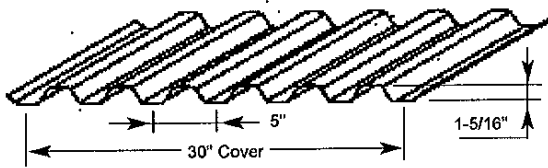


# Tensiform/Tensilvent 125



Section Properties (per ft. of width)

Fy = 80 ksi

Gage	t in	Sp in <sup>3</sup>	Sn in <sup>3</sup>	Ip in <sup>4</sup>	In in <sup>4</sup>	Wt. (psf)	
						Galv.	Black
26	0.0179	0.118	0.121	0.086	0.084	1.2	1.1
24	0.0239	0.150	0.149	0.106	0.105	1.4	1.3
22	0.0295	0.187	0.186	0.133	0.132	1.8	1.7
20	0.0358	0.224	0.223	0.159	0.159	2.1	2.0

Maximum Allowable Uniform Total Loads - psf

Type	Number of Spans	Design Condition		Span - Feet & Inches										
				4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	
26	1 Span	Stress	36 ksi	177	140	114	94	79	67	58	50	44	39	
			#240	Deflection	88	62	45	34	26	21	16	13	11	9
				#180	Deflection	118	83	60	45	35	27	22	18	15
	2 Span	Stress	36 ksi	173	138	112	93	79	67	58	51	45	40	
			#240	Deflection	173	138	108	81	62	49	39	32	26	22
				#180	Deflection	173	138	112	93	79	65	52	42	35
	3 Span	Stress	36 ksi	212	170	139	116	98	83	72	63	56	49	
			#240	Deflection	165	116	85	64	49	39	31	25	21	17
				#180	Deflection	212	155	113	85	65	51	41	33	28
24	1 Span	Stress	36 ksi	225	178	144	119	100	85	74	64	56	50	
			#240	Deflection	109	76	56	42	32	25	20	16	14	11
				#180	Deflection	145	102	74	56	43	34	27	22	18
	2 Span	Stress	36 ksi	213	170	139	115	97	83	72	63	55	49	
			#240	Deflection	213	170	133	100	77	60	48	39	32	27
				#180	Deflection	213	170	139	115	97	81	64	52	43
	3 Span	Stress	36 ksi	261	209	171	142	120	103	89	78	69	61	
			#240	Deflection	204	143	105	79	60	48	38	31	26	21
				#180	Deflection	261	191	139	105	81	63	51	41	34
22	1 Span	Stress	36 ksi	281	222	180	149	125	106	92	80	70	62	
			#240	Deflection	136	95	70	52	40	32	25	21	17	14
				#180	Deflection	181	127	93	70	54	42	34	27	23
	2 Span	Stress	36 ksi	266	212	173	144	121	104	90	78	69	61	
			#240	Deflection	266	212	167	125	96	76	61	49	41	34
				#180	Deflection	266	212	173	144	121	101	81	66	54
	3 Span	Stress	36 ksi	326	261	213	178	150	129	111	97	86	76	
			#240	Deflection	256	180	131	99	76	60	48	39	32	27
				#180	Deflection	326	240	175	132	101	80	64	52	43
20	1 Span	Stress	36 ksi	336	265	215	178	149	127	110	96	84	74	
			#240	Deflection	163	115	84	63	48	38	30	25	20	17
				#180	Deflection	218	153	111	84	64	51	41	33	27
	2 Span	Stress	36 ksi	318	254	207	172	145	124	107	94	83	73	
			#240	Deflection	318	254	201	151	116	91	73	59	49	41
				#180	Deflection	318	254	207	172	145	122	98	79	65
	3 Span	Stress	36 ksi	389	312	255	213	180	154	133	116	103	91	
			#240	Deflection	309	217	158	119	92	72	58	47	39	32
				#180	Deflection	389	289	211	158	122	96	77	62	51

