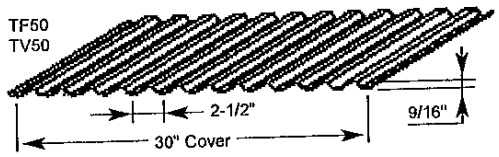
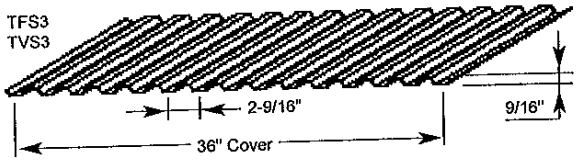
Tensilform/Tensilvent 50, S3





Section Properties (per ft. of width) Fy = 80 ksi

Gage	t in	Sp in³	Sn in³	Ip in⁴	In in⁴	Wt. (psf) Galv.	Wt. (psf) Black
28	0.0149	0.036	0.036	0.012	0.012	0.9	0.8
26	0.0179	0.045	0.046	0.015	0.014	1.0	1.0
24	0.0239	0.065	0.064	0.020	0.019	1.3	1.2
22	0.0295	0.080	0.079	0.024	0.024	1.6	1.5

Maximum Allowable Uniform Total Loads - psf

Type	Number of Spans	Design Condition		Span - Feet & Inches 2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"
28	1 Span	Stress	36 ksi	214	137	95	70	54	42	34	28
		Deflection	ℓ/240	96	49	29	18				
		Deflection	ℓ/180	129	66	38	24	16			
	2 Span	Stress	36 ksi	214	137	96	70	54	43	35	29
		Deflection	ℓ/240	214	118	68	43	29	20	15	
		Deflection	ℓ/180	214	137	91	57	38	27	20	15
	3 Span	Stress	36 ksi	266	173	120	88	67	53	43	36
		Deflection	ℓ/240	181	93	54	34	23	16		
		Deflection	ℓ/180	241	123	71	45	30	21	15	
26	1 Span	Stress	36 ksi	272	174	121	89	68	54	44	36
		Deflection	ℓ/240	120	61	36	22	15			
		Deflection	ℓ/180	160	82	47	30	20			
	2 Span	Stress	36 ksi	272	175	122	90	69	54	44	36
		Deflection	ℓ/240	272	146	85	53	36	25	18	
		Deflection	ℓ/180	272	175	113	71	48	33	24	18
	3 Span	Stress	36 ksi	337	217	152	112	86	68	55	45
		Deflection	ℓ/240	225	115	67	42	28	20		
		Deflection	ℓ/180	300	153	89	56	37	26	19	
24	1 Span	Stress	36 ksi	392	251	174	128	98	78	63	52
		Deflection	ℓ/240	160	82	47	30	20			
		Deflection	ℓ/180	213	109	63	40	27	19		
	2 Span	Stress	36 ksi	380	244	170	125	96	76	62	51
		Deflection	ℓ/240	380	196	113	71	48	34	24	18
		Deflection	ℓ/180	380	244	151	95	64	45	33	25
	3 Span	Stress	36 ksi	471	304	212	156	120	95	77	64
		Deflection	ℓ/240	301	154	89	56	38	26	19	
		Deflection	ℓ/180	402	206	119	75	50	35	26	19
22	1 Span	Stress	36 ksi	481	308	214	157	120	95	77	64
		Deflection	ℓ/240	198	101	59	37	25	17		
		Deflection	ℓ/180	264	135	78	49	33	23	17	
	2 Span	Stress	36 ksi	466	300	209	154	118	93	76	63
		Deflection	ℓ/240	466	243	141	89	59	42	30	23
		Deflection	ℓ/180	466	300	187	118	79	56	41	30
	3 Span	Stress	36 ksi	579	374	261	192	147	117	95	78
		Deflection	ℓ/240	374	191	111	70	47	33	24	18
		Deflection	ℓ/180	498	255	148	93	63	44	32	24

