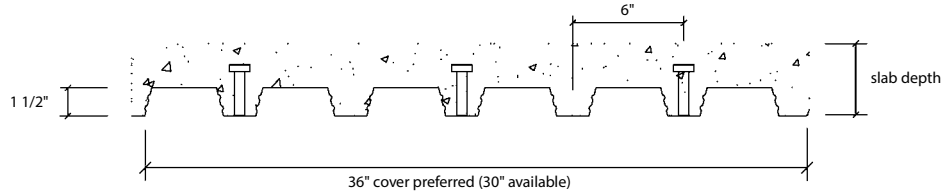


B- LOK

1.5" x 6" deck $F_y = 40 \text{ ksi}$ $f'_c = 3 \text{ ksi}$ 115 pcf concrete

S studs are not required for composite slab action. S studs on the cross-section indicate that it is possible to install studs at the beams.



DECK PROPERTIES										
Gage	t	w	A_s	I_p	S_p	S_n	R_{be}	R_{bi}	V_n	studs
22	0.0295	1.6	0.470	0.158	0.189	0.191	1290	1690	2830	0.62
20	0.0358	1.9	0.570	0.205	0.233	0.241	1830	2440	3420	0.75
19	0.0418	2.3	0.670	0.251	0.276	0.283	2420	3270	3980	0.88
18	0.0474	2.6	0.760	0.294	0.317	0.322	3040	4140	4500	1.00
16	0.0598	3.3	0.960	0.380	0.406	0.408	4620	6390	5620	1.00

COMPOSITE PROPERTIES													
Gage	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 Span, ft.			A_{wwf} in ² /ft
										1 span	2 span	3 span	
22 gage	4.00	45.43	21.3	0.255	29	0.91	3.1	30.99	2980	5.73	7.63	7.72	0.023
	4.50	53.42	24.8	0.297	34	1.11	4.3	37.63	3460	5.46	7.28	7.37	0.027
	4.75	57.41	26.5	0.318	37	1.21	5.1	41.04	3700	5.33	7.13	7.22	0.029
	5.00	61.41	28.3	0.339	39	1.31	5.9	44.48	3960	5.22	6.98	7.07	0.032
	5.50	69.40	32.1	0.380	44	1.51	7.8	51.47	4480	5.01	6.72	6.80	0.036
	5.75	73.39	34.0	0.401	46	1.62	8.9	55.01	4750	4.92	6.60	6.68	0.038
	6.00	77.39	36.0	0.422	49	1.72	10.1	58.58	5030	4.83	6.49	6.57	0.041
20 gage	6.50	85.38	40.1	0.464	53	1.93	12.8	65.77	5600	4.67	6.28	6.36	0.045
	4.00	53.83	21.3	0.255	29	1.08	3.3	36.80	2980	6.57	8.77	8.88	0.023
	4.50	63.52	24.8	0.297	34	1.32	4.7	44.73	3460	6.24	8.36	8.46	0.027
	4.75	68.36	26.5	0.318	37	1.44	5.5	48.80	3700	6.09	8.17	8.27	0.029
	5.00	73.21	28.3	0.339	39	1.56	6.4	52.92	3960	5.96	8.00	8.09	0.032
	5.50	82.90	32.1	0.380	44	1.80	8.5	61.30	4480	5.71	7.69	7.78	0.036
	5.75	87.74	34.0	0.401	46	1.93	9.7	65.55	4750	5.60	7.55	7.64	0.038
19 gage	6.00	92.59	36.0	0.422	49	2.05	11.0	69.83	5030	5.50	7.41	7.50	0.041
	6.50	102.28	40.1	0.464	53	2.31	13.8	78.47	5600	5.31	7.17	7.25	0.045
	4.00	61.78	21.3	0.255	29	1.25	3.6	42.39	2980	7.32	9.57	9.90	0.023
	4.50	73.17	24.8	0.297	34	1.52	5.1	51.58	3460	6.94	9.13	9.42	0.027
	4.75	78.87	26.5	0.318	37	1.66	5.9	56.30	3700	6.77	8.93	9.21	0.029
	5.00	84.56	28.3	0.339	39	1.80	6.9	61.09	3960	6.62	8.74	9.01	0.032
	5.50	95.95	32.1	0.380	44	2.08	9.1	70.84	4480	6.34	8.40	8.65	0.036
18 gage	5.75	101.65	34.0	0.401	46	2.23	10.4	75.79	4750	6.22	8.24	8.48	0.038
	6.00	107.34	36.0	0.422	49	2.38	11.7	80.77	5030	6.10	8.10	8.33	0.041
	6.50	118.73	40.1	0.464	53	2.67	14.8	90.85	5600	5.88	7.82	8.05	0.045
	4.00	68.56	21.3	0.255	29	1.39	3.8	47.32	2980	7.98	10.19	10.53	0.023
	4.50	81.48	24.8	0.297	34	1.69	5.4	57.61	3460	7.56	9.72	10.05	0.027
	4.75	87.94	26.5	0.318	37	1.85	6.3	62.91	3700	7.37	9.51	9.83	0.029
	5.00	94.40	28.3	0.339	39	2.01	7.3	68.29	3960	7.20	9.31	9.62	0.032
16 gage	5.50	107.32	32.1	0.380	44	2.33	9.6	79.26	4480	6.89	8.95	9.25	0.036
	5.75	113.78	34.0	0.401	46	2.49	10.9	84.82	4750	6.76	8.78	9.08	0.038
	6.00	120.24	36.0	0.422	49	2.66	12.4	90.44	5030	6.63	8.62	8.91	0.041
	6.50	133.16	40.1	0.464	53	2.99	15.6	101.78	5600	6.39	8.33	8.61	0.045
	4.00	68.56	21.3	0.255	29	1.70	4.2	47.32	2980	9.27	11.42	11.80	0.023
	4.50	81.48	24.8	0.297	34	2.07	6.0	57.61	3460	8.77	10.90	11.27	0.027
	4.75	87.94	26.5	0.318	37	2.26	7.0	62.91	3700	8.55	10.66	11.02	0.029
16 gage	5.00	94.40	28.3	0.339	39	2.46	8.1	68.29	3960	8.35	10.44	10.79	0.032
	5.50	107.32	32.1	0.380	44	2.86	10.7	79.26	4480	7.98	10.04	10.38	0.036
	5.75	113.78	34.0	0.401	46	3.06	12.1	84.82	4750	7.82	9.85	10.19	0.038
	6.00	120.24	36.0	0.422	49	3.27	13.7	90.44	5030	7.66	9.68	10.01	0.041
	6.50	133.16	40.1	0.464	53	3.68	17.2	101.78	5600	7.38	9.36	9.67	0.045

