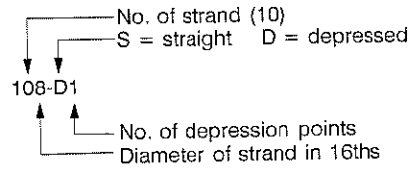


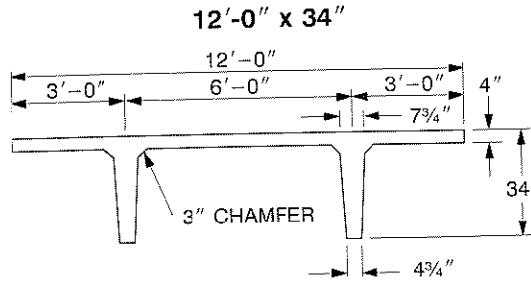
Strand Pattern Designation



Because these units are pretopped and are typically used in parking structures, safe loads shown do not include any superimposed dead loads. Loads shown are live load. Long-time cambers do not include live load.

- Key**
 176 — Safe superimposed service load, psf
 0.8 — Estimated camber at erection, in.
 1.1 — Estimated long-time camber, in.

**PRETOPPED
DOUBLE TEE**



- $f'_c = 5,000$ psi
 $f_{pu} = 270,000$ psi

Section Properties

	Normal Weight	Lightweight
A	= 978 in ²	978 in ²
I	= 86,072 in ⁴	86,072 in ⁴
y _b	= 25.77 in.	25.77 in.
y _t	= 8.23 in.	8.23 in.
S _b	= 3,340 in ³	3,340 in ³
S _t	= 10,458 in ³	10,458 in ³
wt	= 1,019 plf	781 plf
	85 psf	65 psf
V/S	= 2.39 in.	2.39 in.

12DT34

Table of safe superimposed service load (psf) and cambers (in.)

No Topping

Strand Pattern	e _s , in. e _c , in.	Span, ft																							
		42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	
128-D1	14.10	176	155	135	119	104	91	79	69	59	51	43	36	30											
	22.52	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.5												
148-D1	12.91		187	165	146	129	114	101	89	78	68	60	52	44	38	32	26								
	22.27		1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	0.9	0.7	0.6	0.4								
168-D1	12.77			196	174	155	138	123	110	97	86	76	67	59	52	45	39	33	28						
	22.02			1.2	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.2	1.1	1.0	0.8	0.6						
188-D1	11.38				178	160	143	128	115	102	91	82	73	64	57	50	43	38	32	27					
	21.77				1.5	1.5	1.6	1.6	1.7	1.7	1.7	1.7	1.6	1.5	1.5	1.4	1.2	1.1	0.9	0.6					
208-D1	10.27								131	118	106	95	85	76	68	61	54	47	41	36	31	26			
	21.52								1.8	1.9	1.9	1.9	1.9	1.9	1.8	1.7	1.6	1.5	1.3	1.1	0.9	0.6			
228-D1	9.36													109	98	88	79	71	64	57	50	44	39	34	29
	21.27													2.1	2.1	2.1	2.1	2.1	2.0	1.9	1.7	1.6	1.4	1.1	0.8

12LDT34

Table of safe superimposed service load (psf) and cambers (in.)

No Topping

Strand Pattern	e _s , in. e _c , in.	Span, ft																						
		42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86
128-D1	14.10	193	171	152	135	120	107	95	85	76	67	59	52	46	40	35	30	26						
	22.52	1.3	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.5	1.4	1.2	1.0					
148-D1	12.91			182	162	146	130	117	105	94	85	76	68	61	54	48	42	37	33	28				
	22.27			1.7	1.8	1.9	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	1.9	1.8	1.6	1.4				
168-D1	12.77				191	172	155	139	126	114	103	93	84	76	68	61	55	49	44	39	34	30	26	
	22.02				2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.7	2.7	2.7	2.7	2.6	2.5	2.4	2.3	2.1	1.9	1.6		
188-D1	11.38								144	131	119	108	98	89	81	73	66	60	54	48	43	39	34	30
	21.77								2.7	2.8	2.9	3.0	3.1	3.2	3.2	3.2	3.1	3.0	2.9	2.8	2.6	2.4	2.1	
208-D1	10.27													102	93	85	77	70	64	58	52	47	42	38
	21.52													3.5	3.6	3.6	3.6	3.6	3.6	3.5	3.4	3.3	3.1	2.9
228-D1	9.36																	80	73	67	61	56	50	45
	21.27																	4.1	4.1	4.1	4.0	3.9	3.8	3.6

Strength based on strain compatibility; bottom tension limited to $12\sqrt{f'_c}$; see pages 2-2-2-6 for explanation.
 Shaded values require release strengths higher than 3500 psi.