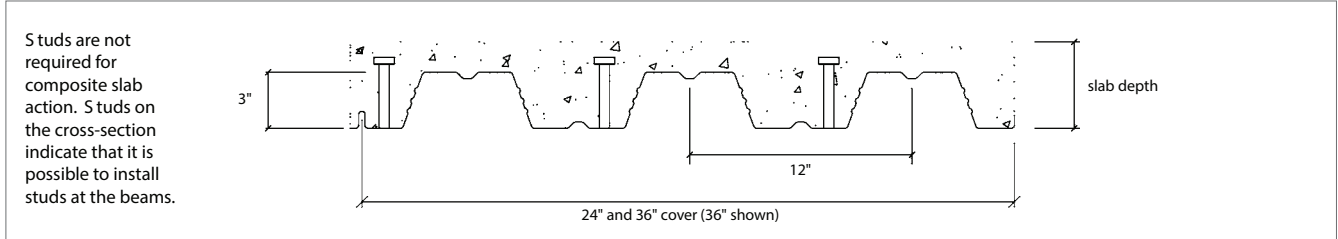


3" LOK-FLOOR

3" x 12" deck $F_y = 40$ ksi $f'_c = 3$ ksi 145 pcf concrete



DECK PROPERTIES										
Gage	t	w	A_s	I_p	S_p	S_n	R_{be}	R_{bi}	V_n	studs
22	0.0295	1.7	0.500	0.765	0.416	0.441	720	1270	2200	0.49
20	0.0358	2.1	0.610	0.953	0.548	0.577	820	1450	3420	0.60
19	0.0418	2.4	0.710	1.112	0.680	0.692	1100	1930	4660	0.70
18	0.0474	2.8	0.810	1.261	0.793	0.790	1380	2430	5900	0.79
16	0.0598	3.5	1.020	1.593	0.998	0.998	2120	3710	7420	0.79

COMPOSITE PROPERTIES													
	S lab Depth	M_{nr} in.k	A_c in ²	Vol. ft ³ /ft ²	W psf	S_c in ³	I_{av} in ⁴	M_{no} in.k	V_{nt} lbs.	Max Unshored S span, ft.			A_{wvf} in ² /ft
										1 span	2 span	3 span	
22 gage	5.50	62.44	37.6	0.333	48	1.31	10.1	44.61	5700	7.84	9.46	9.86	0.023
	6.00	70.94	42.0	0.375	54	1.50	12.9	51.25	6110	7.47	8.68	9.04	0.027
	6.50	79.44	46.6	0.417	60	1.71	16.3	58.14	6540	6.95	8.02	8.35	0.032
	7.00	87.94	51.3	0.458	66	1.92	20.2	65.23	6980	6.52	7.45	7.76	0.036
	7.50	96.44	56.3	0.500	73	2.13	24.7	72.47	7440	6.14	6.96	7.25	0.041
	8.00	104.94	61.3	0.542	79	2.35	29.8	79.84	7910	5.81	6.53	6.80	0.045
20 gage	8.25	109.19	63.9	0.563	82	2.46	32.6	83.57	8150	5.65	6.33	6.59	0.047
	8.50	113.44	66.6	0.583	85	2.57	35.6	87.32	8400	5.50	6.14	6.40	0.050
	5.50	74.69	37.6	0.333	48	1.57	10.8	53.50	6920	9.20	10.76	11.21	0.023
	6.00	85.06	42.0	0.375	54	1.81	13.8	61.49	7330	8.76	9.87	10.28	0.027
	6.50	95.43	46.6	0.417	60	2.05	17.3	69.79	7760	8.29	9.12	9.50	0.032
	7.00	105.80	51.3	0.458	66	2.30	21.5	78.33	8200	7.78	8.48	8.83	0.036
19 gage	7.50	116.17	56.3	0.500	73	2.56	26.2	87.08	8660	7.33	7.92	8.25	0.041
	8.00	126.54	61.3	0.542	79	2.82	31.6	96.00	9130	6.93	7.43	7.74	0.045
	8.25	131.73	63.9	0.563	82	2.95	34.6	100.50	9370	6.74	7.21	7.51	0.047
	8.50	136.91	66.6	0.583	85	3.09	37.7	105.04	9620	6.57	7.00	7.29	0.050
	5.50	85.36	37.6	0.333	48	1.80	11.3	61.44	7000	10.40	12.62	13.04	0.023
	6.00	97.43	42.0	0.375	54	2.07	14.5	70.61	7820	9.90	12.08	12.48	0.027
18 gage	6.50	109.50	46.6	0.417	60	2.35	18.2	80.17	8680	9.47	11.61	11.99	0.032
	7.00	121.57	51.3	0.458	66	2.64	22.5	90.02	9440	9.22	11.18	11.55	0.036
	7.50	133.64	56.3	0.500	73	2.94	27.5	100.12	9900	8.98	10.51	10.95	0.041
	8.00	145.71	61.3	0.542	79	3.24	33.1	110.41	10370	8.76	9.86	10.27	0.045
	8.25	151.74	63.9	0.563	82	3.40	36.2	115.62	10610	8.66	9.57	9.97	0.047
	8.50	157.78	66.6	0.583	85	3.55	39.5	120.87	10860	8.56	9.29	9.68	0.050
16 gage	5.50	95.58	37.6	0.333	48	2.02	11.9	69.22	7000	11.34	13.49	13.94	0.023
	6.00	109.35	42.0	0.375	54	2.33	15.2	79.55	7820	10.78	12.92	13.35	0.027
	6.50	123.12	46.6	0.417	60	2.65	19.1	90.34	8680	10.32	12.42	12.83	0.032
	7.00	136.89	51.3	0.458	66	2.97	23.6	101.48	9560	10.04	11.97	12.37	0.036
	7.50	150.66	56.3	0.500	73	3.31	28.7	112.91	10480	9.77	11.56	11.95	0.041
	8.00	164.43	61.3	0.542	79	3.66	34.6	124.57	11420	9.53	11.19	11.57	0.045
16 gage	8.25	171.32	63.9	0.563	82	3.83	37.8	130.48	11850	9.42	11.02	11.39	0.047
	8.50	178.20	66.6	0.583	85	4.00	41.2	136.43	12100	9.31	10.86	11.22	0.050
	5.50	95.58	37.6	0.333	48	2.48	13.0	69.22	7000	12.86	15.12	15.46	0.023
	6.00	109.35	42.0	0.375	54	2.86	16.6	79.55	7820	12.23	14.49	14.97	0.027
	6.50	123.12	46.6	0.417	60	3.25	20.8	90.34	8680	11.70	13.93	14.40	0.032
	7.00	136.89	51.3	0.458	66	3.66	25.6	101.48	9560	11.37	13.43	13.88	0.036
16 gage	7.50	150.66	56.3	0.500	73	4.08	31.2	112.91	10480	11.08	12.98	13.41	0.041
	8.00	164.43	61.3	0.542	79	4.50	37.5	124.57	11420	10.80	12.57	12.99	0.045
	8.25	171.32	63.9	0.563	82	4.72	41.0	130.48	11910	10.67	12.38	12.79	0.047
	8.50	178.20	66.6	0.583	85	4.94	44.7	136.43	12400	10.55	12.19	12.60	0.050

