12S6.6-1.79	1.302	0.27	0.30	0.33	0.37	0.40	0.43	0.47	0.50	0.54	0.57	0.60	0.63	0.65	0.68	0.70	0.72	0.73	0.75	0.75	0.75	0.75	0.74	0.73	0.70	0.67	0.64	0.59	0.53	0.47	0.40	0.31	0.21	0.11	-	-	-
12S88-1.75	1.224	0.25	0.28	0.31	0.35	0.38	0.41	0.44	0.47	0.50	0.53	0.56	0.58	0.61	0.63	0.65	0.66	0.67	0.68	0.68	0.68	0.67	0.66	0.64	0.61	0.58	0.53	0.48	0.42	0.35	0.27	0.18	0.08	-	-	-	-
12S68-1.75	0.918	0.18	0.20	0.22	0.24	0.26	0.28	0.30	0.32	0.34	0.35	0.36	0.37	0.38	0.38	0.38	0.38	0.37	0.36	0.34	0.32	0.29	0.25	0.21	0.16	0.10	0.03	-	-	-	-	-	-	-	-	-	

SECTION PROPERTIES

$A_c = 281.2 \text{ IN.}^2$   
 $I_g = 5196 \text{ IN.}^4$   
 $Y_b = 6.09 \text{ IN.}$   
 $b_w = 10.875 \text{ IN.}$   
 $v/s = a/p = 2.00$   
 $w_t = 76 \text{ PSF}$   
 $w_{\text{COREFILL}} = 59 \text{ PLF}$

CONCRETE

**PLANK**  
 $f'_{ci} = 4000 \text{ psi (12S48-1.75 \& 12S68-1.75)}$   
 $= 5000 \text{ psi (TYP.)}$   
 $f'_c = 7000 \text{ psi}$   
**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.