Tensilform/Tensilvent 50, S3

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
2-1/2"	28	28	2'-2"	2'-10"	2'-10"	23	2'-3"	2'-11"	2'-11"
	26	28	2'-8"	3'-5"	3'-6"	23	2'-9"	3'-7"	3'-7"
	24	28	3'-6"	4'-7"	4'-7"	23	3'-8"	4'-9"	4'-10"
	22	28	4'-1"	5'-4"	5'-2"	23	4'-3"	5'-7"	5'-7"
3"	28	34	2'-1"	2'-9"	2'-9"	28	2'-2"	2'-10"	2'-10"
	26	34	2'-6"	3'-3"	3'-4"	28	2'-8"	3'-5"	3'-6"
	24	34	3'-4"	4'-4"	4'-5"	28	3'-6"	4'-7"	4'-8"
	22	34	3'-10"	5'-1"	4'-10"	28	4'-1"	5'-4"	5'-3"
3-1/2"	28	41	2'-0"	2'-7"	2'-8"	32	2'-1"	2'-9"	2'-9"
	26	41	2'-5"	3'-2"	3'-3"	32	2'-7"	3'-4"	3'-4"
	24	41	3'-2"	4'-2"	4'-3"	32	3'-4"	4'-5"	4'-6"
	22	41	3'-8"	4'-10"	4'-7"	32	3'-11"	5'-2"	4'-11"
4"	28	47	1'-11"	2'-7"	2'-7"	37	2'-1"	2'-8"	2'-8"
	26	47	2'-4"	3'-1"	3'-1"	37	2'-6"	3'-3"	3'-3"
	24	47	3'-1"	4'-0"	4'-1"	37	3'-3"	4'-3"	4'-4"
	22	47	3'-6"	4'-8"	4'-5"	37	3'-9"	5'-0"	4'-9"
4-1/2"	28	53	1'-11"	2'-6"	2'-6"	42	2'-0"	2'-7"	2'-8"
	26	53	2'-3"	3'-0"	3'-0"	42	2'-5"	3'-2"	3'-2"
	24	53	2'-11"	3'-11"	3'-11"	42	3'-2"	4'-2"	4'-2"
	22	53	3'-4"	4'-6"	4'-3"	42	3'-7"	4'-10"	4'-7"
5"	28	59	1'-10"	2'-5"	2'-5"	47	1'-11"	2'-7"	2'-7"
	26	59	2'-2"	2'-11"	2'-11"	47	2'-4"	3'-1"	3'-1"
	24	59	2'-10"	3'-9"	3'-9"	47	3'-1"	4'-1"	4'-1"
	22	59	3'-3"	4'-4"	4'-1"	47	3'-6"	4'-8"	4'-4"

Allowable Uniform Superimposed Loads for Reinforced Concrete Slabs - psf

Slab Depth	Reinforcement		Three Span Condition - Center to Center						
	W.W.R.	A_s (in²/ft)	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"
2-1/2"	6x6-W1.4xW1.4	0.028*	249	151	98	66	45	31	
	6x6-W2.0xW2.0	0.040*	362	223	148	103	73	53	38
	6x6-W2.9xW2.9	0.058*	400	329	221	156	114	85	65
3"	6x6-W1.4xW1.4	0.028*	299	182	118	79	54	37	
	6x6-W2.0xW2.0	0.040*	400	269	178	124	88	64	46
	6x6-W2.9xW2.9	0.058	400	397	267	189	138	103	78
3-1/2"	6x6-W2.0xW2.0	0.040*	400	314	208	193	140	103	77
	6x6-W2.9xW2.9	0.058*	400	400	313	286	211	159	123
	6x6-W4.0xW4.0	0.080	400	400	400	392	292	224	175
4"	6x6-W2.9xW2.9	0.058*	400	400	359	356	263	200	155
	6x6-W4.0xW4.0	0.080	400	400	400	400	367	282	221
	4x4-W2.9xW2.9	0.087	400	400	400	400	400	315	248
4-1/2"	6x6-W4.0xW4.0	0.080*	400	400	400	400	400	339	267
	4x4-W2.9xW2.9	0.087	400	400	400	400	400	379	299
	4x4-W4.0xW4.0	0.120	400	400	400	400	400	400	400
5"	6x6-W4.0xW4.0	0.080*	400	400	400	400	400	397	313
	4x4-W2.9xW2.9	0.087*	400	400	400	400	400	400	349
	4x4-W4.0xW4.0	0.120	400	400	400	400	400	400	400

*A_s does not meet A.C.I. criteria for temperature and shrinkage reinforcement (0.0018Ac)