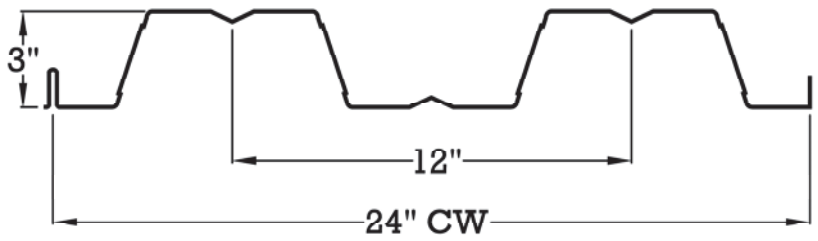
MARLYN STEEL DECKS, INC

TYPE “3.0NCF” 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^P IN.^{4}	I^N IN.^{4}	S^P IN.^{3}	S^N IN.^{3}
22	.0295 IN.	1.86	GALV.	.791	.764	.478	.501
20	.0358 IN.	2.25	GALV	.995	.960	.612	.615
18	.0474 IN.	2.98	GALV.	1.329	1.296	.823	.817
16	.0598 IN.	3.66	GALV.	1.676	1676.	1.036	1.036

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	237	202	174	152	133	118	105
		DEFLECTION	L/240	235	185	148	120	99	83	70
		DEFLECTION	L/180	313	246	197	160	132	110	93
	20	STRESS	36000	305	260	224	195	172	152	136
		DEFLECTION	L/240	296	233	187	152	125	104	88
		DEFLECTION	L/180	395	311	249	202	167	139	117
	18	STRESS	36000	457	390	336	293	257	228	203
		DEFLECTION	L/240	403	317	254	206	170	142	119
		DEFLECTION	L/180	537	422	338	275	226	189	159
	16	STRESS	36000	461	392	338	295	259	229	205
		DEFLECTION	L/240	509	400	320	260	215	179	151
		DEFLECTION	L/180	678	533	427	347	286	239	201
DOUBLE	22	STRESS	36000	249	212	183	160	140	124	111
		DEFLECTION	L/240	566	445	356	290	239	199	168
		DEFLECTION	L/180	755	593	475	386	318	265	224
	20	STRESS	36000	320	273	235	205	180	159	142
		DEFLECTION	L/240	714	561	449	365	301	251	211
		DEFLECTION	L/180	951	748	599	487	401	335	282
	18	STRESS	36000	457	390	336	293	257	228	203
		DEFLECTION	L/240	403	317	254	206	170	142	119
		DEFLECTION	L/180	537	422	338	275	226	189	159
	16	STRESS	36000	458	390	337	293	258	228	204
		DEFLECTION	L/240	1225	964	772	627	517	431	363
		DEFLECTION	L/180	1633	1285	1029	836	689	575	484
TRIPLE	22	STRESS	36000	312	266	229	200	175	155	139
		DEFLECTION	L/240	445	350	280	228	188	156	132
		DEFLECTION	L/180	593	466	373	304	250	209	176
	20	STRESS	36000	400	341	294	256	225	199	178
		DEFLECTION	L/240	561	441	353	287	237	197	166
		DEFLECTION	L/180	747	588	471	383	315	263	221
	18	STRESS	36000	572	487	420	366	321	285	254
		DEFLECTION	L/240	762	600	480	390	322	268	226
		DEFLECTION	L/180	1016	799	640	520	429	357	301
	16	STRESS	36000	573	488	421	367	322	285	255
		DEFLECTION	L/240	963	757	606	493	406	339	285
		DEFLECTION	L/180	1283	1009	808	657	541	451	380

LOAD TABLES AND SECTION PROPERTIES WERE GENERATED BY THE SDI.
Standard Cover Width is 24”.

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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

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
6 (t=3.00)	22	44.2	9-5	10-2	10-6	34.0	10-4	11-5	11-9
	20	44.6	10-10	12-1	12-6	34.3	11-7	13-5	13-10
	18	45.3	11-11	14-7	15-1	35.1	12-10	16-1	16-8
	16	46.0	12-10	14-8	15-1	35.8	13-9	16-2	16-8
6.5 (t=3.50)	22	50.2	9-0	9-9	10-0	38.5	9-11	10-11	11-3
	20	50.6	10-5	11-7	11-11	38.9	11-3	12-11	13-4
	18	51.3	11-6	14-0	14-5	39.6	12-5	15-6	16-0
	16	52.0	12-5	14-1	14-6	40.3	13-4	15-7	16-1
7 (t=4.00)	22	56.2	8-8	9-4	9-7	43.1	9-6	10-6	10-10
	20	56.6	10-0	11-2	11-6	43.5	10-11	12-5	12-10
	18	57.4	11-2	13-6	13-11	44.2	12-0	15-0	15-6
	16	58.0	12-1	13-7	14-0	44.9	12-11	15-0	15-6
7.5 (t=4.50)	22	62.3	8-4	9-0	9-3	47.7	9-2	10-2	10-6
	20	62.7	9-8	10-9	11-1	48.1	9-8	10-9	11-1
	18	63.4	10-10	13-0	13-5	48.8	11-8	14-6	15-0
	16	64.1	11-9	13-1	13-6	49.5	12-7	14-7	15-1
8 (t=5.00)	22	68.3	8-0	8-8	8-11	52.3	8-11	9-10	10-1
	20	68.7	9-4	10-4	10-8	52.7	10-3	11-8	12-0
	18	69.4	10-7	12-7	13-0	53.4	11-4	14-0	14-6
	16	70.1	11-9	13-1	13-6	54.1	12-3	14-2	14-7

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	400	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	400	400	360	316	280	250	224	202	183	167	153	140	129