



# 2" Composite Floor Deck

## STEEL SECTION PROPERTIES

Fy= 40 KSI

Deck Type	Design Thick.	Weight PSF	Ip in <sup>4</sup> /ft	In in <sup>4</sup> /ft	Sp in <sup>3</sup> /ft	Sn in <sup>3</sup> /ft
2VLI22	0.0295	1.62	0.332	0.329	0.274	0.277
2VLI21	0.0329	1.81	0.378	0.375	0.317	0.321
2VLI20	0.0358	1.97	0.418	0.415	0.355	0.360
2VLI19	0.0418	2.30	0.493	0.492	0.435	0.443
2VLI18	0.0474	2.61	0.557	0.557	0.512	0.518
2VLI17	0.0538	2.96	0.633	0.633	0.589	0.589
2VLI16	0.0598	3.29	0.704	0.704	0.653	0.653

## (N=9) NORMAL WEIGHT CONCRETE (145 PCF)

Total Slab Depth	Deck Type	SDI Max. Unshored Clear Span			Superimposed Live Load, PSF														
		1 Span	2 Span	3 Span	Clear Span (ft.-in.)														
					5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"
4" (t=2")	2VLI22	6'-6"	8'-9"	8'-10"	274	239	211	164	145	129	115	104	94	85	78	71	65	59	54
	2VLI21	7'-2"	9'-5"	9'-8"	294	255	224	200	155	138	123	111	100	91	83	76	69	64	58
	2VLI20	7'-8"	9'-11"	10'-3"	310	269	236	210	188	146	130	117	106	96	87	80	73	67	62
	2VLI19	8'-8"	11'-0"	11'-4"	344	298	261	231	207	186	169	130	117	106	97	88	81	74	68
	2VLI18	9'-6"	11'-10"	12'-3"	373	324	285	253	228	206	188	172	159	122	112	103	95	87	81
39 PSF	2VLI17	10'-4"	12'-7"	13'-0"	400	351	308	273	245	221	201	184	170	157	120	111	102	94	87
	2VLI16	10'-11"	13'-2"	13'-5"	400	376	330	292	261	235	214	195	180	166	154	118	109	100	93
4 1/2" (t=2 1/2")	2VLI22	6'-2"	8'-4"	8'-5"	319	278	217	190	168	150	134	121	109	99	90	83	76	69	63
	2VLI21	6'-9"	8'-11"	9'-3"	341	297	261	204	180	160	144	129	117	106	97	88	81	74	68
	2VLI20	7'-3"	9'-5"	9'-9"	361	313	275	244	190	169	152	136	123	112	102	93	85	78	72
	2VLI19	8'-2"	10'-5"	10'-10"	400	346	303	268	240	216	168	151	136	124	113	103	94	86	79
45 PSF	2VLI18	9'-0"	11'-3"	11'-8"	400	376	331	295	264	239	218	200	156	142	130	119	110	102	94
	2VLI17	9'-9"	12'-0"	12'-5"	400	400	358	318	284	257	234	214	197	153	140	129	118	109	101
5" (t=3")	2VLI22	5'-11"	7'-9"	8'-0"	364	285	247	217	192	171	153	138	125	113	103	94	86	79	72
	2VLI21	6'-5"	8'-6"	8'-10"	389	338	266	233	206	183	164	147	133	121	110	101	92	84	78
	2VLI20	6'-11"	9'-0"	9'-4"	400	356	313	246	217	193	173	156	141	128	116	106	97	89	82
	2VLI19	7'-9"	10'-0"	10'-4"	400	394	345	306	273	214	192	172	156	141	128	117	107	99	91
	2VLI18	8'-7"	10'-9"	11'-2"	400	400	377	336	301	273	249	195	178	162	148	136	126	116	107
51 PSF	2VLI17	9'-3"	11'-6"	11'-10"	400	400	400	362	324	293	266	244	192	175	160	147	135	125	116
