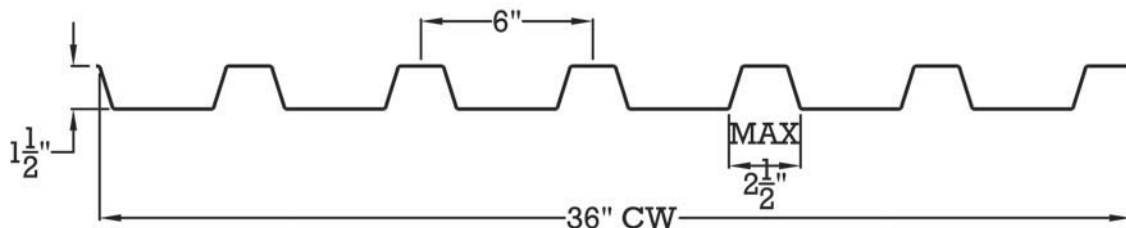


TYPE "IEF" INVERTED EXTRA DUTY FORM DECK



SECTION PROPERTIES $F_y=80$ KSI

DECK TYPE	DESIGN THICKNESS	WT PSF	FINISH	I^P IN. ⁴	I^N IN. ⁴	S^P IN. ³	S^N IN. ³
24	.0239 IN.	1.32	GALV.	.140	.109	.143	.134
22	.0295 IN.	1.61	GALV.	.181	.143	.188	.183
20	.0358 IN.	1.95	GALV.	.228	.185	.240	.230
18	.0474 IN.	2.52	GALV.	.241	.179	.268	.249

DECK-SPAN	DECK TYPE	DESIGN THICKNESS	DECK SUPPORT SPACING (FT.-IN.)							POUNDS PER SQUARE FOOT				
			4-0"	4-6"	5-0"	5-6"	6-0"	6-6"	7-0"	7-6"	8-0"	8-6"	9-0"	
SIMPLE	24	STRESS	36000	196	155	125	104	87	74	64	56	49	43	39
		DEFLECTION L/240	144	101	74	55	43	33	27	22	18	15	13	
		DEFLECTION L/180	192	135	98	74	57	45	36	29	24	20	17	
	22	STRESS	36000	258	204	165	137	115	98	84	73	65	57	51
		DEFLECTION L/240	185	130	95	71	55	43	35	28	23	19	16	
		DEFLECTION L/180	247	173	126	95	73	58	46	37	31	26	22	
	20	STRESS	36000	331	262	212	175	147	126	108	94	83	73	65
		DEFLECTION L/240	233	164	119	90	69	54	44	35	29	24	20	
		DEFLECTION L/180	310	218	159	120	92	72	58	47	39	32	27	
	18	STRESS	36000	536	424	343	284	238	203	175	152	134	119	106
		DEFLECTION L/240	247	173	126	95	73	58	46	37	31	26	22	
		DEFLECTION L/180	329	231	169	127	98	77	61	58	41	34	29	

DOUBLE	24	STRESS	36000	179	141	115	95	80	68	58	51	45	40	35
		DEFLECTION L/240	179	141	115	95	80	63	51	41	34	28	24	
		DEFLECTION L/180	179	141	115	95	80	68	58	51	45	38	32	
	22	STRESS	36000	242	191	155	128	108	92	79	69	61	54	48
		DEFLECTION L/240	242	191	155	128	104	82	65	53	44	37	31	
		DEFLECTION L/180	242	191	155	128	108	92	79	69	58	49	41	
	20	STRESS	36000	321	254	206	170	143	122	105	91	80	71	63
		DEFLECTION L/240	321	254	226	170	131	103	82	67	55	46	39	
		DEFLECTION L/180	321	254	206	170	143	122	105	89	74	61	52	
	18	STRESS	36000	536	424	343	284	238	203	175	152	134	119	106
		DEFLECTION L/240	536	418	305	229	176	139	111	90	74	62	52	
		DEFLECTION L/180	536	424	343	284	235	185	148	120	99	83	70	

TRIPLE	24	STRESS	36000	224	177	143	118	99	85	73	64	56	50	44
		DEFLECTION L/240	224	177	139	105	81	63	51	41	34	28	24	
		DEFLECTION L/180	224	177	143	118	99	85	68	55	45	38	32	
	22	STRESS	36000	303	239	194	160	135	115	99	86	76	67	60
		DEFLECTION L/240	303	239	179	135	104	82	65	53	44	37	31	
		DEFLECTION L/180	303	239	194	160	135	109	87	71	58	49	41	
	20	STRESS	36000	402	317	257	213	179	152	131	114	100	89	79
		DEFLECTION L/240	402	310	226	170	131	103	82	67	55	46	39	
		DEFLECTION L/180	402	317	257	213	174	137	110	89	74	61	52	
	18	STRESS	36000	670	529	429	354	298	254	219	191	168	148	132
		DEFLECTION L/240	466	327	239	179	138	109	87	71	58	49	41	
		DEFLECTION L/180	621	436	318	239	184	145	116	94	78	65	55	

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

TYPE "IEF" INVERTED EXTRA FORM DECK

SLAB INFORMATION

Total Slab Depth, inches	W.W.F	Mp	Mn	Theo. Concrete Volume	
				yd ³ /100ft ²	ft ³ /ft ²
3.5	6x6- W2.9 x W2.9	5.79	7.44	0.923	0.249
4	6x6- W2.9 x W2.9	7.35	9.01	1.08	0.291
4.5	6x6- W2.9 x W2.9	8.92	10.6	1.23	0.333
5	6x6- W4.0 x W4.0	14.3	16.4	1.39	0.374
5.5	6x6- W4.0 x W4.0	16.5	18.6	1.54	0.416
6	6x6- W4.0 x W4.0	18.6	20.7	1.70	0.458
6.5	6x6- W4.0 x W4.0	20.8	22.9	1.85	0.499

