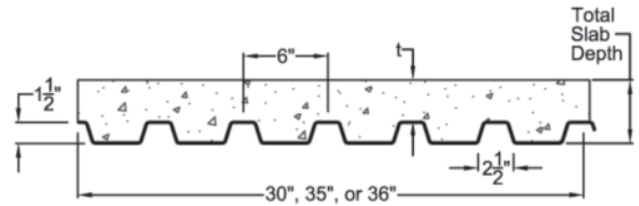


1.5 C CONFORM



MAXIMUM CONSTRUCTION CLEAR SPANS (S.D.I. CRITERIA)

Total Slab Depth	DECK	WEIGHT PSF	NW CONCRETE N=9 145 PCF			WEIGHT PSF	LW CONCRETE N=14 110 PCF		
			1 SPAN	2 SPAN	3 SPAN		1 SPAN	2 SPAN	3 SPAN
3.5 (t=2.00)	1.5C24	37	5-4	7-1	7-2	28	5-10	7-7	7-9
	1.5C22	37	5-9	7-8	7-9	29	6-4	8-2	8-5
	1.5C20	38	6-10	8-9	9-1	29	7-5	9-5	9-9
	1.5C18	38	8-5	10-3	10-8	30	9-3	11-1	11-6
4 (t=2.50)	1.5C24	43	5-1	6-9	6-10	33	5-6	7-4	7-5
	1.5C22	43	5-6	7-3	7-5	33	6-0	7-11	8-1
	1.5C20	44	6-5	8-4	8-8	34	7-1	9-1	9-5
	1.5C18	44	7-11	9-9	10-1	34	8-9	10-8	11-0
4.5 (t=3.00)	1.5C24	49	4-10	6-5	6-7	38	5-4	7-1	7-2
	1.5C22	49	5-3	6-11	7-1	38	5-9	7-7	7-9
	1.5C20	50	6-2	8-0	8-3	38	6-9	8-9	9-0
	1.5C18	51	7-6	9-4	9-8	39	8-4	10-3	10-7
5 (t=3.50)	1.5C24	55	4-8	6-2	6-4	42	5-1	6-9	6-11
	1.5C22	56	5-0	6-8	6-10	43	5-6	7-4	7-6
	1.5C20	56	5-10	7-8	7-11	43	6-6	8-5	8-8
	1.5C18	57	7-2	9-0	9-3	44	8-0	9-10	10-2
5.5 (t=4.00)	1.5C24	61	4-6	5-11	6-1	47	4-11	6-7	6-8
	1.5C22	62	4-10	6-5	6-7	47	5-4	7-1	7-2
	1.5C20	62	5-8	7-4	7-7	47	6-3	8-1	8-5
	1.5C18	63	6-11	8-8	8-11	48	7-8	9-6	9-10
6 (t=4.50)	1.5C24	67	4-4	5-9	5-11	51	4-9	6-4	6-5
	1.5C22	68	4-8	6-2	6-4	52	5-2	6-10	7-0
	1.5C20	68	5-6	7-1	7-4	52	6-0	7-10	8-1
	1.5C18	69	6-9	8-4	8-7	53	7-5	9-3	9-6
6.5 (t=5.00)	1.5C24	73	4-3	5-6	5-8	56	4-7	6-2	6-3
	1.5C22	74	4-7	6-0	6-2	56	5-0	6-8	6-9
	1.5C20	74	5-4	6-10	7-1	57	5-10	7-7	7-10
	1.5C18	75	6-7	8-1	8-4	57	7-2	8-11	9-3

