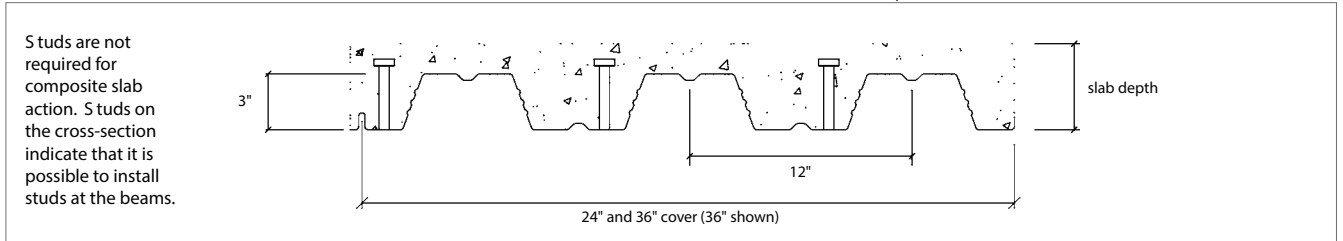


3" LOK-FLOOR

3" x 12" deck $F_y = 40$ ksi $f'_c = 3$ ksi 115 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	0.59
20	0.0358	2.1	0.610	0.953	0.548	0.577	820	1450	3420	0.71
19	0.0418	2.4	0.710	1.112	0.680	0.692	1100	1930	4660	0.83
18	0.0474	2.8	0.810	1.261	0.793	0.790	1380	2430	5900	0.94
16	0.0598	3.5	1.020	1.593	0.998	0.998	2120	3710	7420	0.94

COMPOSITE PROPERTIES													
	Slab 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	38	1.25	7.5	42.68	4820	8.59	10.83	11.19	0.023
	6.00	70.94	42.0	0.375	43	1.44	9.6	49.11	5130	8.20	10.26	10.69	0.027
	6.25	75.19	44.3	0.396	46	1.54	10.8	52.43	5290	8.03	9.88	10.29	0.029
	6.50	79.44	46.6	0.417	48	1.64	12.1	55.80	5450	7.86	9.52	9.92	0.032
	7.00	87.94	51.3	0.458	53	1.84	14.9	62.72	5780	7.57	8.88	9.25	0.036
	7.25	92.19	53.8	0.479	55	1.94	16.5	66.24	5960	7.43	8.60	8.95	0.038
20 gage	7.50	96.44	56.3	0.500	58	2.05	18.2	69.80	6130	7.28	8.33	8.67	0.041
	8.00	104.94	61.3	0.542	62	2.26	21.9	77.02	6480	6.81	7.83	8.16	0.045
	5.50	74.69	37.6	0.333	38	1.50	8.1	51.02	5250	10.10	12.48	12.89	0.023
	6.00	85.06	42.0	0.375	43	1.72	10.4	58.71	5870	9.63	11.66	12.15	0.027
	6.25	90.25	44.3	0.396	46	1.84	11.6	62.69	6180	9.42	11.23	11.69	0.029
	6.50	95.43	46.6	0.417	48	1.96	13.0	66.74	6510	9.23	10.83	11.28	0.032
19 gage	7.00	105.80	51.3	0.458	53	2.20	16.0	75.06	7000	8.87	10.10	10.52	0.036
	7.25	110.99	53.8	0.479	55	2.33	17.7	79.30	7180	8.71	9.78	10.18	0.038
	7.50	116.17	56.3	0.500	58	2.46	19.5	83.59	7350	8.56	9.47	9.86	0.041
	8.00	126.54	61.3	0.542	62	2.71	23.5	92.31	7700	8.12	8.91	9.28	0.045
	5.50	85.36	37.6	0.333	38	1.71	8.6	58.43	5250	11.44	13.69	14.15	0.023
	6.00	97.43	42.0	0.375	43	1.97	11.0	67.24	5870	10.90	13.14	13.58	0.027
18 gage	6.25	103.46	44.3	0.396	46	2.11	12.3	71.80	6180	10.66	12.89	13.33	0.029
	6.50	109.50	46.6	0.417	48	2.24	13.8	76.46	6510	10.44	12.66	13.08	0.032
	7.00	121.57	51.3	0.458	53	2.52	17.0	86.01	7170	10.03	12.22	12.63	0.036
	7.25	127.60	53.8	0.479	55	2.67	18.8	90.90	7510	9.84	12.02	12.42	0.038
	7.50	133.64	56.3	0.500	58	2.81	20.7	95.84	7860	9.67	11.83	12.22	0.041
	8.00	145.71	61.3	0.542	62	3.11	24.9	105.89	8570	9.39	11.47	11.85	0.045
16 gage	5.50	95.58	37.6	0.333	38	1.92	9.1	65.67	5250	12.48	14.62	15.11	0.023
	6.00	109.35	42.0	0.375	43	2.21	11.6	75.56	5870	11.89	14.05	14.52	0.027
	6.25	116.24	44.3	0.396	46	2.36	13.0	80.70	6180	11.62	13.78	14.24	0.029
	6.50	123.12	46.6	0.417	48	2.52	14.5	85.94	6510	11.38	13.53	13.99	0.032
	7.00	136.89	51.3	0.458	53	2.83	17.9	96.72	7170	10.93	13.07	13.51	0.036
	7.25	143.78	53.8	0.479	55	3.00	19.7	102.24	7510	10.72	12.86	13.29	0.038
16 gage	7.50	150.66	56.3	0.500	58	3.16	21.7	107.82	7860	10.53	12.65	13.08	0.041
	8.00	164.43	61.3	0.542	62	3.50	26.1	119.18	8570	10.23	12.27	12.68	0.045
	5.50	95.58	37.6	0.333	38	2.34	10.0	65.67	5250	13.92	16.38	16.31	0.023
	6.00	109.35	42.0	0.375	43	2.70	12.7	75.56	5870	13.50	15.74	15.87	0.027
	6.25	116.24	44.3	0.396	46	2.88	14.3	80.70	6180	13.19	15.44	15.67	0.029
	6.50	123.12	46.6	0.417	48	3.08	15.9	85.94	6510	12.91	15.17	15.49	0.032
16 gage	7.00	136.89	51.3	0.458	53	3.47	19.6	96.72	7170	12.40	14.66	15.15	0.036
	7.25	143.78	53.8	0.479	55	3.67	21.7	102.24	7510	12.16	14.42	14.90	0.038
	7.50	150.66	56.3	0.500	58	3.87	23.8	107.82	7860	11.94	14.19	14.67	0.041
	8.00	164.43	61.3	0.542	62	4.29	28.6	119.18	8570	11.60	13.77	14.23	0.045

