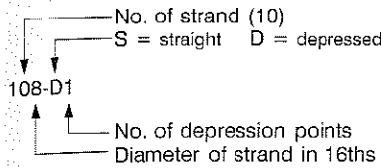


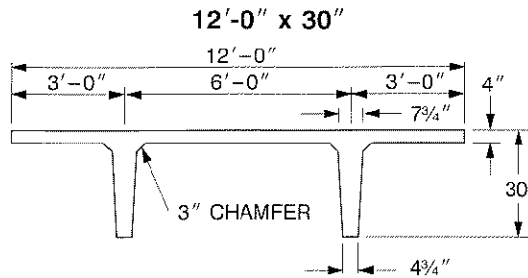
**Strand Pattern Designation**



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

**PRETOPPED  
DOUBLE TEE**



**Section Properties**

	Normal Weight	Lightweight
A	= 928 in <sup>2</sup>	928 in <sup>2</sup>
I	= 59,997 in <sup>4</sup>	59,997 in <sup>4</sup>
y <sub>b</sub>	= 22.94 in.	22.94 in.
y <sub>t</sub>	= 7.06 in.	7.06 in.
S <sub>b</sub>	= 2,615 in <sup>3</sup>	2,615 in <sup>3</sup>
S <sub>t</sub>	= 8,497 in <sup>3</sup>	8,497 in <sup>3</sup>
wt	= 967 plf	741 plf
V/S	= 81 psf	62 psf
	= 2.30 in.	2.30 in.

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

**12DT30**

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

**No Topping**

Strand Pattern	e <sub>e</sub> , in. e <sub>c</sub> , in.	Span, ft																							
		40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82		
128-D1	11.10 19.25	167	145	126	110	95	82	71	61	52	44	37	30												
		0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.7	0.6	0.5												
		1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	0.9	0.8	0.6												
148-D1	9.91 19.27	200	175	153	135	118	104	91	79	69	60	52	44	37	31	25									
		1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	0.9	0.7	0.6	0.4										
		1.3	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.3	1.2	1.0	0.7	0.4										
168-D1	9.77 19.02			182	161	142	126	111	98	87	76	67	58	51	44	37	31	26							
				1.2	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.2	1.1	0.9	0.7	0.5							
				1.7	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.8	1.7	1.6	1.4	1.2	0.9	0.6							
188-D1	8.38 18.77						145	129	114	102	90	80	71	62	54	47	41	35	30						
							1.5	1.6	1.6	1.6	1.7	1.6	1.6	1.5	1.4	1.3	1.2	1.0	0.7						
							2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.0	1.9	1.7	1.5	1.2	0.9						
208-D1	7.27 18.52									116	104	93	83	73	65	57	50	44	38	33	28				
										1.8	1.8	1.8	1.8	1.8	1.8	1.6	1.5	1.4	1.2	0.9	0.6				
										2.5	2.5	2.5	2.4	2.3	2.3	2.1	1.9	1.7	1.5	1.1	0.7				
228-D1	6.36 18.27														94	84	75	67	60	53	46	40	35	30	25
															2.0	2.0	2.0	1.9	1.9	1.7	1.6	1.3	1.1	0.8	0.4
															2.7	2.7	2.6	2.5	2.4	2.2	1.9	1.7	1.4	0.9	0.4

**12LDT30**

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

**No Topping**

Strand Pattern	e <sub>e</sub> , in. e <sub>c</sub> , in.	Span, ft																									
		40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84			
128-D1	11.10 19.52	182	160	142	125	111	98	87	77	68	60	52	46	40	34	29											
		1.3	1.5	1.5	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.5	1.4	1.2											
		1.8	1.9	2.0	2.1	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.1	2.0	1.8	1.6											
148-D1	9.91 19.27		191	169	150	134	119	106	95	85	76	67	60	53	47	41	36	31	27								
			1.7	1.7	1.9	2.0	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.0	1.9	1.7	1.6	1.3								
			2.2	2.3	2.5	2.6	2.7	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.6	2.4	2.2	2.0	1.7								
168-D1	9.77 19.02				176	158	141	127	114	102	92	82	74	66	59	53	47	42	37	32	28						
					2.1	2.2	2.4	2.5	2.6	2.7	2.7	2.8	2.8	2.7	2.7	2.6	2.5	2.4	2.2	2.0	1.8						
					2.9	3.1	3.2	3.3	3.4	3.5	3.6	3.6	3.6	3.5	3.4	3.3	3.2	3.0	2.8	2.5	2.2						
188-D1	8.38 18.77									117	106	96	86	78	70	63	57	51	45	40	36	31	27				
										2.9	3.0	3.1	3.1	3.2	3.2	3.2	3.1	2.9	2.8	2.6	2.4	2.2	1.9				
										3.9	4.0	4.1	4.1	4.1	4.1	4.0	3.8	3.6	3.4	3.2	3.0	2.6	2.3				
208-D1	7.27 18.52														89	81	73	66	60	54	48	43	39	34	30		
															3.5	3.5	3.5	3.5	3.5	3.4	3.3	3.1	2.8	2.6	2.3		
															4.6	4.6	4.6	4.5	4.4	4.2	3.9	3.6	3.4	3.0	2.6		
228-D1	6.36 18.27																				68	62	56	51	46	41	37
																					3.9	3.9	3.8	3.7	3.5	3.3	3.0
																					5.0	4.9	4.7	4.4	4.1	3.7	3.4

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.