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
3.5 (t=2.00)	24	37.4	4-1	5-6	5-7	28.7	6-4	7-7	7-6
	22	37.7	5-6	7-2	7-5	29.0	7-7	9-1	9-1
	20	38.1	6-6	8-4	8-7	29.3	8-2	10-5	10-9
	18	38.7	8-1	9-6	9-10	30.0	8-9	10-4	10-8
4 (t=2.50)	24	43.5	3-11	5-3	5-4	33.3	6-1	7-2	7-1
	22	43.8	5-2	6-9	7-0	33.6	7-3	8-7	8-7
	20	44.1	6-2	7-11	8-2	34.0	7-9	9-11	10-3
	18	44.8	7-8	9-0	9-4	34.6	8-3	9-11	10-2
4.5 (t=3.00)	24	49.6	3-9	5-0	5-1	38.0	5-9	6-9	6-9
	22	49.9	4-11	6-6	6-8	38.2	6-11	8-2	8-1
	20	50.2	5-10	7-6	7-9	38.6	7-5	9-6	9-10
	18	50.8	7-3	8-7	8-11	39.2	7-11	9-5	9-9
5 (t=3.50)	24	55.6	3-7	4-10	4-11	42.5	5-5	6-6	6-5
	22	55.8	4-9	6-2	6-5	42.8	6-7	7-10	7-9
	20	56.2	5-7	7-2	7-5	43.1	7-2	9-2	9-6
	18	56.8	6-11	8-3	8-6	43.7	7-7	9-1	9-5
5.5 (t=4.00)	24	61.6	3-6	4-8	4-9	47.1	5-2	6-2	6-1
	22	61.9	4-6	5-11	6-2	47.4	6-4	7-6	7-5
	20	62.3	5-4	6-11	7-2	47.7	6-11	8-10	9-1
	18	62.9	6-8	7-11	8-2	48.3	7-3	8-9	9-1
6 (t=4.50)	24	67.7	3-5	4-6	4-7	51.7	4-11	5-11	5-10
	22	68.0	4-5	5-9	5-11	52.0	6-0	7-2	7-1
	20	68.4	5-3	6-8	6-11	52.3	6-9	8-6	8-9
	18	69.0	6-5	7-7	7-10	52.9	7-0	8-6	8-9
6.5 (t=5.00)	24	73.7	3-4	4-5	4-5	56.2	4-9	5-9	5-8
	22	74.0	4-4	5-6	5-9	56.5	5-9	6-11	6-10
	20	74.3	5-1	6-5	6-8	56.8	6-6	8-2	8-5
	18	74.9	6-3	7-4	7-7	57.5	6-9	8-2	8-6

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	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
3.5 (t=3.00)	6x6- W2.9 x W2.9	0.058	274	216	175	145	122	104	89	78	68	61	54	49	44
	6x6- W4.0 x W4.0	0.080	364	288	233	193	162	138	119	104	91	81	72	65	58
4 (t=3.50)	6x6- W2.9 x W2.9	0.058	331	262	212	175	147	125	108	94	83	73	65	59	53
	6x6- W4.0 x W4.0	0.080	400	351	284	235	197	168	145	126	111	98	88	79	71
	4x4- W2.9 x W2.9	0.087	400	387	313	259	217	185	160	139	122	108	97	87	78
4.5 (t=4.00)	6x6- W2.9 x W2.9	0.058	389	307	249	206	173	147	127	111	97	86	77	69	62
	6x6- W4.0 x W4.0	0.080	400	400	335	277	233	198	171	149	131	116	103	93	84
	4x4- W2.9 x W2.9	0.087	400	400	368	304	256	218	188	164	144	127	114	102	92
5 (t=4.50)	6x6- W4.0 x W4.0	0.058	400	400	386	319	268	228	197	171	151	133	119	107	96
	4x4- W2.9 x W2.9	0.080	400	400	400	350	294	251	216	188	166	147	131	117	106
	4x4- W4.0 x W4.0	0.120	400	400	400	400	395	337	291	253	222	197	176	158	142
5.5 (t=5.00)	6x6- W4.0 x W4.0	0.080	400	400	400	361	303	258	223	194	170	151	135	121	109
	4x4- W2.9 x W2.9	0.087	400	400	400	396	333	283	244	213	187	166	148	133	120
	4x4- W4.0 x W4.0	0.120	400	400	400	400	400	382	329	287	252	223	199	179	161
6 (t=5.50)	6x6- W4.0 x W4.0	0.080	400	400	400	400	338	288	249	217	190	169	150	135	122
	4x4- W2.9 x W2.9	0.087	400	400	400	400	371	316	273	237	209	185	165	148	134
	4x4- W4.0 x W4.0	0.120	400	400	400	400	400	400	368	321	282	250	223	200	180
6.5 (t=6.00)	6x6- W4.0 x W4.0	0.080	400	400	400	400	374	318	275	239	210	186	166	149	135
	4x4- W2.9 x W2.9	0.087	400	400	400	400	400	349	301	262	230	204	182	163	147
	4x4- W4.0 x W4.0	0.120	400	400	400	400	400	400	400	355	312	276	246	221	200