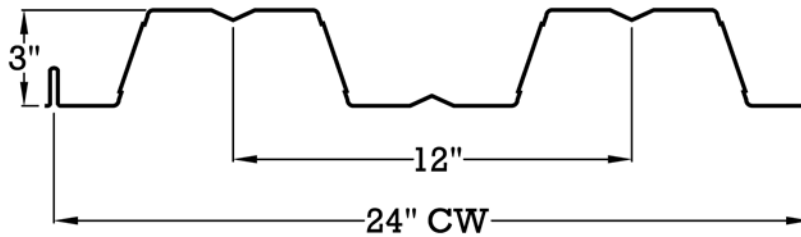


TYPE "3.0NCF" NON-COMPOSITE FORM DECK



SECTION PROPERTIES

FY=50 KSI

DECK TYPE	DESIGN THICKNESS	WT PSF	FINISH	I ^P IN. ⁴	I ^N IN. ⁴	S ^P IN. ³	S ^N IN. ³	M ^P /Ω IN.-LBS PER FT	M ^N /Ω IN.-LBS PER FT
22	.0295 IN.	1.86	GALV.	0.733	0.703	0.478	0.501	11754	12927
20	.0358 IN.	2.25	GALV	0.923	0.960	0.612	0.615	15585	16951
18	.0474 IN.	2.98	GALV.	1.286	1.296	0.823	0.817	23308	24793
16	.0598 IN.	3.66	GALV.	1.670	1676.	1.036	1.036	31584	31481

DECK-SPAN	DECK TYPE	DESIGN THICKNESS	DECK SUPPORT SPACING (FT. - IN.)								POUNDS PER SQUARE FOOT			
			6-0	7-0	8-0	9-0	10-0	11-0	12-0	13-0	14-0	15-0	16-6	
SIMPLE	22	STRESS DOWNWARD	218	160	122	97	78	65	54	46	40	35	31	
		DEFLECTION L/240	214	134	90	63	46	35	27	21	17	14	11	
	20	STRESS DOWNWARD	289	212	162	128	104	86	72	61	53	46	41	
		DEFLECTION L/240	272	171	115	81	59	44	34	27	21	17	14	
	18	STRESS DOWNWARD	432	317	243	192	155	128	108	92	79	69	61	
		DEFLECTION L/240	384	242	162	114	83	62	48	38	30	25	20	
	16	STRESS DOWNWARD	585	430	329	260	211	174	146	125	107	94	82	
		DEFLECTION L/240	500	315	211	148	108	81	63	49	39	32	26	

DOUBLE	22	STRESS DOWNWARD	239	176	135	106	86	71	60	51	44	38	34
		DEFLECTION L/240	514	324	217	152	111	83	64	51	40	33	27
	20	STRESS DOWNWARD	314	231	177	140	113	93	78	67	58	50	44
		DEFLECTION L/240	655	413	276	194	142	106	82	64	52	42	35
	18	STRESS DOWNWARD	459	337	258	204	165	137	115	98	84	73	65
		DEFLECTION L/240	925	583	390	274	200	150	116	91	73	59	49
	16	STRESS DOWNWARD	583	428	328	259	210	173	146	124	107	93	82
		DEFLECTION L/240	1204	758	508	357	260	195	150	118	95	77	63

TRIPLE	22	STRESS DOWNWARD	299	220	168	133	108	89	75	64	55	48	42
		DEFLECTION L/240	402	253	170	119	87	65	50	40	32	26	21
	20	STRESS DOWNWARD	392	288	221	174	141	117	98	84	72	63	55
		DEFLECTION L/240	513	323	216	152	111	83	64	50	40	33	27
	18	STRESS DOWNWARD	574	422	323	255	207	171	143	122	105	92	81
		DEFLECTION L/240	724	456	306	215	156	118	91	71	57	46	38
	16	STRESS DOWNWARD	729	535	410	324	262	217	182	155	134	117	102
		DEFLECTION L/240	942	593	397	279	204	153	118	93	74	60	50

LOAD TABLES AND SECTION PROPERTIES WERE GENERATED BY THE SDI. FOR LOADS THAT CAUSE L/120 DEFLECTION, MULTIPLY BY 2.0. FOR LOADS THAT CAUSE L/180 DEFLECTION, MULTIPLY BY 1.5. FOR LOADS THAT CAUSE L/360 DEFLECTION, MULTIPLY BY 0.667.

Standard Cover Width is 24".

