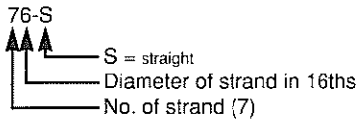


Strand Pattern Designation



Safe loads shown include dead load of 10 psf for untopped members and 15 psf for topped members. Remainder is live load. Long-time cambers include superimposed dead load but do not include live load.

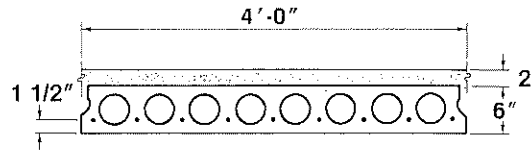
Capacity of selections of other configurations are similar. For precise values, see local hollow-core manufacturer.

Key

- 306 — Safe superimposed service load, psf
- 0.2 — Estimated camber at erection, in.
- 0.2 — Estimated long-time camber, in.

HOLLOW-CORE

4'-0" x 6"
Normal Weight Concrete



$f'_c = 5,000 \text{ psi}$

$f'_{ci} = 3,500 \text{ psi}$

Section Properties

	Untopped	Topped
A	= 187 in. ²	—
I	= 763 in. ⁴	1,640 in. ⁴
y _b	= 3.00 in.	4.14 in.
y _t	= 3.00 in.	3.86 in.
Z _b	= 254 in. ³	396 in. ³
Z _t	= 254 in. ³	425 in. ³
b _w	= 16.00 in.	16.00 in.
wt	= 195 plf	295 plf
	49 psf	74 psf
V/S	= 1.73 in.	

4HC6

Table of safe superimposed service load (psf) and cambers

No Topping

Strand Designation Code	Span, ft.																																
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30														
66-S	306	257	217	184	157	135	116	100	87	75	65	56	48	42	36	30	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	-0.1	-0.2	-0.4			
	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.0	-0.2	-0.3	-0.5	-0.7	-1.0																	
76-S	358	301	254	217	186	160	139	121	105	92	80	70	61	53	47	40	35	0.2	0.2	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	
	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.0	-0.1	-0.3	-0.5	-0.7	-1.0																
96-S	384	326	279	240	208	182	159	140	123	109	97	86	76	67	60	53	46	41	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.3	0.1	0.0	-0.1
	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.2	0.1	-0.1	-0.4	-0.6	-0.9															
87-S	383	331	286	249	218	192	169	150	133	119	106	95	84	76	68	60	54	0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.6	0.5	0.4	0.3	
	0.6	0.7	0.7	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.5	0.4	0.2	0.0	-0.3																
97-S	364	317	277	243	214	189	168	150	134	120	107	96	87	78	70	62	0.6	0.7	0.7	0.8	0.8	0.9	0.9	0.9	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.7	
	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.0	1.0	0.9	0.8	0.6	0.4	0.2																

4HC6 + 2

Table of safe superimposed service load (psf) and cambers

2" Normal Weight Topping

Strand Designation Code	Span, ft.																														
	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30														
66-S	305	258	220	188	162	139	119	97	78	62	47	35	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	-0.1								
	0.2	0.2	0.2	0.1	0.1	0.0	-0.1	-0.2	-0.3	-0.5	-0.7	-0.9																			
76-S	358	304	260	224	194	168	146	122	101	82	66	52	39	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.0						
	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	-0.2	-0.3	-0.5	-0.7	-0.9																		
96-S	390	336	291	253	221	194	170	146	123	104	87	72	58	46	35	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.3	0.1	0.0		
	0.4	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																
87-S	398	346	302	265	234	206	182	158	136	117	100	85	71	59	47	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	0.6	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	382	335	294	260	231	205	181	157	137	119	102	88	75	63	0.7	0.8	0.8	0.9	0.9	0.9	1.0	1.0	0.9	0.9	0.9	0.9	0.8	0.8	0.7		
	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 based on strain compatibility; bottom tension limited to $6\sqrt{f'_c}$; see pages 2-3-2-6 for explanation.