



1-1/2" Composite Floor Deck

STEEL SECTION PROPERTIES

Fy= 40 KSI

Deck Type	Design Thick.	Weight PSF	Ip in ⁴ /Ft	In in ⁴ /Ft	Sp in ³ /Ft	Sn in ³ /Ft
1.5VL22	0.0295	1.78	0.150	0.182	0.178	0.186
1.5VL21	0.0329	1.97	0.174	0.205	0.209	0.215
1.5VL20	0.0358	2.14	0.195	0.222	0.231	0.240
1.5VL19	0.0418	2.49	0.239	0.260	0.274	0.288
1.5VL18	0.0474	2.82	0.282	0.295	0.315	0.327
1.5VL17	0.0538	3.19	0.331	0.335	0.361	0.371
1.5VL16	0.0598	3.54	0.373	0.373	0.404	0.411

(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'-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	11'-6	12'-0
3 1/2"	1.5VL22	5'-2	6'-11	7'-0	314	259	230	206	186	169	154	141	130	120	111	100	87	76	67
	1.5VL21	5'-9	7'-8	7'-9	331	294	243	218	197	179	163	150	138	127	118	104	91	80	70
	1.5VL20	6'-2	8'-3	8'-4	345	306	275	228	206	187	171	157	144	133	124	108	94	82	73
	1.5VL19	6'-10	9'-2	9'-4	372	330	296	268	223	203	186	171	157	145	134	116	101	88	78
33 PSF	1.5VL18	7'-6	9'-11	10'-2	395	351	315	285	260	238	199	182	168	156	142	123	107	94	82
	1.5VL17	8'-2	10'-6	10'-10	397	353	316	286	261	239	221	183	169	157	145	131	114	99	87
	1.5VL16	8'-8	11'-0	11'-5	397	353	316	286	261	239	221	205	169	156	145	135	119	105	92
	1.5VL22	4'-11	6'-6	6'-7	342	301	267	240	216	196	179	164	151	139	129	119	111	103	96
(t=2")	1.5VL21	5'-5	7'-3	7'-4	385	318	283	253	229	208	190	174	160	148	137	127	118	110	102
	1.5VL20	5'-10	7'-9	7'-11	400	356	295	264	239	217	198	182	167	155	143	133	124	116	108
	1.5VL19	6'-6	8'-8	8'-10	400	383	344	311	259	235	215	197	182	168	156	145	135	126	115
	1.5VL18	7'-1	9'-5	9'-7	400	400	365	330	301	251	229	211	194	180	167	156	145	136	122
39 PSF	1.5VL17	7'-8	10'-0	10'-4	400	400	366	331	302	277	230	211	195	180	168	156	146	136	128
	1.5VL16	8'-2	10'-6	10'-10	400	400	365	330	301	276	255	211	194	180	167	155	145	136	127
	1.5VL22	4'-8	6'-3	6'-4	392	345	307	275	248	225	205	188	173	159	147	137	127	118	110
	1.5VL21	5'-2	6'-11	7'-0	400	364	324	290	262	238	217	199	183	169	157	145	135	126	117
(t=3")	1.5VL20	5'-6	7'-5	7'-6	400	400	338	303	274	249	227	208	192	177	164	152	142	132	123
	1.5VL19	6'-2	8'-3	8'-4	400	400	393	328	296	269	246	226	208	193	179	166	155	145	135
	1.5VL18	6'-8	8'-11	9'-2	400	400	400	378	315	287	262	241	222	206	191	178	166	155	145
	1.5VL17	7'-3	9'-6	9'-10	400	400	400	378	345	287	263	241	223	206	191	178	166	155	146
5"	1.5VL22	4'-6	6'-0	6'-1	400	391	347	311	280	254	232	213	195	180	167	155	143	133	124
	1.5VL21	4'-11	6'-8	6'-9	400	400	366	328	297	269	246	225	207	191	177	164	153	142	133
	1.5VL20	5'-3	7'-1	7'-2	400	400	382	343	310	281	257	236	217	200	186	172	160	150	140
	1.5VL19	5'-10	7'-11	8'-0	400	400	400	370	335	304	278	255	235	218	202	188	175	163	153
51 PSF	1.5VL18	6'-4	8'-7	8'-9	400	400	400	394	356	324	297	272	251	233	216	201	187	175	164
	1.5VL17	6'-11	9'-1	9'-5	400	400	400	400	357	325	297	273	251	233	216	201	188	176	164
	1.5VL16	7'-4	9'-7	9'-10	400	400	400	400	388	323	295	271	250	232	215	200	187	175	164
	1.5VL22	4'-4	5'-9	5'-10	400	400	388	348	314	285	260	238	219	202	187	173	160	149	139
(t=4")	1.5VL21	4'-9	6'-5	6'-6	400	400	400	367	332	301	275	252	232	214	198	184	171	159	148
	1.5VL20	5'-1	6'-10	6'-11	400	400	400	383	346	315	287	263	243	224	208	193	179	167	156
	1.5VL19	5'-7	7'-7	7'-8	400	400	400	400	374	340	311	286	263	243	226	210	196	183	171
	1.5VL18	6'-1	8'-3	8'-4	400	400	400	400	399	363	332	305	281	260	241	225	210	196	183
57 PSF	1.5VL17	6'-7	8'-9	9'-0	400	400	400	400	399	363	332	305	281	260	242	225	210	196	184
	1.5VL16	7'-1	9'-2	9'-6	400	400	400	400	400	361	330	303	279	259	240	224	209	195	183
	1.5VL22	4'-2	5'-7	5'-8	400	400	400	385	347	315	288	263	242	223	207	191	178	165	154
	1.5VL21	4'-7	6'-2	6'-3	400	400	400	400	367	334	304	279	257	237	220	204	189	176	164
(t=4 1/2")	1.5VL20	4'-10	6'-7	6'-8	400	400	400	400	383	348	318	292	269	248	230	214	199	185	173
	1.5VL19	5'-5	7'-4	7'-5	400	400	400	400	400	377	344	316	291	270	250	233	217	202	189
	1.5VL18	5'-10	7'-11	8'-1	400	400	400	400	400	400	367	337	311	288	267	249	232	217	203
	1.5VL17	6'-4	8'-5	8'-8	400	400	400	400	400	400	367	337	311	288	267	249	232	217	204
63 PSF	1.5VL16	6'-9	8'-10	9'-2	400	400	400	400	400	399	365	335	309	286	266	248	231	216	202

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.	
3 1/2 "	0.78	0.210	6x6-W1.4xW1.4
4"	0.93	0.252	6x6-W1.4xW1.4
4 1/2"	1.09	0.294	6x6-W1.4xW1.4
4 3/4"	1.16	0.314	6x6-W1.4xW1.4
5"	1.24	0.335	6x6-W2.1xW2.1
5 1/2"	1.40	0.377	6x6-W2.1xW2.1
5 3/4"	1.47	0.398	6x6-W2.1xW2.1
6"	1.55	0.418	6x6-W2.1xW2.1