3" LOK-FLOOR - NW

3" LOK-FLOOR

3" x 12" deck $F_y = 40$ ksi $f'_c = 3$ ksi 145 pcf concrete

	Slab Depth	M_n in.k	Span " L" feet, Uniform Live Unfactored Service Loads, psf												
			9.00	9.50	10.00	10.50	11.00	11.50	12.00	12.50	13.00	13.50	14.00	14.50	15.00
22 gage	5.50	62.44	285	250	225	200	180	160	145	130	115	105	95	85	80
	6.00	70.94	325	285	255	225	200	180	165	145	135	120	110	100	90
	6.50	79.44	360	320	285	255	225	205	185	165	150	135	120	110	100
	7.00	87.94	400	355	315	280	250	225	205	185	165	150	135	125	110
	7.50	96.44	400	390	345	310	275	250	225	200	180	165	150	135	125
	8.00	104.94	400	400	375	335	300	270	245	220	200	180	165	150	135
	8.25	109.19	400	400	395	350	315	280	255	230	205	185	170	155	140
	8.50	113.44	400	400	400	365	325	295	265	240	215	195	175	160	145
20 gage	5.50	74.69	345	305	275	245	220	200	180	160	145	135	120	110	100
	6.00	85.06	395	350	310	280	250	225	205	185	165	150	140	125	115
	6.50	95.43	400	395	350	315	280	255	230	210	190	170	155	140	130
	7.00	105.80	400	400	390	350	315	280	255	230	210	190	175	160	145
	7.50	116.17	400	400	400	385	345	310	280	255	230	210	190	175	160
	8.00	126.54	400	400	400	400	375	340	305	275	250	230	210	190	175
	8.25	131.73	400	400	400	400	390	350	320	290	260	240	215	200	180
	8.50	136.91	400	400	400	400	400	365	330	300	275	250	225	205	190
19 gage	5.50	85.36	400	355	320	285	255	230	210	190	170	155	145	130	120
	6.00	97.43	400	400	365	325	295	265	240	215	200	180	165	150	140
	6.50	109.50	400	400	400	365	330	300	270	245	225	205	185	170	155
	7.00	121.57	400	400	400	400	365	330	300	275	250	225	205	190	175
	7.50	133.64	400	400	400	400	400	365	330	300	275	250	230	210	190
	8.00	145.71	400	400	400	400	400	400	360	330	300	270	250	230	210
	8.25	151.74	400	400	400	400	400	400	375	340	310	285	260	240	220
	8.50	157.78	400	400	400	400	400	400	390	355	325	295	270	245	225
18 gage	5.50	95.58	400	400	360	325	290	265	240	215	195	180	165	150	140
	6.00	109.35	400	400	400	370	335	300	275	250	225	205	190	175	160
	6.50	123.12	400	400	400	400	375	340	310	280	255	235	215	195	180
	7.00	136.89	400	400	400	400	400	380	345	315	285	260	240	220	200
	7.50	150.66	400	400	400	400	400	400	380	345	315	290	265	240	225
	8.00	164.43	400	400	400	400	400	400	400	380	345	315	290	265	245
	8.25	171.32	400	400	400	400	400	400	400	395	360	330	300	275	255
	8.50	178.20	400	400	400	400	400	400	400	400	375	340	315	290	265
16 gage	5.50	95.58	400	400	360	325	290	265	240	215	195	180	165	150	140
	6.00	109.35	400	400	400	370	335	300	275	250	225	205	190	175	160
	6.50	123.12	400	400	400	400	375	340	310	280	255	235	215	195	180
	7.00	136.89	400	400	400	400	400	380	345	315	285	260	240	220	200
	7.50	150.66	400	400	400	400	400	400	380	345	315	290	265	240	225
	8.00	164.43	400	400	400	400	400	400	400	380	345	315	290	265	245