3" LOK-FLOOR - LW

3" LOK-FLOOR

3" x 12" deck $F_y = 40$ ksi $f'_c = 3$ ksi 115 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	290	260	230	205	185	165	150	135	125	115	105	95	85
	6.00	70.94	330	295	260	235	210	190	170	155	140	130	115	105	100
	6.25	75.19	350	310	280	250	225	200	180	165	150	135	125	115	105
	6.50	79.44	370	330	295	265	235	215	195	175	160	145	130	120	110
	7.00	87.94	400	365	325	290	260	235	215	195	175	160	145	135	120
	7.25	92.19	400	385	340	305	275	250	225	205	185	170	155	140	130
	7.50	96.44	400	400	355	320	290	260	235	215	195	175	160	145	135
	8.00	104.94	400	400	390	350	315	285	255	230	210	190	175	160	145
20 gage	5.50	74.69	355	315	280	250	225	205	185	170	155	140	130	115	105
	6.00	85.06	400	360	320	290	260	235	210	195	175	160	145	135	125
	6.25	90.25	400	380	340	305	275	250	225	205	185	170	155	145	130
	6.50	95.43	400	400	360	325	290	265	240	215	200	180	165	150	140
	7.00	105.80	400	400	400	360	325	290	265	240	220	200	185	170	155
	7.25	110.99	400	400	400	375	340	305	280	255	230	210	195	175	165
	7.50	116.17	400	400	400	395	355	320	290	265	240	220	200	185	170
	8.00	126.54	400	400	400	400	385	350	320	290	265	240	220	205	185
19 gage	5.50	85.36	400	365	325	290	265	240	215	195	170	155	140	125	110
	6.00	97.43	400	400	370	335	300	275	250	225	205	190	175	160	145
	6.25	103.46	400	400	395	355	320	290	265	240	220	200	185	170	155
	6.50	109.50	400	400	400	375	340	305	280	255	230	215	195	180	165
	7.00	121.57	400	400	400	400	375	340	310	285	260	235	215	200	185
	7.25	127.60	400	400	400	400	395	360	325	295	270	250	230	210	195
	7.50	133.64	400	400	400	400	400	375	340	310	285	260	240	220	205
	8.00	145.71	400	400	400	400	400	400	375	340	310	285	260	240	220
18 gage	5.50	95.58	400	400	365	330	300	260	230	205	180	160	145	130	120
	6.00	109.35	400	400	400	380	340	310	280	255	230	205	185	165	150
	6.25	116.24	400	400	400	400	365	330	300	275	250	230	210	185	170
	6.50	123.12	400	400	400	400	385	350	320	290	265	245	225	205	190
	7.00	136.89	400	400	400	400	400	390	355	325	295	270	250	230	210
	7.25	143.78	400	400	400	400	400	400	375	340	310	285	260	240	225
	7.50	150.66	400	400	400	400	400	400	390	355	325	300	275	255	235
	8.00	164.43	400	400	400	400	400	400	400	390	355	325	300	275	255
16 gage	5.50	95.58	400	400	365	330	300	260	230	205	180	160	145	130	120
	6.00	109.35	400	400	400	380	340	310	280	255	230	205	185	165	150
	6.25	116.24	400	400	400	400	365	330	300	275	250	230	210	185	170
	6.50	123.12	400	400	400	400	385	350	320	290	265	245	225	205	190
	7.00	136.89	400	400	400	400	400	390	355	325	295	270	250	230	210
	7.25	143.78	400	400	400	400	400	400	375	340	310	285	260	240	225
	7.50	150.66	400	400	400	400	400	400	390	355	325	300	275	255	235
