

SAFE LOAD TABLE

HI-STRESS FLEXICORE

10 x 16 Section

Tabulated loads are based on D.L. > L.L.

$M_u = 1.8 (M_d + M_l)$  with no topping or non structural topping

SEE INSTRUCTIONS BELOW FOR USING TABLE

Uniformly distributed superimposed load \* in # /  $\square'$

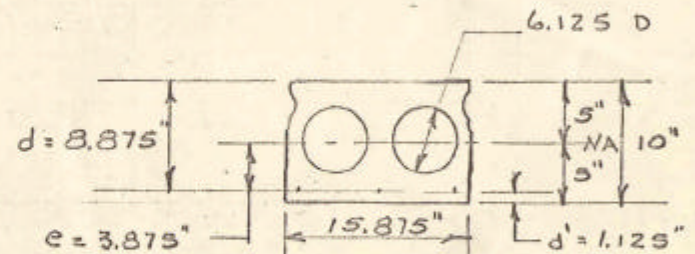
St'd Design	7 wire P/S Strand Comb'n	P/S Strand Area $\square''$	Ultimate Bending Moment $M_u = K^1/\text{unit}$	Simple span in feet, center to center of end bearing																				
				18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36		
PT 44	4 - 7/16	0.436	67.9		548	487	435	389	349	314	284	256	232	210	191	173	157	142	129	117	106	96		
PT 41	3 - 7/16, 1 - 3/8	0.407	64.1	581	513	465	406	363	325	292	263	238	215	194	176	159	144	130	118	106	96	86		
PT 38	2 - 7/16, 2 - 3/8	0.379	60.2	541	477	423	376	336	301	270	242	218	197	177	160	144	130	117	106	95	85	76		
PT 35	1 - 7/16, 3 - 3/8	0.349	56.2	500	440	390	346	308	276	247	221	199	178	160	144	130	116	104	93	84	74	66		
PT 33	3 - 7/16	0.327	53.1	468	412	364	323	287	266	229	205	183	164	147	132	118	106	94	84	75	66	58		
PT 30	2 - 7/16, 1 - 3/8	0.298	48.9	425	373	329	291	258	230	204	182	163	145	129	115	103	91	81	71	62	55	47		
PT 27	1 - 7/16, 2 - 3/8	0.269	44.7	381	334	294	259	229	203	180	160	142	126	112	99	87	77	67	58	50	43	36		
PT 24	3 - 3/8	0.240	40.3	336	294	257	226	199	175	155	136	120	106	93	81	71	61	53	45	38				
PT 22	2 - 7/16	0.218	37.0	302	263	230	201	176	155	136	119	104	91	79	68	59	50	42						
PT 16	2 - 3/8	0.160	27.7	206	177	152	131	112	96	82	69	58	48	39										
PT 12	2 - 5/16	0.116	20.4	131	110	91	76	62	50	40														

\* Includes the live load plus any dead load that is additional to the weight of bare slab

Notation

- $W_s$  = Superimposed uniform safe load in # /  $\square'$
- $W_L$  = Uniform live load in # /  $\square'$
- $W_d$  = Total D.L. including wgt. of Flexicore of 78# /  $\square'$
- $W_{ad}$  = Dead load other than Flexicore in # /  $\square'$
- $M_u$  = Ultimate bending moment in  $K^1$  per unit
- $L$  = Span in ft. c. to c. of end bearing

Specification & Physical Properties



- $A = 99.8 \text{ in}^2$
- $I = 1184 \text{ in}^4$
- $f_c^1 = 5000 \text{ psi}$
- $f_c^i = 3500 \text{ psi}$
- $f_s = 250,000 \text{ psi}$
- $f_{sl} = 175,000 \text{ psi}$

Design based on ACI - ASCE Joint Committee 323  
Grouted wt. 78# /  $\square'$

Instructions for using table

$W_d > W_L$	$W_d < W_L$
$W_s = \frac{3333 M_u}{L^2} - 78$	$M_u = \frac{L^2}{2500} (W_L + \frac{W_{ad}}{2} + 39)$

Shear

- No. 9 stirrups @ 3" below dashed line
- No. 9 stirrups @ 1 1/2" between solid & dashed line
- No. 9 stirrups @ 1" above solid line