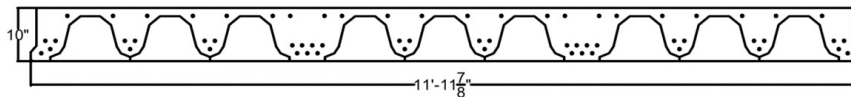


# T-SLAB®

## Load Table for Simply Supported 10 inch T-SLAB® Floor Members

E is 0.86*57000* $\sqrt{F'c}$
10" thick T-SLAB® - 11' - 11 7/8" Wide
Self weight of Deck-95 psf (Unit wt of Light Aggregate Concrete 55 pcf)
Super Imposed DL 20 psf (5 psf collateral + 15 psf gypsum concrete)
DL growth +LL deflection is limited to L/240
All loads indicated are unfactored
Loads correspond to 7.5* $\sqrt{F'c}$ if mid span service stress governs

$f'_{ci}$	=	4500 PSI
$f'_c$	=	8000 PSI
$f_{pu}$	=	270 KSI
$W_t$	=	95 PSF
SIDL	=	20 PSF
1/2" dia strand A	=	0.153 IN <sup>2</sup>



Analysis		Span (ft)					
		26	30	34	38	42	46
32 strands	Live Load (psf)	261	172	112	70	39	13
(2+16+14)	Camber@Completion (In)	1.54	1.62	1.62	0.89	-0.11	-1.72
2 @1.5"	DL growth +LL Defl (In)	-0.83	-1.10	-1.37	-1.67	-1.96	-2.17
16 @ 2.25"	Total Defl @Final (In)	0.70	0.52	0.06	-0.78	-2.07	-3.89
14 @ 3.875"	DCR (Mu/ØMn)	0.88	0.88	0.87	0.86	0.84	0.82
	ØMn (Kip-ft)	613	613	613	613	613	613
28 strands	Live Load (psf)	238	154	97	58	30	8
(2+16+10)	Camber@Completion (In)	1.35	1.36	1.10	0.48	-0.62	-2.34
	DL growth +LL Defl (In)	-0.78	-1.03	-1.27	-1.54	-1.82	-2.07
	Total Defl @Final (In)	0.56	0.34	0.87	-1.06	-2.44	-4.42
	DCR (Mu/ØMn)	0.91	0.90	0.88	0.87	0.86	0.89
	ØMn ((Kip-ft)	559	559	559	559	559	559
24 strands	Live Load (psf)	214	134	82	46	19	-
(2+16+6)	Camber@Completion (In)	1.15	1.10	0.77	0.06	-1.14	-
	DL growth +LL Defl (In)	-0.72	-0.94	-1.15	-1.40	-1.63	-
	Total Defl @Final (In)	0.43	0.16	-0.39	-1.35	-2.77	-
	DCR (Mu/ØMn)	0.93	0.92	0.90	0.89	0.87	-
	ØMn ((Kip-ft)	501	501	501	501	501	-
20 strands	Live Load (psf)	188	115	67	33	9	-
(2+16+2)	Camber@Completion (In)	0.95	0.84	0.43	-0.37	-1.66	-
	DL growth +LL Defl (In)	-0.66	-0.86	-1.05	-1.26	-1.46	-
	Total Defl @Final (In)	0.29	-0.02	-0.62	-1.62	-3.13	-
	DCR (Mu/ØMn)	0.97	0.96	0.94	0.91	0.95	-
	ØMn ((Kip-ft)	440	440	440	440	440	-
16 strands	Live Load (psf)	142	80	40	11	-	-
(2+14)	Camber@Completion (In)	0.55	0.30	-0.26	-1.24	-	-
70% pull	DL growth +LL Defl (In)	-0.56	-0.71	-0.87	-1.02	-	-
(this run)	Total Defl @Final (In)	0.00	-0.41	-1.12	-2.26	-	-
	DCR (Mu/ØMn)	0.97	0.95	0.93	0.92	-	-
	ØMn ((Kip-ft)	367	367	367	367	-	-
Simple Span Slab Frequency (Hz)* (Refer to 'Frequency Studies' for floor system effects)		6.36	4.75	3.68	2.94	2.40*	2.00*

Live Loads in the table represent service level live load. If a partition load or additional dead load is included, this load needs to be added to the live load. Gray shaded regions indicate designs with the cambers under 1.25" at completion.

