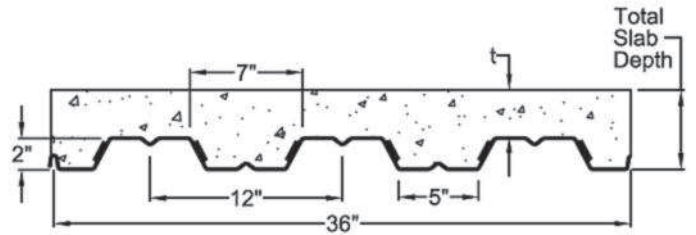


2 VLI

Maximum Sheet Length 42'-0"
 Extra Charge for Lengths Under 6'-0"
 ICBO Approved (No. 3415)



Interlocking side lap is not drawn to show actual detail.

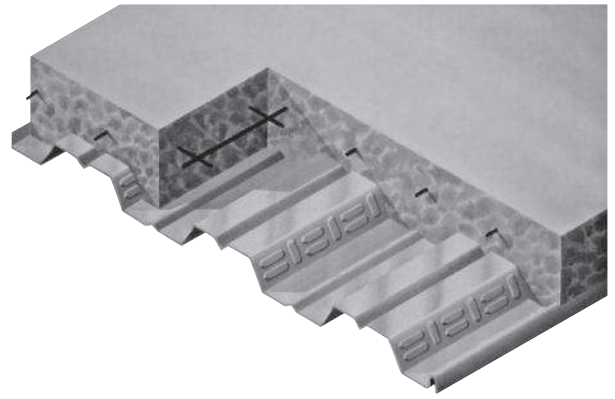
STEEL SECTION PROPERTIES

Deck Type	Design Thickness in	Deck Weight psf	Section Properties				V _a lbs/ft	F _y ksi
			I _p in ⁴ /ft	S _p in ³ /ft	I _n in ⁴ /ft	S _n in ³ /ft		
2VLI22	0.0295	1.62	0.324	0.263	0.321	0.266	1832	50
2VLI20	0.0358	1.97	0.409	0.341	0.406	0.346	2698	50
2VLI19	0.0418	2.30	0.492	0.420	0.489	0.426	3190	50
2VLI18	0.0474	2.61	0.559	0.495	0.558	0.504	3608	50
2VLI16	0.0598	3.29	0.704	0.653	0.704	0.653	3618	40

(N=9.35) NORMAL WEIGHT CONCRETE (145 PCF)