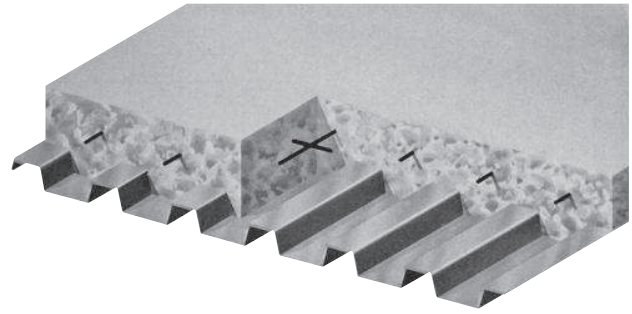
REINFORCED CONCRETE SLAB ALLOWABLE LOADS

Slab Depth	REINFORCEMENT		Superimposed Uniform Load (psf) -- 3 Span Condition										
			Clear Span (ft.-in.)										
	W.W.F.	As	4-0	4-6	5-0	5-6	6-0	6-6	7-0	7-6	8-0	8-6	9-0
3.5 (t=2.00)	6X6-W2.1XW2.1	0.042*	108	86									
	6X6-W2.9XW2.9	0.058	147	116									
	4X4-W2.9XW2.9	0.087	214	169									
4 (t=2.50)	6X6-W2.1XW2.1	0.042*	136	108	87	72							
	6X6-W2.9XW2.9	0.058	185	147	119	98							
	4X4-W2.9XW2.9	0.087	272	215	174	144							
4.5 (t=3.00)	6X6-W2.1XW2.1	0.042*	164	129	160	132	111	95	82				
	6X6-W2.9XW2.9	0.058*	224	177	215	177	149	127	110				
	4X4-W2.9XW2.9	0.087	329	260	318	263	221	188	162				
5 (t=3.50)	6X6-W2.9XW2.9	0.058*	262	207	264	218	183	156	135	117			
	4X4-W2.9XW2.9	0.087	387	306	392	324	272	232	200	174			
	4X4-W4.0XW4.0	0.120	400	400	400	400	363	310	267	233			
5.5 (t=4.00)	6X6-W2.9XW2.9	0.058*	301	238	313	259	217	185	160				
	4X4-W2.9XW2.9	0.087	400	351	400	385	323	275	237				
	4X4-W4.0XW4.0	0.120	400	400	400	400	400	370	319				
6 (t=4.50)	6X6-W2.9XW2.9	0.058*	339	268	358	296	249	212	183				
	4X4-W2.9XW2.9	0.087*	400	397	400	400	370	315	272				
	4X4-W4.0XW4.0	0.120	400	400	400	400	400	400	366				
6.5 (t=5.00)	4X4-W2.9XW2.9	0.087*	400	400	400	400	400	400	348				
	4X4-W4.0XW4.0	0.120	400	400	400	400	400	400	400				
	4X4-W5.0XW5.0	0.150	400	400	400	400	400	400	400				

- NOTES:
- * As does not meet A.C.I. criterion for temperature and shrinkage.
 - Recommended conform types are based upon S.D.I. criteria and normal weight concrete.
 - Superimposed loads are based upon three span conditions and A.C.I. moment coefficients.
 - Load values for single span and double spans are to be reduced.
 - Vulcraft's painted or galvanized form deck can be considered as permanent support in most building applications. See page 23. If uncoated form deck is used, deduct the weight of the slab from the allowable superimposed uniform loads.
 - Superimposed load values shown in bold type require that mesh be draped. See page 23.

SLAB INFORMATION

Total Slab Depth, in.	Theo. Concrete Volume		Recommended Welded Wire Fabric
	Yd ³ / 100 ft ²	ft ³ / ft ²	
3 1/2	0.92	0.247	6x6 - W1.4xW1.4
4	1.07	0.289	6x6 - W1.4xW1.4
4 1/2	1.22	0.331	6x6 - W1.4xW1.4
4 3/4	1.30	0.352	6x6 - W1.4xW1.4
5	1.38	0.372	6x6 - W2.1xW2.1
5 1/2	1.53	0.414	6x6 - W2.1xW2.1
5 3/4	1.61	0.435	6x6 - W2.1xW2.1
6	1.69	0.456	6x6 - W2.1xW2.1



SECTION PROPERTIES

Deck Type	Design Thickness in.	Deck Weight psf	Section Properties				V _a lbs/ft	F _y ksi
			I _p in ⁴ /ft	I _n in ⁴ /ft	S _p in ³ /ft	S _n in ³ /ft		
1.5C24	0.0239	1.44	0.136	0.108	0.132	0.120	2634	60
1.5C22	0.0295	1.78	0.177	0.143	0.179	0.169	2754	50
1.5C20	0.0358	2.14	0.222	0.186	0.231	0.224	3322	50
1.5C18	0.0474	2.82	0.295	0.272	0.324	0.311	4350	50