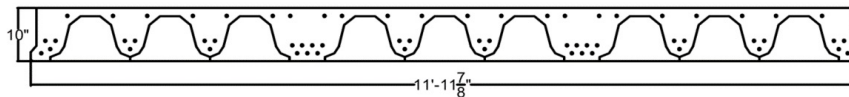
\*The simple span frequency will be significantly higher than the value shown in this table depending on how the slab is supported in the overall floor system.

# T-SLAB®

## Load Table for Simply Supported 10 inch T-SLAB® Roof Members

E is $0.86 \cdot 57000 \cdot \text{Sqrt}(F'c)$
10" thick T-SLAB® - 11' - 11 7/8" Wide ROOF Slabs
Self weight of Deck-95 psf (Unit wt of Light Aggregate Concrete 55 pcf)
Super Imposed DL is 5 psf collateral
DL growth +LL deflection is limited to L/240
All loads indicated are unfactored
Loads correspond to $7.5 \cdot \text{Sqrt}(F'c)$ if mid span service stress governs

$f'_{ci}$	=	4500 PSI
$f'_c$	=	8000 PSI
$f_{pu}$	=	270 KSI
$W_t$	=	95 PSF
SIDL	=	5 PSF
1/2" dia strand A	=	0.153 IN <sup>2</sup>



Analysis		Span (ft)					
		26	30	34	38	42	46
32 strands	Live Load (psf)	276	187	127	85	54	28
(2+16+14)	Camber@Completion (In)	1.54	1.62	1.43	0.89	-0.11	-1.72
2 @ 1.5"	DL growth +LL Defl (In)	-0.83	-1.10	-1.37	-1.67	-1.96	-2.17
16 @ 2.25"	Total Defl @Final (In)	0.70	0.52	0.06	-0.78	-2.07	-3.89
14 @ 3.875"	DCR ( $\mu/\phi M_n$ )	0.88	0.88	0.87	0.86	0.84	0.82
	$\phi M_n$ (Kip-ft)	613	613	613	613	613	613
28 strands	Live Load (psf)	253	169	112	73	45	23
(2+16+10)	Camber@Completion (In)	1.35	1.36	1.10	0.48	-0.62	-2.34
	DL growth +LL Defl (In)	-0.78	-1.03	-1.27	-1.54	-1.82	-2.07
	Total Defl @Final (In)	0.56	0.34	-0.16	-1.06	-2.44	-4.42
	DCR ( $\mu/\phi M_n$ )	0.91	0.90	0.88	0.87	0.86	0.89
	$\phi M_n$ (Kip-ft)	559	559	559	559	559	559
24 strands	Live Load (psf)	229	149	97	61	34	-
(2+16+6)	Camber@Completion (In)	1.15	1.10	0.77	0.06	-1.14	-
	DL growth +LL Defl (In)	-0.72	-0.94	-1.15	-1.40	-1.63	-
	Total Defl @Final (In)	0.43	0.16	-0.39	-1.35	-2.77	-
	DCR ( $\mu/\phi M_n$ )	0.93	0.92	0.90	0.89	0.87	-
	$\phi M_n$ (Kip-ft)	501	501	501	501	501	-
20 strands	Live Load (psf)	199	126	82	48	24	-
(2+16+2)	Camber@Completion (In)	0.95	0.84	0.43	-0.37	-1.66	-
	DL growth +LL Defl (In)	-0.66	-0.86	-1.05	-1.26	-1.46	-
	Total Defl @Final (In)	0.29	-0.02	-0.62	-1.62	-3.13	-
	DCR ( $\mu/\phi M_n$ )	0.97	0.96	0.94	0.91	0.95	-
	$\phi M_n$ (Kip-ft)	440	440	440	440	440	-
16 strands	Live Load (psf)	153	91	55	26	-	-
(2+14)	Camber@Completion (In)	0.55	0.30	-0.26	-1.24	-	-
70% pull	DL growth +LL Defl (In)	-0.56	-0.71	-0.87	-1.02	-	-
(this run)	Total Defl @Final (In)	0.00	-0.41	-1.12	-2.26	-	-
	DCR ( $\mu/\phi M_n$ )	0.97	0.95	0.93	0.92	-	-
	$\phi M_n$ (Kip-ft)	367	367	367	367	-	-

Live Loads in the table represent service level live load. If additional load from roofing materials or mechanical equipment is included, this load needs to be added to the live load.