TOTAL SLAB DEPTH	DECK TYPE	SDI Max. Unshored Clear Span			Superimposed Live Load, PSF															
					Clear Span (ft.-in.)															
		1 SPAN	2 SPAN	3 SPAN	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"	
4.00 (t=2.00) 39 PSF	2VLI22	7'-4"	9'-6"	9'-9"	274	239	211	188	145	129	115	104	94	85	78	71	65	59	54	
	2VLI20	8'-7"	10'-10"	11'-2"	310	269	236	210	188	170	155	117	106	96	87	80	73	67	61	
	2VLI19	9'-9"	11'-11"	12'-4"	344	298	261	231	207	186	169	155	142	106	97	88	81	74	68	
	2VLI18	10'-9"	12'-9"	12'-9"	373	324	285	253	228	206	188	172	159	147	137	103	95	87	81	
	2VLI16	11'-1"	13'-2"	13'-5"	400	376	330	292	261	235	214	195	180	166	154	143	109	100	93	
4.50 (t=2.50) 45 PSF	2VLI22	6'-11"	9'-0"	9'-4"	319	278	245	190	168	150	134	121	109	99	90	83	76	69	63	
	2VLI20	8'-2"	10'-3"	10'-7"	361	313	275	244	219	198	152	136	123	112	102	93	85	78	72	
	2VLI19	9'-2"	11'-5"	11'-9"	400	346	303	268	240	216	196	180	136	124	113	103	94	86	79	
	2VLI18	10'-2"	12'-4"	12'-4"	400	376	331	295	264	239	218	200	184	171	130	119	110	102	94	
	2VLI16	10'-5"	12'-6"	12'-11"	400	400	383	339	303	274	248	227	209	193	150	137	126	117	108	
5.00 (t=3.00) 51 PSF	2VLI22	6'-7"	8'-7"	8'-11"	364	317	279	217	192	171	153	138	125	113	103	94	86	79	72	
	2VLI20	7'-9"	9'-10"	10'-2"	400	356	313	278	249	193	173	156	141	128	116	106	97	89	82	
	2VLI19	8'-9"	10'-11"	11'-3"	400	394	345	306	273	247	224	172	156	141	128	117	107	99	91	
	2VLI18	9'-7"	11'-10"	11'-11"	400	400	377	336	301	273	249	228	210	162	148	136	126	116	107	
	2VLI16	9'-11"	12'-0"	12'-4"	400	400	400	386	346	312	283	259	238	187	171	157	144	133	123	
5.50 (t=3.50) 57 PSF	2VLI22	6'-4"	8'-0"	8'-6"	400	355	278	244	216	192	172	155	140	127	116	106	97	89	81	
	2VLI20	7'-5"	9'-5"	9'-9"	400	400	351	312	244	217	194	175	158	143	131	119	109	100	92	
	2VLI19	8'-4"	10'-5"	10'-9"	400	400	388	343	307	277	215	193	175	159	144	132	121	111	102	
	2VLI18	9'-2"	11'-4"	11'-7"	400	400	400	377	338	306	279	256	199	182	167	153	141	130	121	
	2VLI16	9'-5"	11'-6"	11'-10"	400	400	400	400	388	350	318	290	230	210	192	176	162	150	138	
6.00 (t=4.00) 63 PSF	2VLI22	6'-1"	7'-5"	8'-2"	400	394	308	270	239	213	191	172	156	141	129	118	108	99	90	
	2VLI20	7'-1"	9'-1"	9'-4"	400	400	390	346	271	241	215	194	175	159	145	132	121	111	102	
	2VLI19	8'-0"	10'-1"	10'-5"	400	400	400	381	340	307	239	215	194	176	160	146	134	123	113	
	2VLI18	8'-10"	10'-11"	11'-3"	400	400	400	400	375	339	309	243	221	202	185	170	157	145	134	
	2VLI16	9'-1"	11'-1"	11'-5"	400	400	400	400	400	388	352	322	255	233	213	195	180	166	154	
6.50 (t=4.50) 69 PSF	2VLI22	5'-11"	6'-11"	7'-11"	400	390	339	297	263	234	210	189	171	155	141	129	118	108	99	
	2VLI20	6'-11"	8'-9"	9'-0"	400	400	400	337	297	264	237	213	193	175	159	145	133	122	112	
	2VLI19	7'-10"	9'-8"	10'-0"	400	400	400	400	374	293	262	236	213	193	176	161	147	135	124	
	2VLI18	8'-7"	10'-6"	10'-11"	400	400	400	400	400	373	340	268	243	222	203	187	172	159	147	
	2VLI16	8'-10"	10'-8"	11'-0"	400	400	400	400	400	400	387	309	280	256	234	215	198	183	169	

- Notes:
- Minimum exterior bearing length required is 2.00 inches. Minimum interior bearing length required is 4.00 inches. If these minimum lengths are not provided, web crippling must be checked.
 - Always contact Vulcraft when using loads in excess of 200 psf. Such loads often result from concentrated, dynamic, or long term load cases for which reductions due to bond breakage, concrete creep, etc. should be evaluated.
 - All fire rated assemblies are subject to an upper live load limit of 250 psf.



SLAB INFORMATION

Total Slab Depth, in.	Theo. Concrete Volume		Recommended Welded Wire Fabric
	Yd ³ / 100 ft ²	ft ³ / ft ²	
4	0.93	0.250	6x6 - W1.4xW1.4
4 1/2	1.08	0.292	6x6 - W1.4xW1.4
5	1.23	0.333	6x6 - W1.4xW1.4
5 1/4	1.31	0.354	6x6 - W1.4xW1.4
5 1/2	1.39	0.375	6x6 - W2.1xW2.1
6	1.54	0.417	6x6 - W2.1xW2.1
6 1/4	1.62	0.438	6x6 - W2.1xW2.1
6 1/2	1.70	0.458	6x6 - W2.1xW2.1

(N=14.15) LIGHTWEIGHT CONCRETE (110 PCF)