	8.25	171.32	400	400	400	400	400	400	400	395	360	330	300	275	255
	8.50	178.20	400	400	400	400	400	400	400	400	375	340	315	290	265
22 gage	5.50	44.61	190	170	150	130	115	105	90	80	70	65	55	50	45
	6.00	51.25	220	195	170	150	135	120	105	95	85	75	65	60	55
	6.50	58.14	250	220	195	175	155	135	120	110	95	85	75	70	60
	7.00	65.23	285	250	220	195	175	155	140	125	110	100	90	80	70
	7.50	72.47	315	280	245	220	195	175	155	140	125	110	100	90	80
	8.00	79.84	350	310	270	240	215	190	170	155	135	120	110	100	90
	8.25	83.57	365	325	285	255	225	200	180	160	145	130	115	105	90
	8.50	87.32	385	340	300	265	235	210	190	170	150	135	120	110	95
20 gage	5.50	53.50	235	210	185	165	145	130	115	105	95	85	75	70	60
	6.00	61.49	275	240	215	190	170	150	135	120	110	100	90	80	70
	6.50	69.79	310	275	245	215	195	175	155	140	125	115	100	90	80
	7.00	78.33	350	310	275	245	220	195	175	155	140	130	115	105	95
	7.50	87.08	390	345	305	275	245	220	195	175	160	145	130	115	105
	8.00	96.00	400	385	340	300	270	240	215	195	175	160	145	130	115
	8.25	100.50	400	400	355	315	285	255	230	205	185	165	150	135	125
	8.50	105.04	400	400	375	330	295	265	240	215	195	175	160	145	130
19 gage	5.50	61.44	280	245	220	195	175	155	140	125	115	100	95	85	75
	6.00	70.61	320	285	250	225	200	180	160	145	130	120	110	95	90
	6.50	80.17	365	325	285	255	230	205	185	165	150	135	125	110	100
	7.00	90.02	400	365	325	290	260	230	210	190	170	155	140	125	115
	7.50	100.12	400	400	360	320	290	260	235	210	190	175	155	140	130
	8.00	110.41	400	400	400	355	320	285	260	235	210	190	175	160	145
	8.25	115.62	400	400	400	375	335	300	270	245	220	200	185	165	150
	8.50	120.87	400	400	400	390	350	315	285	255	235	210	190	175	160
18 gage	5.50	69.22	320	280	250	225	200	180	160	145	130	120	110	100	90
	6.00	79.55	365	325	290	260	230	210	185	170	155	140	125	115	105
	6.50	90.34	400	370	330	295	265	235	215	195	175	160	145	130	120
	7.00	101.48	400	400	370	330	300	270	240	220	200	180	165	150	135
	7.50	112.91	400	400	400	370	330	300	270	245	220	200	185	165	155
	8.00	124.57	400	400	400	400	370	330	300	270	245	225	205	185	170
	8.25	130.48	400	400	400	400	385	350	315	285	260	235	215	195	180
	8.50	136.43	400	400	400	400	400	365	330	300	270	245	225	205	185
16 gage	5.50	69.22	320	280	250	225	200	180	160	145	130	120	110	100	90
	6.00	79.55	365	325	290	260	230	210	185	170	155	140	125	115	105
	6.50	90.34	400	370	330	295	265	235	215	195	175	160	145	130	120
	7.00	101.48	400	400	370	330	300	270	240	220	200	180	165	150	135
	7.50	112.91	400	400	400	370	330	300	270	245	220	200	185	165	155
	8.00	124.57	400	400	400	400	370	330	300	270	245	225	205	185	170
	8.25	130.48	400	400	400	400	385	350	315	285	260	235	215	195	180
	8.50	136.43	400	400	400	400	400	365	330	300	270	245	225	205	185

Studs at 1 foot o.c.

No Studs