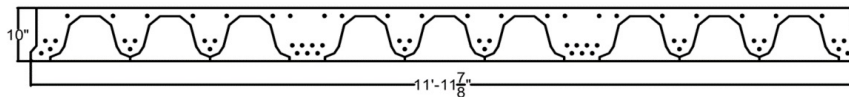
Deflections due to ponded water need to be added to the above deflections and checked with limits to avoid ponding on roofs.

# T-SLAB®

## Load Table for Simply Supported 12 inch T-SLAB® Floor Members

E is 0.86*57000* $\sqrt{F'c}$
12" thick T-SLAB® - 11' - 11 7/8" Wide
Self weight of Deck-113 psf (Unit wt of Light Aggregate Concrete 55 pcf)
Super Imposed DL 20 psf (5 psf collateral +15 psf gypsum concrete)
DL growth +LL deflection is limited to L/240
All loads indicated are unfactored
Loads correspond to 7.5* $\sqrt{F'c}$ if mid span service stress governs

$f'_{ci}$	=	4500 PSI
$f'_c$	=	8000 PSI
$f_{pu}$	=	270 KSI
$W_t$	=	113 PSF
SIDL	=	20 PSF
1/2" dia strand A	=	0.153 IN <sup>2</sup>



Analysis		Span (ft)						
		26	30	34	38	42	46	50
32 strands	Live Load (psf)	380	256	174	117	75	44	21
(2+16+14)	Camber@Completion (In)	1.37	1.54	1.53	1.31	0.78	-0.14	-1.65
2 @1.5"	DL growth +LL Defl (In)	-0.67	-0.88	-1.09	-1.33	-1.58	-1.83	-2.02
16 @ 2.25"	Total Defl @Final (In)	0.70	0.66	0.44	-0.03	-0.79	-1.97	-3.68
14 @ 3.875"	DCR ( $\mu/\phi M_n$ )	0.92	0.91	0.91	0.90	0.89	0.88	0.87
	$\phi M_n$ (Kip-ft)	812	812	812	812	812	812	812
28 strands	Live Load (psf)	344	230	152	99	61	32	10
(2+16+10)	Camber@Completion (In)	1.19	1.323	1.21	0.91	0.30	-0.73	-2.31
	DL growth +LL Defl (In)	-0.62	-0.81	-1.00	-1.22	-1.45	-1.67	-1.82
	Total Defl @Final (In)	0.57	0.51	0.22	-0.31	-1.15	-2.40	-4.13
	DCR ( $\mu/\phi M_n$ )	0.95	0.93	0.93	0.92	0.91	0.89	0.91
	$\phi M_n$ (Kip-ft)	732	732	732	732	732	732	732
24 strands	Live Load (psf)	309	202	130	82	46	19	-
(2+16+6)	Camber@Completion (In)	1.01	1.05	0.90	0.52	-0.19	-1.33	-
	DL growth +LL Defl (In)	-0.57	-0.75	-0.91	-1.12	-1.31	-1.49	-
	Total Defl @Final (In)	0.43	0.30	-0.01	-0.60	-1.50	-2.82	-
	DCR ( $\mu/\phi M_n$ )	0.98	0.97	0.95	0.94	0.93	0.91	-
	$\phi M_n$ (Kip-ft)	650	650	650	650	650	650	-
20 strands	Live Load (psf)	260	169	108	63	30	-	-
(2+16+2)	Camber@Completion (In)	0.82	0.80	0.58	0.11	-0.69	-	-
	DL growth +LL Defl (In)	-0.50	-0.66	-0.83	-1.00	-1.15	-	-
	Total Defl @Final (In)	0.32	0.14	-0.24	-0.88	-1.84	-	-
	DCR ( $\mu/\phi M_n$ )	1.00	1.00	0.99	0.97	0.95	-	-
	$\phi M_n$ (Kip-ft)	564	564	564	564	564	-	-
Simple Span Slab Frequency (Hz)* (Refer to 'Frequency Studies' for floor system effects)		7.78	5.82	4.51	3.60	2.94*	2.44*	2.07*

Live Loads in the table represent service level live load. If a partition load or additional dead load is included, this load needs to be added to the live load. Gray shaded regions indicate designs with cambers under 1.25" at completion.

