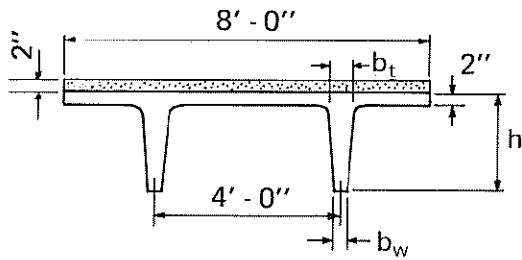


DOUBLE TEE TYPE "B" LOAD TABLE

8' - 0" Wide
Wide Stem Sections
Lightweight Concrete



Section Properties							
Designation	h (in.)	b _t /b _w (in.)	I (in. ⁴)	y _b (in.)	Z _o (in. ³)	Z _t (in. ³)	wt (plf)
8LDT16A+2	16	8.00/6.00	13,877	13.26	1047	2928	510
8LDT18A+2	18	9.75/7.75	22,426	14.13	1587	3820	577
8LDT20A+2	20	8.00/5.50	23,970	16.18	1482	4119	547
8LDT20B+2	20	9.75/7.50	29,121	15.49	1830	4473	601
8LDT24A+2	24	8.00/5.00	37,139	19.08	1947	5357	582
8LDT24B+2	24	9.75/7.00	45,562	18.20	2503	5841	647
8LDT32A+2	32	8.00/4.00	71,483	24.95	2865	7899	639
8LDT32B+2	32	9.75/6.00	90,935	23.60	3853	8744	731

Key

- 38 – Safe superimposed load, psf
- 1.67 – Anticipated ~~initial~~ *long term* camber, in.
- 2.05 – Deflection due to superimposed load shown, in.

Table of Safe Superimposed Loads, Cambers and Deflections

2" Normal Weight Topping

Designation	No. Strand	e _e e _c	Span, ft.																				
			30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64			
8LDT 16A+2	8	5.13 8.88	180*	152*	128*	109*	92*	78*	66*	55*	46*	37	27										
			1.40	1.54	1.67	1.78	1.85	1.89	1.89	1.86	1.79	1.66	1.49										
8LDT 18A+2	12	5.17 9.34							152*	133*	115*	101*	87*	76*	66*	57*	47	38	29				
									2.05	2.18	2.27	2.32	2.32	2.28	2.20	2.08	1.90	1.67	1.38				
8LDT 20A+2	12	5.05 11.22									106*	93*	82*	72*	63*	53	44	36	28				
											2.62	2.71	2.79	2.83	2.84	2.82	2.75	2.56	2.31				
8LDT 20B+2	16	4.06 10.31													114*	101*	89*	79*	70*	60	50		
															2.80	2.85	2.88	2.86	2.81	2.71	2.54	2.31	

Designation	No. Strand	e _e e _c	Span, ft.																			
			56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90		
8LDT 24A+2	12	6.33 13.83	86*	77*	68*	59*	51	43	35	28												
			2.56	2.59	2.58	2.50	2.37	2.21	2.00	1.75												
8LDT 24B+2	16	6.51 12.76	123*	110*	99*	88*	79*	70*	61	52	44	36										
			2.78	2.84	2.87	2.87	2.78	2.66	2.49	2.27	2.01	1.70										
8LDT 32A+2	16	7.46 17.96							103*	94*	85*	76	67	58	51	44	37	31				
									2.99	3.02	3.03	3.01	2.97	2.90	2.79	2.61	2.37	2.08				
8LDT 32B+2	20	7.67 17.47							139*	126*	115*	105*	96*	87*	78	69	60	52	45	38		
									3.03	3.07	3.08	3.07	3.03	2.97	2.84	2.65	2.42	2.15	1.84	1.48		

*Capacity governed by ultimate strength
f_c = 5000 psi f_{pu} = 270,000 psi Values below heavy line require release strengths higher than 3500 psi