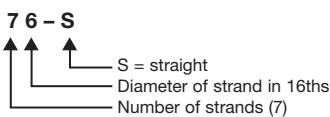


3.6 Hollow-Core Load Tables

3

Strand Pattern Designation



Load capacities shown include dead load of 10 lb/ft² for untopped members and 15 lb/ft² for topped members. Remainder is live load. Long-time cambers include superimposed dead load but do not include live load.

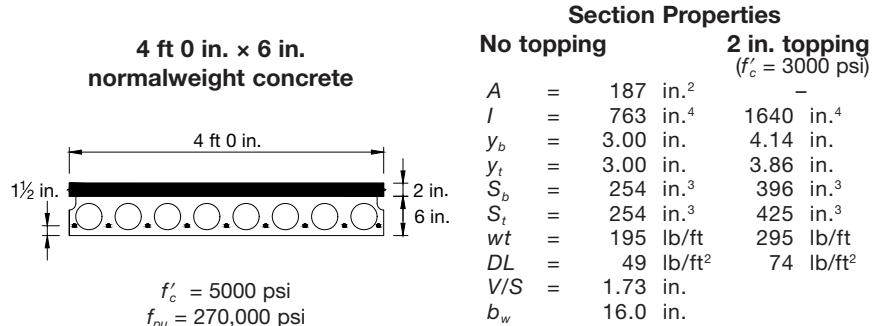
Capacity of sections of other configurations are similar. For precise values, see local hollow-core manufacturer.

Key

290 – Superimposed service load capacity, lb/ft²

0.1 – Estimated camber at erection, in.

0.2 – Estimated long-time camber, in.



Section Properties	
No topping	2 in. topping ($f'_c = 3000 \text{ psi}$)
A = 187 in. ²	–
I = 763 in. ⁴	1640 in. ⁴
y_b = 3.00 in.	4.14 in.
y_t = 3.00 in.	3.86 in.
S_b = 254 in. ³	396 in. ³
S_t = 254 in. ³	425 in. ³
wt = 195 lb/ft	295 lb/ft
DL = 49 lb/ft ²	74 lb/ft ²
V/S = 1.73 in.	
b_w = 16.0 in.	

Table of superimposed service load capacity, lb/ft², and cambers, in.

4HC6

No topping

Strand pattern	Span, ft																			
	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
66-S	290	258	230	206	188	171	157	145	129	114	100	88	77	68	59	52	46	40	33	
	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	-0.1	-0.2	-0.4	-0.5	-0.7		
	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.0	-0.1	-0.3	-0.5	-0.7	-0.9	-1.2	-1.5	
76-S	302	271	245	223	205	187	172	155	136	120	105	93	82	73	65	57	49	42	36	31
	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.0	-0.1	-0.3	-0.4	-0.6
	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.0	-0.1	-0.2	-0.4	-0.7	-0.9	-1.2	-1.6
96-S	385	345	315	285	262	243	225	201	177	157	139	124	110	99	88	78	68	60	53	46
	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.1	0.0	-0.1
	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.4	0.3	0.2	0.1	-0.1	-0.3	-0.6	-0.9	-1.3
87-S	391	351	316	288	265	245	226	210	197	185	167	149	134	119	107	95	85	76	68	61
	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.7	0.6	0.5	0.4	0.3
	0.4	0.5	0.5	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.7	0.7	0.6	0.5	0.5	0.3	0.2	0	-0.3	-0.6
97-S	435	391	354	324	297	274	254	236	220	203	186	166	148	133	119	107	96	86	78	70
	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	0.9	0.9	1.0	0.9	0.8	0.7	0.5	0.3	0.1	-0.2
	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.0	1.0	1.0	0.9	0.9	0.8	0.7	0.5	0.3	0.1	0.0	

Table of superimposed service load capacity, lb/ft², and cambers, in.

4HC6 + 2

2 in. normalweight topping

Strand pattern	Span, ft																		
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
66-S	333	300	272	248	227	210	182	158	136	113	93	75	59	46	34				
	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0	-0.1	-0.2					
	0.2	0.2	0.2	0.2	0.1	0.1	0.0	-0.1	-0.2	-0.3	-0.5	-0.7	-0.9	-1.2					
76-S	357	324	296	272	248	216	188	163	137	115	95	78	63	50	38	27			
	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.1	-0.0	-0.1	-0.3			
	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	-0.2	-0.3	-0.5	-0.7	-0.9	-1.2	-1.5			
96-S	418	384	353	319	279	245	216	186	160	137	116	98	82	68	55	43	33		
	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.3	0.1	0.0	-0.1	-0.7
	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	-0.1	-0.3	-0.5	-0.7	-1.0	-1.4	-1.7	
87-S	422	388	359	332	309	288	258	224	195	169	147	127	109	94	80	67	55		
	0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.7	0.6	0.5	0.4	0.3		
	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.2	0.1	-0.1	-0.3	-0.5	-0.8	-1.2		
97-S	473	433	400	371	346	323	288	251	219	192	168	146	127	110	95	82	70		
	0.5	0.6	0.7	0.7	0.8	0.8	0.9	0.9	0.9	0.9	1.0	0.9	0.9	0.9	0.8	0.7	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	0.2	0.0	-0.2	-0.5	-0.8		

Strength is based on strain compatibility; bottom tension is limited to $7.5\sqrt{f'_c}$; see pages 3–8 through 3–11 for explanation.

See Section 3.3.2, Item 3, Note 4 for explanation of vertical line.