TOTAL SLAB DEPTH	DECK TYPE	SDI Max. Unshored Clear Span			Superimposed Live Load, PSF														
					Clear Span (ft.-in.)														
		1 SPAN	2 SPAN	3 SPAN	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"	13'-0"
4.00 (t=2.00) 30 PSF	2VLI22	8'-1"	10'-3"	10'-7"	238	209	186	167	152	120	108	98	90	82	75	69	64	59	55
	2VLI20	9'-6"	11'-8"	12'-1"	268	235	209	187	169	153	140	129	101	92	84	78	72	66	61
	2VLI19	10'-10"	13'-0"	13'-2"	297	260	230	206	185	168	153	141	130	121	93	86	79	73	68
	2VLI18	11'-7"	13'-7"	13'-7"	324	285	253	227	205	187	171	158	146	136	127	119	92	86	80
	2VLI16	12'-3"	14'-3"	14'-4"	377	330	292	261	235	214	195	179	165	153	143	133	118	98	91
4.50 (t=2.50) 35 PSF	2VLI22	7'-8"	9'-10"	10'-2"	276	243	216	194	155	139	126	114	104	96	88	81	75	69	64
	2VLI20	9'-0"	11'-3"	11'-7"	312	273	243	217	196	178	163	128	117	107	98	90	83	77	72
	2VLI19	10'-3"	12'-5"	12'-9"	346	302	268	239	215	195	178	164	151	118	108	100	92	85	79
	2VLI18	11'-2"	13'-1"	13'-1"	376	331	294	264	238	217	199	183	170	158	147	116	107	100	93
	2VLI16	11'-7"	13'-8"	13'-10"	400	384	340	303	273	248	227	208	192	178	166	155	123	114	106
5.00 (t=3.00) 39 PSF	2VLI22	7'-4"	9'-5"	9'-9"	315	277	247	197	176	159	143	130	119	109	100	92	85	79	73
	2VLI20	8'-7"	10'-9"	11'-2"	355	312	276	248	224	203	161	146	133	122	112	103	95	88	82
	2VLI19	9'-9"	11'-11"	12'-4"	394	345	305	272	245	223	203	187	147	135	124	114	105	97	90
	2VLI18	10'-9"	12'-9"	12'-9"	400	377	335	300	272	247	227	209	193	180	143	132	122	114	106
	2VLI16	11'-0"	13'-1"	13'-5"	400	400	387	346	311	283	258	237	219	203	189	151	140	130	121
5.25 (t=3.25) 42 PSF	2VLI22	7'-2"	9'-3"	9'-7"	334	294	262	209	187	168	152	138	126	116	106	98	90	84	78
	2VLI20	8'-5"	10'-7"	10'-11"	377	331	293	263	237	190	171	155	142	130	119	110	101	94	87
	2VLI19	9'-6"	11'-8"	12'-1"	400	366	324	289	260	236	216	198	156	143	131	121	111	103	95
	2VLI18	10'-6"	12'-7"	12'-7"	400	400	355	319	288	263	241	222	205	191	151	140	130	121	113
	2VLI16	10'-9"	12'-10"	13'-3"	400	400	400	367	330	300	274	252	232	215	173	160	148	138	128
5.50 (t=3.50) 44 PSF	2VLI22	7'-0"	9'-1"	9'-5"	353	311	277	222	198	178	161	147	134	122	113	104	96	89	82
	2VLI20	8'-3"	10'-4"	10'-9"	399	350	310	278	251	201	181	165	150	137	126	116	107	99	92
	2VLI19	9'-4"	11'-6"	11'-10"	400	387	342	306	275	250	228	182	165	151	139	128	118	109	101
	2VLI18	10'-3"	12'-5"	12'-5"	400	400	376	337	305	278	254	234	217	174	160	148	138	128	119
	2VLI16	10'-6"	12'-7"	13'-0"	400	400	400	388	350	317	290	266	246	228	184	170	157	146	136
6.25 (t=4.25) 51 PSF	2VLI22	6'-8"	8'-7"	8'-11"	400	362	291	258	231	208	188	171	156	143	131	121	112	103	96
	2VLI20	7'-9"	9'-10"	10'-2"	400	400	361	323	260	234	211	192	175	160	147	135	125	115	107
	2VLI19	8'-9"	10'-11"	11'-3"	400	400	398	356	320	291	233	212	193	176	162	149	137	127	118
	2VLI18	9'-8"	11'-10"	11'-11"	400	400	400	392	355	323	296	273	220	202	187	173	160	149	139
	2VLI16	9'-11"	12'-0"	12'-5"	400	400	400	400	400	369	337	310	253	232	214	198	183	170	158

- Notes:
1. Minimum exterior bearing length required is 2.00 inches. Minimum interior bearing length required is 4.00 inches. If these minimum lengths are not provided, web crippling must be checked.
 2. Always contact Vulcraft when using loads in excess of 200 psf. Such loads often result from concentrated, dynamic, or long term load cases for which reductions due to bond breakage, concrete creep, etc. should be evaluated.
 3. All fire rated assemblies are subject to an upper live load limit of 250 psf.