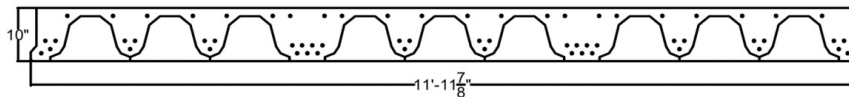
\*The simple span frequency will be significantly higher than this value depending on how the slab is supported in the overall floor system.

# T-SLAB®

## Load Table for Simply Supported 12 inch T-SLAB® Roof Members

E is $0.86 \cdot 57000 \cdot \text{Sqrt}(F'_c)$
12" thick T-SLAB® - 11' - 11 7/8" Wide ROOF Slabs
Self weight of Deck-113 psf (Unit wt of Light Aggregate Concrete 55 pcf)
Super Imposed DL is 5 psf collateral
DL growth +LL deflection is limited to L/240
All loads indicated are unfactored
Loads correspond to $7.5 \cdot \text{Sqrt}(F'_c)$ if mid span service stress governs

$f'_{ci}$	=	4500 PSI
$f'_c$	=	8000 PSI
$f_{pu}$	=	270 KSI
$W_t$	=	113 PSF
SIDL	=	5 PSF
1/2" dia strand A	=	0.153 IN <sup>2</sup>



Analysis		Span (ft)						
		26	30	34	38	42	46	50
32 strands	Live Load (psf)	395	271	189	132	90	59	36
(2+16+14)	Camber@Completion (In)	1.37	1.54	1.53	1.31	0.78	-0.14	-1.65
2 @ 1.5"	DL growth +LL Defl (In)	-0.67	-0.88	-1.09	-1.33	-1.58	-1.83	-2.02
16 @ 2.25"	Total Defl @Final (In)	0.70	0.66	0.44	-0.03	-0.79	-1.97	-3.68
14 @ 3.875"	DCR ( $\text{Mu}/\text{ØMn}$ )	0.92	0.91	0.91	0.90	0.89	0.88	0.87
	ØMn (Kip-ft)	812	812	812	812	812	812	812
28 strands	Live Load (psf)	359	245	167	114	76	47	25
(2+16+10)	Camber@Completion (In)	1.19	1.323	1.21	0.91	0.30	-0.73	-2.31
	DL growth +LL Defl (In)	-0.62	-0.81	-1.00	-1.22	-1.45	-1.67	-1.82
	Total Defl @Final (In)	0.57	0.51	0.22	-0.31	-1.15	-2.40	-4.13
	DCR ( $\text{Mu}/\text{ØMn}$ )	0.95	0.93	0.93	0.92	0.91	0.89	0.91
	ØMn ((Kip-ft)	732	732	732	732	732	732	732
24 strands	Live Load (psf)	320	213	141	97	61	34	-
(2+16+6)	Camber@Completion (In)	1.01	1.05	0.90	0.52	-0.19	-1.33	-
	DL growth +LL Defl (In)	-0.57	-0.75	-0.91	-1.12	-1.31	-1.49	-
	Total Defl @Final (In)	0.43	0.30	-0.01	-0.60	-1.50	-2.82	-
	DCR ( $\text{Mu}/\text{ØMn}$ )	0.98	0.97	0.95	0.94	0.93	0.91	-
	ØMn ((Kip-ft)	650	650	650	650	650	650	-
20 strands	Live Load (psf)	271	180	119	74	41	-	-
(2+16+2)	Camber@Completion (In)	0.82	0.80	0.58	0.11	-0.69	-	-
	DL growth +LL Defl (In)	-0.50	-0.66	-0.83	-1.00	-1.15	-	-
	Total Defl @Final (In)	0.32	0.14	-0.24	-0.88	-1.84	-	-
	DCR ( $\text{Mu}/\text{ØMn}$ )	1.00	1.00	0.99	0.97	0.95	-	-
	ØMn ((Kip-ft)	564	564	564	564	564	-	-

Live Loads in the table represent service level live load. If additional load from roofing materials or mechanical equipment is included, this load needs to be added to the live load.