	2VLI16	9'-10"	12'-1"	12'-5"	400	400	400	386	346	312	283	259	238	187	171	157	144	133	123
5 1/2" (t=3 1/2")	2VLI22	5'-8"	7'-2"	7'-4"	400	320	278	244	216	192	172	155	140	127	116	106	97	89	81
	2VLI21	6'-2"	8'-2"	8'-5"	400	379	298	261	231	205	184	166	150	136	124	113	104	95	87
	2VLI20	6'-7"	8'-8"	8'-11"	400	400	351	276	244	217	194	175	158	143	131	119	109	100	92
	2VLI19	7'-5"	9'-7"	9'-11"	400	400	388	343	271	241	215	193	175	159	144	132	121	111	102
57 PSF	2VLI18	8'-2"	10'-4"	10'-8"	400	400	400	377	338	306	243	219	199	182	167	153	141	130	121
	2VLI17	8'-10"	11'-0"	11'-5"	400	400	400	400	364	329	299	237	215	196	180	165	152	140	130
6" (t=4")	2VLI22	5'-5"	6'-8"	6'-10"	400	355	308	270	239	213	191	172	156	141	129	118	108	99	90
	2VLI21	5'-11"	7'-11"	8'-1"	400	381	331	290	256	228	204	184	166	151	137	126	115	105	97
	2VLI20	6'-4"	8'-4"	8'-7"	400	400	350	306	271	241	215	194	175	159	145	132	121	111	102
	2VLI19	7'-2"	9'-3"	9'-7"	400	400	400	381	301	267	239	215	194	176	160	146	134	123	113
	2VLI18	7'-10"	10'-0"	10'-4"	400	400	400	400	375	299	269	243	221	202	185	170	157	145	134
63 PSF	2VLI17	8'-6"	10'-7"	11'-0"	400	400	400	400	400	364	331	263	239	218	199	183	169	156	144
	2VLI16	9'-0"	11'-2"	11'-6"	400	400	400	400	400	388	352	322	255	233	213	195	180	166	154
6 1/2" (t=4 1/2")	2VLI22	5'-1"	6'-2"	6'-4"	400	390	339	297	263	234	210	189	171	155	141	129	118	108	99
	2VLI21	5'-9"	7'-6"	7'-6"	400	400	363	318	281	250	224	202	183	166	151	138	126	116	106
	2VLI20	6'-1"	8'-1"	8'-4"	400	400	385	337	297	264	237	213	193	175	159	145	133	122	112
	2VLI19	6'-10"	8'-11"	9'-3"	400	400	400	375	330	293	262	236	213	193	176	161	147	135	124
69 PSF	2VLI18	7'-7"	9'-8"	9'-11"	400	400	400	400	400	329	296	268	243	222	203	187	172	159	147
	2VLI17	8'-2"	10'-3"	10'-7"	400	400	400	400	400	400	320	289	262	239	219	201	185	171	158
	2VLI16	8'-8"	10'-9"	11'-2"	400	400	400	400	400	400	387	309	280	256	234	215	198	183	169

Note 1. Minimum exterior bearing length required is 1.5 inches. Minimum interior bearing length required is 3.0 inches. If these minimum lengths are

## SLAB INFORMATION

Total Slab Depth	Theo. Concrete Volume		Recommended Welded Wire Fabric
	Yds./ 100 Sq. Ft.	Cu. Ft./ Sq. Ft.	
4"	0.94	0.253	6x6-W1.4xW1.4
4 1/2"	1.09	0.294	6x6-W1.4xW1.4
5"	1.24	0.336	6x6-W1.4xW1.4
5 1/4"	1.32	0.357	6x6-W1.4xW1.4
5 1/2"	1.40	0.378	6x6-W2.1xW2.1
6"	1.55	0.419	6x6-W2.1xW2.1
6 1/4"	1.63	0.440	6x6-W2.1xW2.1
6 1/2"	1.71	0.461	6x6-W2.1xW2.1