	8.00	164.43	400	400	400	400	400	400	400	390	355	325	300	275	255
22 gage	5.50	42.68	190	165	150	130	115	105	95	85	75	70	60	55	50
	6.00	49.11	220	195	170	150	135	120	110	95	85	80	70	65	55
	6.25	52.43	235	205	185	165	145	130	115	105	95	85	75	70	60
	6.50	55.80	250	220	195	175	155	140	125	110	100	90	80	75	65
	7.00	62.72	280	250	220	195	175	155	140	125	115	105	95	85	75
	7.25	66.24	300	265	235	210	185	165	150	135	120	110	100	90	80
	7.50	69.80	315	280	245	220	195	175	160	140	130	115	105	95	85
	8.00	77.02	350	310	275	245	215	195	175	155	140	130	115	105	95
20 gage	5.50	51.02	230	205	180	165	145	130	115	105	95	85	80	70	65
	6.00	58.71	270	235	210	190	170	150	135	125	110	100	90	80	75
	6.25	62.69	285	255	225	200	180	160	145	130	120	110	100	90	80
	6.50	66.74	305	270	240	215	190	175	155	140	125	115	105	95	85
	7.00	75.06	345	305	270	245	215	195	175	160	145	130	120	110	100
	7.25	79.30	365	325	290	255	230	205	185	170	155	140	125	115	105
	7.50	83.59	385	340	305	270	245	220	195	180	160	145	135	120	110
	8.00	92.31	400	380	335	300	270	245	220	200	180	165	150	135	125
19 gage	5.50	58.43	270	240	215	190	170	155	140	125	115	105	95	85	80
	6.00	67.24	310	275	245	220	195	180	160	145	130	120	110	100	90
	6.25	71.80	335	295	265	235	210	190	170	155	140	130	115	105	95
	6.50	76.46	355	315	280	250	225	205	185	165	150	135	125	115	105
	7.00	86.01	400	355	315	285	255	230	210	190	170	155	140	130	120
	7.25	90.90	400	375	335	300	270	245	220	200	180	165	150	135	125
	7.50	95.84	400	400	355	315	285	255	230	210	190	175	160	145	135
	8.00	105.89	400	400	395	350	315	285	260	235	215	195	175	160	150
18 gage	5.50	65.67	305	270	245	215	195	175	160	145	130	120	110	100	90
	6.00	75.56	355	315	280	250	225	205	185	165	150	140	125	115	105
	6.25	80.70	380	335	300	270	240	220	195	180	165	150	135	125	115
	6.50	85.94	400	360	320	285	260	235	210	190	175	160	145	130	120
	7.00	96.72	400	400	360	325	290	265	240	215	195	180	165	150	140
	7.25	102.24	400	400	385	345	310	280	250	230	210	190	175	160	145
	7.50	107.82	400	400	400	360	325	295	265	240	220	200	185	170	155
	8.00	119.18	400	400	400	400	360	325	295	270	245	225	205	185	170
16 gage	5.50	65.67	305	270	245	215	195	175	160	145	130	120	110	100	90
	6.00	75.56	355	315	280	250	225	205	185	165	150	140	125	115	105
	6.25	80.70	380	335	300	270	240	220	195	180	165	150	135	125	115
	6.50	85.94	400	360	320	285	260	235	210	190	175	160	145	130	120
	7.00	96.72	400	400	360	325	290	265	240	215	195	180	165	150	140
	7.25	102.24	400	400	385	345	310	280	250	230	210	190	175	160	145
	7.50	107.82	400	400	400	360	325	295	265	240	220	200	185	170	155
	8.00	119.18	400	400	400	400	360	325	295	270	245	225	205	185	170

Studs at 1 foot o.c.

No S studs