



Section Properties

	Untopped	Topped (2")
A	= 259 in ²	
I	= 3197 in ⁴	5200 in ⁴
Y _b	= 5.15 in	6.45 in
Y _t	= 4.85 in	5.55 in
S _b	= 621 in ³	806 in ³
S _t	= 659 in ³	937 in ³
B _w	= 11.80 in	11.80 in
wt	= 67 psf	92 psf

Key

- 239 - Safe superimposed live load, psf
- 0.3 - Estimated Camber at Erection, in
- 0.4 - Estimated Long-Time Camber, in

- f_c = 5000 psi
- f_{ci} = 3500 psi
- f_{ct} = 3000 psi
- f_{pu} = 270 ksi

10" HC (UNTOPPED)

SPAN (Ft)

Strand Pattern	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
4-1/2	239	212	188	168	150	134	120	107	96	86	76	68	61	54	48	42						
	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0	-0.1						
	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.1	0	-0.1	-0.2	-0.3	-0.5						
5-1/2	280	263	245	219	197	177	160	144	130	118	107	96	87	79	71	64	58	52	46	41		
	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.3	0.3	0.2	0.1	0		
	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.3	0.2	0.1	0	-0.1	-0.3	-0.5	-0.7	
6-1/2	289	272	255	242	231	217	199	180	164	149	136	124	113	103	94	86	78	71	64	58	53	
	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.4	0.3	
	0.7	0.7	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.5	0.4	0.2	0.1	-0.1	-0.3	
8-1/2		287	270	257	243	229	220	209	199	189	183	174	162	149	137	126	117	107	99	91	84	
		0.9	0.9	1	1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2
		1	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.4	1.4	1.3	1.3	1.2	1.1	0.9	
10-1/2					352	321	301	275	251	230	210	193	177	163	150	138	127	117	107	99	90	
					1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	
					1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.7	1.8	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.3	

10" HC (TOPPED)

SPAN (Ft)

Strand Pattern	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
4-1/2	229	203	181	161	143	127	113	101	89	79	69	60	50								
	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.1								
	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0	-0.1	-0.2	-0.3	-0.4								
5-1/2	297	268	241	216	194	175	157	142	128	115	103	92	79	68	58	48					
	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.3	0.3	0.2					
	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0	-0.1	-0.2	-0.4	-0.5	-0.7	-0.9					
6-1/2		286	272	259	244	221	200	182	165	150	136	123	109	96	84	73	63	54			
		0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.4			
		0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.2	0	-0.1	-0.3	-0.5	-0.7	-0.9			
8-1/2			287	271	259	245	232	224	213	202	193	179	153	148	134	121	110	99	88	78	69
			1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.1	1	
			1	1	1	1	1	1	1	0.9	0.9	0.8	0.7	0.6	0.5	0.3	0.1	-0.1	-0.3	-0.6	
10-1/2					372	339	309	283	259	237	217	199	183	168	154	141	130	119	109	98	87
					1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.6	1.6	1.5	1.5	
					1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.1	1	0.9	0.8	0.7	0.5	0.3