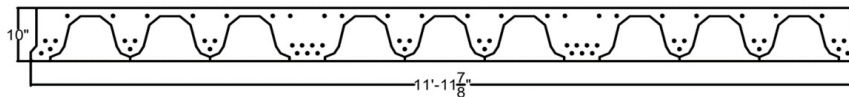
Deflections due to ponded water need to be added to the above deflections and checked with limits to avoid ponding on roofs.

# T-SLAB®

## Load Table for Simply Supported 14 inch T-SLAB® Floor Members

E is 0.86*57000* $\sqrt{F'c}$
14" thick T-SLAB® - 11' - 11 7/8" Wide
Self weight of Deck-132 psf (Unit wt of Light Aggregate Concrete 55 pcf)
Super Imposed DL 20 psf collateral
DL growth +LL deflection is limited to L/240
All loads indicated are unfactored
Loads correspond to 7.5* $\sqrt{F'c}$ if mid span service stress governs

$f'_{ci}$	=	4500 PSI
$f'_c$	=	8000 PSI
$f_{pu}$	=	270 KSI
$W_t$	=	132 PSF
SIDL	=	20 PSF
1/2" dia strand A	=	0.153 IN <sup>2</sup>



Analysis		Span (ft)						
		30	34	38	42	46	50	54
36 strands	Live Load (psf)	382	270	190	131	88	56	30
(2+16+18)	Camber@Completion (In)	1.55	1.67	1.65	1.42	0.93	-0.04	-1.23
2 @ 1.5"	DL growth +LL Defl (In)	-0.77	-0.97	-1.19	-1.40	-1.63	-1.80	-2.10
16 @ 2.25"	Total Defl @Final (In)	0.78	0.70	0.46	0.02	-0.70	-1.84	-3.32
18 @ 3.875"	DCR ( $\mu_u/\phi M_n$ )	0.931	0.93	0.92	0.91	0.90	0.90	0.89
	$\phi M_n$ (Kip-ft)	1112	1112	1112	1112	1112	1112	1112
32 strands	Live Load (psf)	348	242	167	112	72	42	18
(2+16+14)	Camber@Completion (In)	1.34	1.40	1.31	1.00	0.42	-0.61	-1.94
	DL growth +LL Defl (In)	-0.72	-0.90	-1.10	-1.29	-1.50	-1.64	-1.90
	Total Defl @Final (In)	0.62	0.50	0.21	-0.29	-1.08	-2.25	-3.84
	DCR ( $\mu_u/\phi M_n$ )	0.954	0.95	0.94	0.92	0.91	0.91	0.90
	$\phi M_n$ (Kip-ft)	1011	1011	1011	1011	1011	1011	1011
28 strands	Live Load (psf)	310	212	142	94	56	28	-
(2+16+10)	Camber@Completion (In)	1.13	1.13	0.96	0.58	-0.10	-1.19	-
	DL growth +LL Defl (In)	-0.67	-0.82	-1.00	-1.19	-1.36	-1.48	-
	Total Defl @Final (In)	0.47	0.30	-0.03	-0.61	-1.46	-2.67	-
	DCR ( $\mu_u/\phi M_n$ )	0.98	0.97	0.95	0.95	0.93	0.92	-
	$\phi M_n$ (Kip-ft)	906	906	906	906	906	906	-
24 strands	Live Load (psf)	268	182	120	74	40	13	-
(2+16+6)	Camber@Completion (In)	0.92	0.85	0.61	0.15	-0.63	-1.78	-
	DL growth +LL Defl (In)	-0.60	-0.75	-0.91	-1.07	-1.23	-1.31	-
	Total Defl @Final (In)	0.32	0.10	-0.30	-0.92	-1.85	-3.08	-
	DCR ( $\mu_u/\phi M_n$ )	1.00	1.00	0.99	0.97	0.96	0.98	-
	$\phi M_n$ (Kip-ft)	799	799	799	799	799	799	-
Simple Span Slab Frequency (Hz)* (Refer to 'Frequency Studies' for floor system effects)		6.84	5.30	4.23	3.46	2.88*	2.43*	2.08*

Live Loads in the table represent service level live load. If a partition load or additional dead load is included, this load needs to be added to the live load. Gray shaded regions indicate designs with cambers under 1.25" at completion.