# Tensiform/Tensilvent 125

## Maximum Allowable Unshored Construction Clear Spans

Slab Depth	Type	145 pcf Normal Weight Concrete				115 pcf Lightweight Concrete			
		Slab Wt. - psf	Single Span	Double Span	Triple Span	Slab Wt. - psf	Single Span	Double Span	Triple Span
3-1/2"	26	36	5'-0"	6'-8"	6'-9"	29	5'-4"	6'-10"	6'-10"
	24	36	5'-10"	7'-10"	7'-10"	29	6'-4"	8'-5"	8'-5"
	22	36	6'-9"	8'-10"	8'-5"	29	7'-4"	9'-6"	9'-1"
	20	36	7'-3"	9'-8"	8'-11"	29	7'-9"	10'-4"	9'-7"
4"	26	43	4'-9"	6'-4"	6'-5"	34	5'-1"	6'-10"	6'-10"
	24	43	5'-7"	7'-5"	7'-5"	34	6'-0"	8'-0"	8'-0"
	22	43	6'-5"	8'-5"	8'-0"	34	6'-11"	9'-0"	8'-7"
	20	43	6'-11"	9'-2"	8'-6"	34	7'-5"	9'-10"	9'-2"
4-1/2"	26	49	4'-7"	6'-1"	6'-2"	39	4'-11"	6'-6"	6'-7"
	24	49	5'-4"	7'-1"	7'-1"	39	5'-9"	7'-8"	7'-8"
	22	49	6'-1"	8'-0"	7'-8"	39	6'-7"	8'-8"	8'-3"
	20	49	6'-7"	8'-9"	8'-2"	39	7'-1"	9'-5"	8'-9"
5"	26	55	4'-4"	5'-10"	5'-11"	44	4'-9"	6'-3"	6'-4"
	24	55	5'-1"	6'-10"	6'-10"	44	5'-6"	7'-4"	7'-4"
	22	55	5'-10"	7'-8"	7'-4"	44	6'-4"	8'-4"	7'-11"
	20	55	6'-4"	8'-5"	7'-10"	44	6'-10"	9'-1"	8'-5"
5-1/2"	26	61	4'-2"	5'-8"	5'-8"	49	4'-7"	6'-1"	6'-2"
	24	61	4'-10"	6'-7"	6'-7"	49	5'-4"	7'-1"	7'-1"
	22	61	5'-7"	7'-4"	7'-1"	49	6'-1"	8'-0"	7'-8"
	20	61	6'-1"	8'-1"	7'-7"	49	6'-7"	8'-9"	8'-2"
6"	26	67	4'-1"	5'-5"	5'-6"	53	4'-5"	5'-11"	5'-11"
	24	67	4'-9"	6'-4"	6'-5"	53	5'-1"	6'-11"	6'-11"
	22	67	5'-5"	7'-1"	6'-11"	53	5'-10"	7'-9"	7'-5"
	20	67	5'-11"	7'-9"	7'-4"	53	6'-5"	8'-6"	7'-11"
6-1/2"	26	73	4'-0"	5'-3"	5'-4"	58	4'-3"	5'-9"	5'-9"
	24	73	4'-8"	6'-2"	6'-2"	58	4'-11"	6'-8"	6'-8"
	22	73	5'-4"	6'-10"	6'-8"	58	5'-8"	7'-6"	7'-3"
	20	73	5'-9"	7'-6"	7'-1"	58	6'-2"	8'-2"	7'-8"

## Allowable Uniform Superimposed Loads for Reinforced Concrete Slabs - psf

Slab Depth	Reinforcement		Three Span Condition - Center to Center						
	W.W.R.	A <sub>s</sub> (in <sup>2</sup> /ft)	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"
3-1/2"	6x6-W2.1xW2.1	0.058*	99	77	60	47	36		
	6x6-W2.9xW2.9	0.080	141	111	89	71	57	46	37
	6x6-W4.0xW4.0	0.087	161	128	102	83	67	55	45
4"	6x6-W2.9xW2.9	0.058*	130	102	80	63	49	38	
	6x6-W4.0xW4.0	0.080	186	148	118	96	78	63	51
	4x4-W2.9xW2.9	0.087	210	167	135	110	90	74	60
4-1/2"	6x6-W2.9xW2.9	0.058*	162	127	100	80	63	50	39
	6x6-W4.0xW4.0	0.080*	232	185	149	121	99	81	66
	4x4-W2.9xW2.9	0.087	260	208	168	138	113	93	77
5"	6x6-W4.0xW4.0	0.080*	278	222	179	146	120	98	81
	4x4-W2.9xW2.9	0.087*	311	249	202	165	136	113	94
	4x4-W4.0xW4.0	0.120	400	350	287	238	199	167	142
5-1/2"	6x6-W4.0xW4.0	0.080*	324	259	209	171	140	116	96
	4x4-W2.9xW2.9	0.087*	361	290	235	193	160	133	110
	4x4-W4.0xW4.0	0.120	400	400	335	278	233	196	166
6"	6x6-W4.0xW4.0	0.080*	369	296	240	196	161	134	111
	4x4-W2.9xW2.9	0.087*	400	330	269	221	183	152	127
	4x4-W4.0xW4.0	0.120	400	400	383	318	267	225	191
6-1/2"	6x6-W4.0xW4.0	0.080*	400	333	270	221	182	151	126
	4x4-W2.9xW2.9	0.087*	400	371	302	249	206	172	144
	4x4-W4.0xW4.0	0.120*	400	400	400	358	301	254	216

\*A<sub>s</sub> does not meet A.C.I. criteria for temperature and shrinkage reinforcement (0.0018Ac)