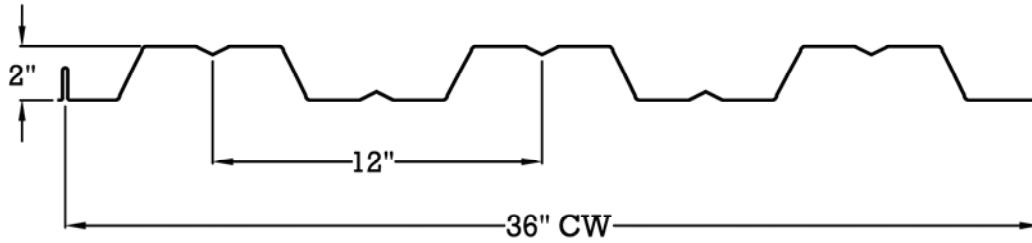


# TYPE "2.0NCF" NON-COMPOSITE FORM DECK



**SECTION PROPERTIES** FY=50 KSI FOR 22, 20 & 18 GAUGE; FY=40 KSI FOR 16 GAUGE

DECK TYPE	DESIGN THICKNESS	WT PSF	FINISH	I <sup>P</sup> IN. <sup>4</sup>	I <sup>N</sup> IN. <sup>4</sup>	S <sup>P</sup> IN. <sup>3</sup>	S <sup>N</sup> IN. <sup>3</sup>
22	.0295 IN.	1.58	GALV.	.320	.311	.295	.296
20	.0358 IN.	1.90	GALV.	.403	.392	.380	.381
18	.0474 IN.	2.50	GALV.	.550	.540	.496	.512
16	.0598 IN.	3.19	GALV.	.717	.713	.653	.653

DECK-SPAN	DECK TYPE	DESIGN THICKNESS		DECK SUPPORT SPACING (FT.-IN.)				POUNDS PER SQUARE FOOT		
				6-0	6-6	7-0	7-6	8-0	8-6	9-0
SIMPLE	22	STRESS	36000	145	124	107	93	82	72	64
		DEFLECTION L/240		95	75	60	49	40	33	28
		DEFLECTION L/180		127	100	80	65	53	45	38
	20	STRESS	36000	188	160	138	120	106	93	83
		DEFLECTION L/240		120	94	76	61	51	42	36
		DEFLECTION L/180		160	126	101	82	67	56	47
	18	STRESS	36000	284	242	209	182	160	141	126
		DEFLECTION L/240		163	128	103	83	69	57	48
		DEFLECTION L/180		217	171	137	111	92	76	64
	16	STRESS	36000	285	243	210	183	161	142	127
		DEFLECTION L/240		206	162	130	105	87	72	61
		DEFLECTION L/180		275	216	173	141	116	97	81

DOUBLE	22	STRESS	36000	145	123	106	93	81	72	64
		DEFLECTION L/240		229	180	144	117	97	81	68
		DEFLECTION L/180		305	240	192	156	129	107	90
	20	STRESS	36000	187	160	138	120	105	93	83
		DEFLECTION L/240		289	227	182	148	122	102	86
		DEFLECTION L/180		385	303	243	197	162	135	114
	18	STRESS	36000	284	242	209	182	160	141	126
		DEFLECTION L/240		163	128	103	83	69	57	48
		DEFLECTION L/180		217	171	137	111	92	76	64
	16	STRESS	36000	284	242	209	182	160	141	126
		DEFLECTION L/240		496	390	312	254	209	174	147
		DEFLECTION L/180		661	520	416	339	279	233	196

TRIPLE	22	STRESS	36000	181	154	133	116	102	90	80
		DEFLECTION L/240		180	141	113	92	76	63	53
		DEFLECTION L/180		240	188	151	123	101	84	71
	20	STRESS	36000	234	200	172	150	132	117	104
		DEFLECTION L/240		227	178	143	116	96	80	67
		DEFLECTION L/180		303	238	191	155	128	106	90
	18	STRESS	36000	355	302	261	227	200	177	158
		DEFLECTION L/240		308	243	194	158	130	108	91
		DEFLECTION L/180		411	323	259	211	174	145	122
	16	STRESS	36000	355	304	262	228	201	178	159
		DEFLECTION L/240		389	306	245	199	164	137	115
		DEFLECTION L/180		520	409	327	266	219	183	154

LOAD TABLES AND SECTION PROPERTIES WERE GENERATED BY THE SDI.  
Standard Cover Width is 36".

**TYPE "2.0NCF" NON-COMPOSITE FORM DECK**

**SLAB INFORMATION**

Total Slab Depth, inches	W.W.F	Mp	Mn	Theo. Concrete Volume	
				yd <sup>3</sup> /100ft <sup>2</sup>	ft <sup>3</sup> /ft <sup>2</sup>
4.5	6x6- W2.0 x W2.0	3.45	5.00	1.08	0.291
5	6x6- W2.0 x W2.0	4.17	5.70	1.23	0.333
5.5	6x6- W2.9 x W2.9	7.03	9.16	1.39	0.375
6	6x6- W2.9 x W2.9	8.07	10.2	1.54	0.417
6.5	6x6- W2.9 x W2.9	9.12	11.3	1.70	0.458
7	4x4- W2.9 x W2.9	15.2	18.3	1.85	0.500
4.5	6x6- W2.0 x W2.0	3.45	5.00	1.08	0.291