NON-COMPOSITE

ALLOWABLE UNIFORM LOAD (PSF)

TYPE NO.	NO. OF SPANS	DESIGN CRITERIA	CLEAR SPAN (ft-in)												
			4-0	4-6	5-0	5-6	6-0	6-6	7-0	7-6	8-0	8-6	9-0	9-6	10-0
1.5C24	1	Fb = 36,000	198	156	126	105	88	75	65	56	49	44	39	35	32
		Defl. = 1/240	140	98	71	54	41	33	26	21	17	15	12	10	9
		Defl. = 1/180	186	131	95	72	55	43	35	28	23	19	16	14	12
	2	Fb = 36,000	177	140	114	94	79	68	58	51	45	40	35	32	29
		Defl. = 1/240	301	212	154	116	89	70	56	46	38	31	26	22	19
		Defl. = 1/180	402	282	206	155	119	94	75	61	50	42	35	30	26
3	Fb = 36,000	220	175	142	117	99	84	73	63	56	49	44	40	36	
	Defl. = 1/240	236	166	121	91	70	55	44	36	29	25	21	18	15	
	Defl. = 1/180	314	221	161	121	93	73	59	48	39	33	28	23	20	
1.5C22	1	Fb = 30,000	223	176	143	118	99	85	73	64	56	49	44	40	36
		Defl. = 1/240	182	128	93	70	54	42	34	28	23	19	16	14	12
		Defl. = 1/180	242	170	124	93	72	56	45	37	30	25	21	18	15
	2	Fb = 30,000	207	164	133	110	93	79	68	60	52	47	41	37	34
		Defl. = 1/240	395	278	202	152	117	92	74	60	49	41	35	29	25
		Defl. = 1/180	527	370	270	203	156	123	98	80	66	55	46	39	34
3	Fb = 30,000	257	204	166	137	116	99	85	74	65	58	52	47	42	
	Defl. = 1/240	309	217	158	119	92	72	58	47	39	32	27	23	20	
	Defl. = 1/180	412	290	211	159	122	96	77	63	52	43	36	31	26	
1.5C20	1	Fb = 30,000	288	228	184	152	128	109	94	82	72	64	57	51	46
		Defl. = 1/240	228	160	117	88	67	53	42	35	28	24	20	17	15
		Defl. = 1/180	304	213	155	117	90	71	57	46	38	32	27	23	19
	2	Fb = 30,000	273	217	176	146	123	105	91	79	69	62	55	49	45
		Defl. = 1/240	504	354	258	194	149	117	94	76	63	53	44	38	32
		Defl. = 1/180	672	472	344	258	199	157	125	102	84	70	59	50	43
3	Fb = 30,000	339	269	219	182	153	131	113	98	87	77	69	62	56	
	Defl. = 1/240	394	277	202	152	117	92	74	60	49	41	35	29	25	
	Defl. = 1/180	526	369	269	202	156	123	98	80	66	55	46	39	34	
1.5C18	1	Fb = 30,000	404	319	259	214	180	153	132	115	101	90	80	72	65
		Defl. = 1/240	303	213	155	116	90	71	56	46	38	32	27	23	19
		Defl. = 1/180	404	283	207	155	120	94	75	61	50	42	35	30	26
	2	Fb = 30,000	379	301	244	203	171	146	126	110	96	85	76	68	62
		Defl. = 1/240	700	492	359	269	207	163	131	106	88	73	61	52	45
		Defl. = 1/180	934	656	478	359	277	218	174	142	117	97	82	70	60
3	Fb = 30,000	468	373	304	252	212	181	157	137	120	107	95	85	77	
	Defl. = 1/240	548	385	281	211	162	128	102	83	68	57	48	41	35	
	Defl. = 1/180	731	513	374	281	216	170	136	111	91	76	64	55	47	

Minimum exterior bearing length is 1.5 inches.
Minimum interior bearing length is 3.0 inches.