



Section Properties

Untopped Topped (2")

A	=	197 in ²	
I	=	1582 in ⁴	2875 in ⁴
Y _b	=	4.15 in	5.48 in
Y _t	=	3.85 in	4.52 in
S _b	=	381 in ³	524 in ³
S _t	=	411 in ³	636 in ³
B _w	=	11.40 in	11.40 in
wt	=	57 psf	82 psf

Key

- 180 - Safe superimposed live load, psf
- 0.2 - Estimated Camber at Erection, in
- 0.3 - Estimated Long-Time Camber, in

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

8" HC (UNTOPPED)

SPAN (Ft)

Strand Pattern	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
5-3/8	180	155	133	114	98	84	72	62	54	45	38										
	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1										
	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.2	0.1	0	-0.1										
4-1/2	274	236	204	177	154	134	117	102	89	77	67	57	49	42	35						
	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.2	0.1	0	-0.1	-0.2	-0.3						
	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0	-0.1	-0.2	-0.3	-0.4	-0.5						
5-1/2	317	296	275	255	225	200	179	160	143	128	115	104	93	84	76	68	61	55	49	44	39
	0.6	0.6	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.5	0.4	0.3	0.2	0.1
	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.4	0.3	0.2	0	-0.2	-0.4	-0.6	-0.9
6-1/2	326	302	284	266	250	236	218	197	176	159	143	130	117	107	97	88	80	72	65	59	54
	0.7	0.8	0.8	0.9	0.9	1.1	1.2	1.3	1.4	1.5	1.6	1.5	1.4	1.3	1.2	1.1	1	0.9	0.8	0.7	0.6
	0.6	0.7	0.8	0.8	0.9	0.9	0.9	1	1	1	1	1	0.9	0.9	0.8	0.7	0.6	0.4	0.2	0	-0.2
7-1/2	335	311	290	272	256	242	229	215	205	188	170	154	141	128	117	106	97	89	81	74	67
	0.6	0.6	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.6	1.5	1.3	1.1	0.9	0.7	0.5	0.3
	0.38	0.8	0.9	1	1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.1	1	0.9	0.7	0.5

8" HC (TOPPED)

SPAN (Ft)

Strand Pattern	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
5-3/8	180	155	133	114	98	84	72	62	54	45	38										
	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1										
	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.2	0.1	0	-0.1										
4-1/2	256	222	192	167	145	126	109	94	81	69	59	49	41	33							
	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0	-0.1							
	0.2	0.2	0.2	0.1	0.1	0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6	-0.7	-0.8							
5-1/2	352	317	279	248	220	196	174	156	139	124	111	98	84	71	60	50	40				
	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1	1	0.9	0.8	0.7	0.6	0.5	0.4	0.3				
	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.1	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6				
6-1/2		337	316	297	268	239	215	193	173	156	141	127	114	100	87	75	64	54	45	36	
		0.6	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	1.3	1.2	1.1	1	0.9	0.8	0.7	0.6	0.5	0.4	
		0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0	-0.2	-0.4	-0.6	-0.9	-1.2	-1.6	
7-1/2		346	325	306	286	271	252	227	205	186	168	152	138	124	111	98	86	76	66	56	47
		0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1	0.9	0.8
		0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.7	0.6	0.5	0.3	0.1	-0.1	-0.3	-0.6	-0.9	-1.3