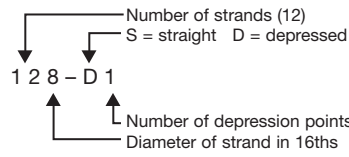


### 3.4 Double-Tee Load Tables (cont.)

#### Strand Pattern Designation

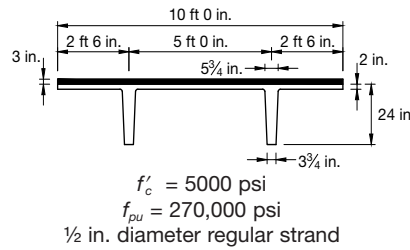


Load capacities shown include dead load of 10 lb/ft<sup>2</sup> for untopped members and 15 lb/ft<sup>2</sup> for topped members. Remainder is live load. Long-time cambers include superimposed dead load but do not include live load.

- Key  
179 – Superimposed service load capacity, lb/ft<sup>2</sup>  
1.0 – Estimated camber at erection, in.  
1.3 – Estimated long-time camber, in.

Check with regional producers for availability.

10 ft 0 in. x 24 in.  
lightweight (115 lb/ft<sup>3</sup>) concrete



Section Properties	
No topping	3 in. topping ( $f'_c = 3000$ psi)
$A$	449 in. <sup>2</sup>
$I$	22,469 in. <sup>4</sup>
$y_b$	17.77 in.
$y_t$	6.23 in.
$S_b$	1264 in. <sup>3</sup>
$S_t$	3607 in. <sup>3</sup>
$wt$	359 lb/ft
$DL$	36 lb/ft <sup>2</sup>
$V/S$	1.35 in.
	35,662 in. <sup>4</sup>
	21.49 in.
	5.51 in.
	1660 in. <sup>3</sup>
	6468 in. <sup>3</sup>
	734 lb/ft
	73 lb/ft <sup>2</sup>

10LDT24  
No topping

Table of superimposed service load capacity, lb/ft<sup>2</sup>, and cambers, in.

Strand pattern	$y_s$ (end) $y_s$ (center), in.	Span, ft																											
		30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80		
68-S	4.00	179	155	134	117	103	90	80	70	62	55	49	43	38	34	30	26												
	4.00	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.5												
		1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.8	1.8	1.8	1.7	1.6	1.5	1.3	1.0	0.9												
88-S	5.00			175	154	136	120	107	95	85	76	68	61	55	49	44	40	36	32	29	26								
	5.00			1.6	1.7	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.6	2.7	2.7	2.7	2.7	2.6	2.5	2.4								
				2.0	2.2	2.3	2.4	2.5	2.6	2.8	2.8	2.7	2.7	2.7	2.7	2.5	2.3	2.1	1.8	1.3	0.9								
108-S	6.00				185	164	145	130	116	104	94	84	76	69	62	56	51	46	42	38	34	31	27						
	6.00				2.0	2.1	2.3	2.5	2.6	2.8	2.9	3.1	3.2	3.3	3.4	3.5	3.6	3.5	3.4	3.3	3.2	3.1							
					2.6	2.8	3.0	3.2	3.3	3.5	3.6	3.7	3.7	3.8	3.8	3.6	3.5	3.4	3.1	2.7	2.4	1.8	1.4						
128-S	7.00									108	98	87	78	70	63	57	53	48	44	41	38	34	31	27					
	7.00									3.4	3.5	3.6	3.8	4.0	4.0	4.1	4.2	4.2	4.1	4.1	4.1	3.9	3.8	3.7					
										4.1	4.2	4.3	4.4	4.5	4.5	4.4	4.3	4.0	3.7	3.3	3.1	2.3	1.8	1.3					
128-D1	11.67																74	66	61	56	52	48	44	39	36	33	30		
	3.25																4.6	4.6	4.7	4.8	4.8	4.8	4.7	4.5	4.3	4.0	3.9		
																	4.8	4.7	4.6	4.6	4.3	4.0	3.6	2.8	2.1	1.5	0.9		
148-D1	12.86																												
	3.50																												

10LDT24 + 3  
3 in. normalweight topping

Table of superimposed service load capacity, lb/ft<sup>2</sup>, and cambers, in.

Strand pattern	$y_s$ (end) $y_s$ (center), in.	Span, ft																									
		30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66							
68-S	4.00	181	154	130	111	95	80	68	57	48	40	32	22														
	4.00	1.0	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.8														
		0.9	0.9	0.9	1.0	1.0	1.0	0.9	0.7	0.6	0.3	0.0	-0.4														
88-S	5.00			176	152	132	114	98	86	74	64	55	44	34	28												
	5.00			1.6	1.7	1.9	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.7	2.7												
				1.5	1.5	1.6	1.6	1.6	1.5	1.3	1.2	0.9	0.6	0.2	-0.4												
108-S	6.00				188	165	144	126	111	97	84	74	62	52	41	33	27										
	6.00				2.0	2.2	2.4	2.5	2.6	2.8	3.0	3.1	3.3	3.4	3.4	3.5	3.6										
					1.9	1.9	2.0	2.0	2.0	1.9	1.8	1.6	1.3	1.1	0.7	0.1	-0.3										
128-S	7.00										100	86	76	64	54	44	34	28									
	7.00										3.4	3.6	3.7	3.8	4.0	4.1	4.2	4.2									
											2.3	2.1	2.0	1.7	1.5	1.0	0.4	-0.1									
128-D1	11.67																										
	3.25																										

Strength is based on strain compatibility; bottom tension is limited to  $12\sqrt{f'_c}$ ; see pages 3-8 through 3-11 for explanation. Shaded values require release strengths higher than 3500 psi.