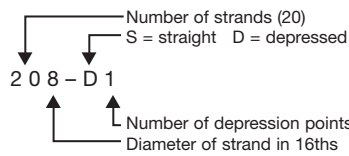


3.4 Double-Tee Load Tables (cont.)

Strand Pattern Designation

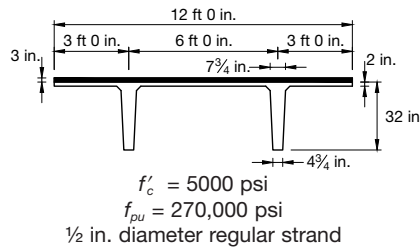


Load capacities shown include dead load of 10 lb/ft² for untopped members and 15 lb/ft² for topped members. Remainder is live load. Long-time cambers include superimposed dead load but do not include live load.

- Key
 184 – Superimposed service load capacity, lb/ft²
 1.5 – Estimated camber at erection, in.
 1.9 – Estimated long-time camber, in.

Check with regional producers for availability.

12 ft 0 in. x 32 in. lightweight (115 lb/ft³) concrete



Section Properties

	No topping	3 in. topping (f' _c = 3000 psi)
A	= 663 in. ²	–
I	= 63,362 in. ⁴	97,363 in. ⁴
y _b	= 22.63 in.	27.30 in.
y _t	= 9.37 in.	7.70 in.
S _b	= 2800 in. ³	3567 in. ³
S _t	= 6761 in. ³	12,636 in. ³
wt	= 530 lb/ft	980 lb/ft
DL	= 44 lb/ft ²	82 lb/ft ²
V/S	= 1.63 in.	

12LDT32

No topping

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

Strand pattern	y _s (end) y _s (center), 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	88	90	92	94	96	98	100	102			
128-S	7.00	184	166	149	135	122	110	100	91	83	75	68	62	57	52	47	43	39	35	31															
	7.00	1.5	1.6	1.7	1.8	1.9	2.0	2.0	2.1	2.2	2.3	2.3	2.3	2.2	2.2	2.1	2.0	1.9	1.8	1.8															
148-S	8.00	188	170	154	138	126	114	104	96	86	80	72	66	60	56	50	46	42	38	36	32	28													
	8.00	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.6	2.6	2.5	2.4	2.3	2.2	2.0	1.9													
168-S	9.00	188	170	155	141	128	116	106	98	90	80	74	68	63	58	53	50	45	41	37	34	31	28												
	9.00	2.2	2.3	2.5	2.6	2.7	2.9	2.9	3.1	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.2	3.0	3.0	2.8	2.7	2.6													
188-S	10.00	202	184	166	152	138	126	116	104	96	88	80	74	66	62	56	51	47	43	40	36	33	30	28											
	10.00	2.2	2.3	2.4	2.5	2.7	2.8	2.8	2.9	3.0	3.1	3.1	3.2	3.2	3.2	3.1	3.1	3.0	3.0	2.8	2.6	2.4	2.2	2.0											
208-D1	15.50																																		
	4.25																																		
228-D1	16.41																																		
	4.50																																		

12LDT32 + 3

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

3 in. normalweight topping

Strand pattern	y _s (end) y _s (center), 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	88											
128-S	7.00	181	160	142	125	111	99	88	78	68	60	52	46	40	32	26																				
	7.00	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.3	2.3	2.3	2.3	2.4	2.3	2.2																				
148-S	8.00	186	165	147	130	116	103	93	82	73	64	55	46	40	34	28																				
	8.00	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.7	2.7	2.7	2.7	2.6																				
168-S	9.00	186	166	148	132	118	105	95	85	76	68	60	52	45	38	29																				
	9.00	2.1	2.2	2.3	2.5	2.5	2.6	2.7	2.8	2.9	2.9	3.0	3.0	3.0	2.9	2.9																				
188-S	10.00	204	183	164	146	130	118	104	94	83	74	66	58	50	42	35	27																			
	10.00	2.1	2.3	2.5	2.6	2.7	2.8	2.9	3.0	3.0	3.1	3.2	3.2	3.2	3.2	3.2	3.2																			
208-D1	15.50																																			
	4.25																																			
228-D1	16.41																																			
	4.50																																			

Strength is based on strain compatibility; bottom tension is limited to 12√f'_c; see pages 3–8 through 3–11 for explanation.

Shaded values require release strengths higher than 3500 psi.