TYPE "3.0NCF" NON-COMPOSITE FORM DECK

SLAB INFORMATION

Total Slab Depth, inches	W.W.F	Mp	Mn	Theo. Concrete Volume	
				yd ³ /100ft ²	ft ³ /ft ²
6	6x6- W2.9 x W2.9	5.98	10.2	1.39	0.375
6.5	6x6- W2.9 x W2.9	7.03	11.3	1.54	0.417
7	6x6- W2.9 x W2.9	8.07	12.3	1.70	0.458
7.5	4x4- W2.9 x W2.9	13.6	19.9	1.85	0.500
8	4x4- W2.9 x W2.9	15.2	21.5	2.02	0.546

Total Slab Depth	Deck	NW Concrete N=9 145 PCF			LW Concrete N=14 115 PCF		
		1 Span	2 Span	3 Span	1 Span	2 Span	3 Span
5 (t=2.00) 46 PSF/NW 37 PSF/LW	22	10-2	11-5	11-10	11-1	12-4	12-9
	20	12-1	13-1	13-6	13-0	14-1	14-7
	18	13-6	15-10	16-4	14-6	17-0	17-7
	16	14-8	17-10	18-5	15-10	19-2	19-10
5.5 (t=2.50) 52 PSF/NW 42 PSF/LW	22	9-9	10-11	11-4	10-7	11-9	12-2
	20	11-7	12-6	12-11	12-5	13-6	13-11
	18	12-11	15-2	15-8	13-11	16-4	16-11
	16	14-1	17-1	17-8	15-2	18-5	19-0
6 (t=3.00) 58 PSF/NW 47 PSF/LW	22	9-4	10-6	10-10	10-1	11-4	11-9
	20	11-5	13-1	13-7	12-5	14-6	14-11
	18	12-6	14-7	15-1	13-5	15-8	16-3
	16	13-7	16-5	16-11	14-7	17-8	18-4
6.5 (t=3.50) 64 PSF/NW 49PSF/LW	22	8-12	10-2	10-6	9-11	11-2	11-7
	20	10-7	11-7	12-0	11-10	12-10	13-3
	18	12-1	14-0	14-6	13-2	15-6	16-0
	16	13-2	15-10	16-4	14-5	17-5	18-0
7.0 (t=4.00) 70 PSF/NW 52 PSF/LW	22	8-8	9-9	10-1	9-9	10-11	11-4
	20	10-3	11-2	11-7	11-7	12-6	12-11
	18	11-9	13-7	14-0	12-11	15-2	15-8
	16	12-9	15-3	15-9	14-1	17-1	17-8
7.5 (t=4.50) 76PSF/NW 59 PSF/LW	22	8-4	9-6	9-10	9-3	10-5	10-10
	20	9-11	10-10	11-3	11-0	12-0	12-4
	18	11-5	13-1	13-7	12-5	14-6	14-11
	16	12-5	14-9	15-3	13-6	16-4	16-10

REINFORCED CONCRETE SLAB ALLOWABLE LOADS

Slab Depth	Reinforcement		Superimposed Uniform Load (PSF) – 3 Span Condition												
			Clear Span (ft-in.)												
	W.W.F	As	6-6	7-0	7-5	8-0	8-6	9-0	9-5	10-0	10-6	11-0	11-6	12-0	12-6
6 (t=3.00)	6x6- W2.9 x W2.9	0.058	111	96	83	73	65	58	52	47	43	39	35	33	30
	4x4- W2.9 x W2.9	0.087	166	143	124	109	97	86	77	70	63	58	53	49	45
	4x4- W4.0 x W4.0	0.120	225	194	169	149	132	118	105	95	86	79	72	66	61
6.5 (t=3.50)	6x6- W2.9 x W2.9	0.058	130	112	98	86	76	68	61	55	50	46	42	38	35
	4x4- W2.9 x W2.9	0.087	195	168	146	128	114	102	91	82	75	68	62	57	53
	4x4- W4.0 x W4.0	0.120	265	229	199	175	155	138	124	112	102	93	85	78	72
7 (t=4.00)	6x6- W2.9 x W2.9	0.058	150	129	113	99	88	78	70	63	57	52	48	44	41
	4x4- W2.9 x W2.9	0.087	224	193	168	148	131	117	105	95	86	78	71	66	60
	4x4- W4.0 x W4.0	0.120	305	263	229	202	179	159	143	129	117	107	98	90	83
7.5 (t=4.50)	4x4- W2.9 x W2.9	0.087	253	218	190	167	148	132	118	107	97	88	81	74	68
	4x4- W4.0 x W4.0	0.120	346	298	260	228	202	180	162	146	132	121	110	101	93
	4x4- W5.0 x W5.0	0.150	*	370	322	283	251	224	201	181	164	150	137	126	116
8 (t=5.00)	4x4- W2.9 x W2.9	0.087	282	243	212	186	165	147	132	119	108	98	90	83	76
	4x4- W4.0 x W4.0	0.120	386	333	290	255	226	201	181	163	148	135	123	113	104
	4x4- W5.0 x W5.0	0.150	*	*	360	316	280	250	224	202	183	167	153	140	129

WEB CRIPPLING AND SHEAR HAVE NOT BEEN ACCOUNTED FOR ON THESE TABLES. REQUIRED BEARING SHOULD BE DETERMINED BASED ON SPECIFIC SPAN CONDITIONS.

* INDICATES LIVE LOADS IN EXCESS OF 400 P.S.F