**MAXIMUM CONSTRUCTION CLEAR SPANS**

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
4.5 (t=2.50)	22	37.8	7-9	9-0	9-3	29.1	8-5	9-11	10-2
	20	38.2	8-8	10-3	10-8	29.4	9-4	11-4	11-8
	18	38.8	9-7	11-3	11-7	30.0	10-3	12-4	12-9
	16	39.4	10-4	12-7	13-0	30.7	11-1	13-10	14-3
5.0 (t=3.00)	22	43.9	7-4	8-7	8-10	33.7	8-0	9-5	9-9
	20	44.2	8-4	9-10	10-2	34.0	8-11	10-11	11-2
	18	44.8	9-2	10-8	11-0	34.6	9-10	11-10	12-2
	16	45.5	9-11	12-0	12-5	35.3	10-7	11-9	13-8
5.5 (t=3.50)	22	49.9	7-1	8-2	8-5	38.2	7-8	9-1	9-4
	20	50.2	8-0	9-5	9-8	38.6	8-7	10-5	10-9
	18	50.8	8-10	10-3	10-7	39.2	9-6	11-4	11-8
	16	51.5	9-6	11-6	11-10	39.9	10-3	12-8	13-1
6.0 (t=4.00)	22	56.0	6-9	7-10	8-1	42.8	7-4	8-9	9-0
	20	56.3	7-9	9-0	9-4	43.2	8-4	10-0	10-4
	18	56.9	8-7	9-10	10-2	43.8	9-2	10-11	11-3
	16	57.6	9-3	11-0	11-5	44.4	9-11	11-12	12-8
6.5 (t=4.50)	22	62.0	6-6	7-6	7-9	47.4	7-1	8-5	8-8
	20	62.3	7-6	8-8	9-0	47.7	8-1	9-8	10-0
	18	62.9	8-3	9-5	9-9	48.3	8-11	10-6	10-10
	16	63.6	8-11	10-8	11-0	49.0	9-7	11-10	12-3
7.0 (t=5.00)	22	68.0	6-1	7-0	7-3	52.0	6-8	7-10	8-2
	20	68.4	7-1	8-1	8-4	52.3	7-8	9-1	9-4
	18	69.0	7-10	8-10	9-1	52.9	8-5	9-10	10-2
	16	69.6	8-8	10-3	10-7	53.6	9-4	11-5	11-10
4.5 (t=2.50)	22	37.8	7-9	9-0	9-3	29.1	8-5	9-11	10-2
	20	38.2	8-8	10-3	10-8	29.4	9-4	11-4	11-8
	18	38.8	9-7	11-3	11-7	30.0	10-3	12-4	12-9
	16	39.4	10-4	12-7	13-0	30.7	11-1	13-10	14-3

**REINFORCED CONCRETE SLAB ALLOWABLE LOADS**

Slab Depth	Reinforcement		Superimposed Uniform Load (psf) – 3 Span Condition												
			Clear Span (ft-in.)												
	W.W.F	As	5-0	5-6	6-0	6-6	7-0	7-6	8-0	8-6	9-0	9-6	10-0	10-6	11-0
4.5 (t=2.50)	6x6- W2.0 x W2.0	0.040	108	89	75	64	55	48	42	37	33	30	27	25	22
	6x6- W2.9 x W2.9	0.058	155	128	108	92	79	69	61	54	48	43	39	35	32
	4x4- W2.9 x W2.9	0.087	231	191	160	136	118	103	90	80	71	64	58	52	48
5.0 (t=3.00)	6x6- W2.0 x W2.0	0.040	131	108	91	77	67	58	51	45	40	36	33	30	27
	6x6- W2.9 x W2.9	0.058	188	155	130	111	96	83	73	65	58	52	47	43	39
	4x4- W2.9 x W2.9	0.087	280	231	194	166	143	124	109	97	86	77	70	63	58
5.5 (t=3.50)	6x6- W2.9 x W2.9	0.058	216	178	150	128	110	96	84	75	67	60	54	49	45
	4x4- W2.9 x W2.9	0.087	321	265	223	190	164	142	125	111	99	89	80	73	66
	4x4- W4.0 x W4.0	0.120	400	358	300	256	221	192	169	150	134	120	108	98	89
6.0 (t=4.00)	6x6- W2.9 x W2.9	0.058	240	198	167	142	122	107	94	83	74	67	60	54	50
	4x4- W2.9 x W2.9	0.087	357	295	248	211	182	159	140	124	110	99	89	81	74
	4x4- W4.0 x W4.0	0.120	400	400	336	286	247	215	189	167	149	134	121	110	100
6.5 (t=4.50)	6x6- W2.9 x W2.9	0.058	265	219	184	157	135	118	103	92	82	73	66	60	55
	4x4- W2.9 x W2.9	0.087	394	326	274	233	201	175	154	136	122	109	99	89	81
	4x4- W4.0 x W4.0	0.120	400	400	371	316	273	237	209	185	165	148	134	121	110
7.0 (t=5.00)	4x4- W2.9 x W2.9	0.087	400	356	299	255	220	192	168	149	133	119	108	98	89
	4x4- W4.0 x W4.0	0.120	400	400	400	346	299	260	229	202	181	162	146	133	121
	4x4- W5.0 x W5.0	0.150	400	400	400	400	368	321	282	250	223	200	180	164	149