

DOUBLE TEE

TYPE "A" LOAD TABLE

4DT 14

Table of safe superimposed live load (psf)

Normal Weight Concrete

No Topping

4'-0" x 14" Double Tee

Strand Pattern	Span, ft															
	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
27-S	94*	71*	54*	40*	29*											
47-S				98*	79*	64*	52*	41*	32*	25*						
67-S					98*	80*	66*	54*	44*	35*						
47-D1						97*	80*	66*	55*	45*	37*	30*	24*			
67-D1								108*	92*	79*	67*	57*	49*	41*	35*	28
87-D1														51	44	

Dead Load	f _t f _b a	Span, ft															
		20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
100 plf Live Load	f _t	157	190	226	265	307	353	402	454	509	567	628	692	760	831	905	982
	f _b	-392	-475	-565	-663	-769	-883	-1005	-1135	-1272	-1418	-1571	-1732	-1901	-2077	-2262	-2455
	a	0.066	0.096	0.136	0.188	0.252	0.333	0.431	0.549	0.690	0.856	1.051	1.278	1.539	1.839	2.180	2.567

*Capacity governed by ultimate strength

Values below heavy line require release strengths higher than 3500 psi

f_c = 5000 psi

f_{pu} = 270,000 psi

Notation

f_t = top fiber stress, psi (after assumed 22% loss)

f_b = bottom fiber stress, psi (after assumed 22% loss)

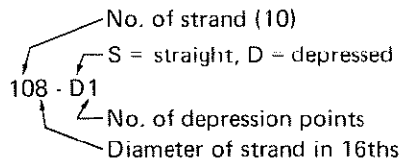
a = center deflection, in.

0.001 l² α = initial center camber, in. (after assumed 10% loss)

l = span (ft)

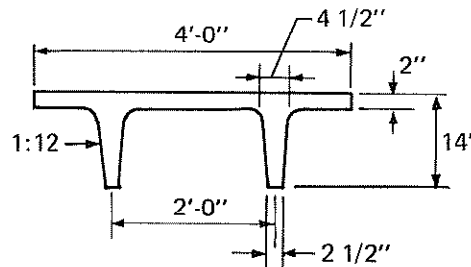
M_u = ult. moment capacity, in.-kips

Strand Pattern Designation



Section Properties

- A = 180 in.²
- I = 2864 in.⁴
- y_b = 10.00 in.
- y_t = 4.00 in.
- Z_b = 286 in.³
- Z_t = 716 in.³
- wt = 188 plf
- 47 psf



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No Topping
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