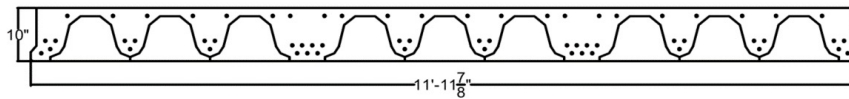
\*The simple span frequency will be significantly higher than this value depending on how the slab is supported in the overall floor system.

# T-SLAB®

## Load Table for Simply Supported 14 inch T-SLAB® Roof Members

E is 0.86*57000* $\sqrt{F'c}$
14" thick T-SLAB® - 11' - 11 7/8" Wide ROOF slabs
Self weight of Deck-132 psf (Unit wt of Light Aggregate Concrete 55 pcf)
Super Imposed DL 5 psf collateral
DL growth +LL deflection is limited to L/240
All loads indicated are unfactored
Loads correspond to 7.5* $\sqrt{F'c}$ if mid span service stress governs

$f'_{ci}$	=	4500 PSI
$f'_c$	=	8000 PSI
$f_{pu}$	=	270 KSI
$W_t$	=	132 PSF
SIDL	=	5 PSF
1/2" dia strand A	=	0.153 IN <sup>2</sup>



Analysis		Span (ft)						
		30	34	38	42	46	50	54
36 strands	Live Load (psf)	397	285	205	146	103	71	45
(2+16+18)	Camber@Completion (In)	1.55	1.67	1.65	1.42	0.93	-0.04	-1.23
2 @ 1.5"	DL growth +LL Defl (In)	-0.77	-0.97	-1.19	-1.40	-1.63	-1.80	-2.10
16 @ 2.25"	Total Defl @Final (In)	0.78	0.70	0.46	0.02	-0.70	-1.84	-3.32
18 @ 3.875"	DCR ( $\mu_u/\phi M_n$ )	0.931	0.93	0.92	0.91	0.90	0.90	0.89
	$\phi M_n$ (Kip-ft)	1112	1112	1112	1112	1112	1112	1112
32 strands	Live Load (psf)	359	253	182	127	87	57	33
(2+16+14)	Camber@Completion (In)	1.34	1.40	1.31	1.00	0.42	-0.61	-1.94
	DL growth +LL Defl (In)	-0.72	-0.90	-1.10	-1.29	-1.50	-1.64	-1.90
	Total Defl @Final (In)	0.62	0.50	0.21	-0.29	-1.08	-2.25	-3.84
	DCR ( $\mu_u/\phi M_n$ )	0.954	0.95	0.94	0.92	0.91	0.91	0.90
	$\phi M_n$ (Kip-ft)	1011	1011	1011	1011	1011	1011	1011
28 strands	Live Load (psf)	321	223	153	105	67	43	-
(2+16+10)	Camber@Completion (In)	1.13	1.13	0.96	0.58	-0.10	-1.19	-
	DL growth +LL Defl (In)	-0.67	-0.82	-1.00	-1.19	-1.36	-1.48	-
	Total Defl @Final (In)	0.47	0.30	-0.03	-0.61	-1.46	-2.67	-
	DCR ( $\mu_u/\phi M_n$ )	0.98	0.97	0.95	0.95	0.93	0.92	-
	$\phi M_n$ (Kip-ft)	906	906	906	906	906	906	-
24 strands	Live Load (psf)	279	193	131	85	51	24	-
(2+16+6)	Camber@Completion (In)	0.92	0.85	0.61	0.15	-0.63	-1.78	-
	DL growth +LL Defl (In)	-0.60	-0.75	-0.91	-1.07	-1.23	-1.31	-
	Total Defl @Final (In)	0.32	0.10	-0.30	-0.92	-1.85	-3.08	-
	DCR ( $\mu_u/\phi M_n$ )	1.00	1.00	0.99	0.97	0.96	0.98	-
	$\phi M_n$ (Kip-ft)	799	799	799	799	799	799	-

Live Loads in the table represent service level live load. If additional load from roofing materials or mechanical equipment is included, this load needs to be added to the live load.

Deflections due to ponded water need to be added to the above deflections and checked with limits to avoid ponding on roofs.