B-LOK - LW

B- LOK

1.5" x 6" 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														
			5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00		
22 gage	4.00	45.43	400	400	400	400	400	365	315	260	220	185	155	135	115	100	
	4.50	53.42	400	400	400	400	400	400	370	320	280	250	220	190	165	145	
	4.75	57.41	400	400	400	400	400	400	395	345	305	265	235	210	190	165	
	5.00	61.41	400	400	400	400	400	400	400	370	325	285	255	225	200	180	
	5.50	69.40	400	400	400	400	400	400	400	400	365	325	285	255	230	205	
	5.75	73.39	400	400	400	400	400	400	400	400	385	340	305	270	240	215	
	6.00	77.39	400	400	400	400	400	400	400	400	400	360	320	285	255	230	
20 gage	4.00	53.83	400	400	400	400	400	400	345	285	240	200	170	145	125	110	
	4.50	63.52	400	400	400	400	400	400	400	385	335	285	240	205	180	155	
	4.75	68.36	400	400	400	400	400	400	400	400	365	325	280	240	210	180	
	5.00	73.21	400	400	400	400	400	400	400	400	390	345	305	275	245	210	
	5.50	82.90	400	400	400	400	400	400	400	400	400	390	350	310	280	250	
	5.75	87.74	400	400	400	400	400	400	400	400	400	400	370	330	295	265	
	6.00	92.59	400	400	400	400	400	400	400	400	400	400	390	350	310	280	
19 gage	4.00	102.28	400	400	400	400	400	400	400	400	400	400	400	385	345	310	
	4.00	61.78	400	400	400	400	400	400	375	305	255	215	185	155	135	120	
	4.50	73.17	400	400	400	400	400	400	400	400	360	305	260	220	190	165	
	4.75	78.87	400	400	400	400	400	400	400	400	400	355	305	260	225	195	
	5.00	84.56	400	400	400	400	400	400	400	400	400	400	350	300	260	225	
	5.50	95.95	400	400	400	400	400	400	400	400	400	400	400	400	365	330	295
	5.75	101.65	400	400	400	400	400	400	400	400	400	400	400	400	385	350	315
18 gage	6.00	107.34	400	400	400	400	400	400	400	400	400	400	400	400	400	370	330
	6.50	118.73	400	400	400	400	400	400	400	400	400	400	400	400	400	400	365
	4.00	68.56	400	400	400	400	400	400	395	325	270	230	195	165	145	125	
	4.50	81.48	400	400	400	400	400	400	400	400	385	325	275	235	205	175	
	4.75	87.94	400	400	400	400	400	400	400	400	400	380	320	275	240	205	
	5.00	94.40	400	400	400	400	400	400	400	400	400	400	375	320	275	240	
	5.50	107.32	400	400	400	400	400	400	400	400	400	400	400	400	400	365	315
16 gage	5.75	113.78	400	400	400	400	400	400	400	400	400	400	400	400	400	395	355
	6.00	120.24	400	400	400	400	400	400	400	400	400	400	400	400	400	400	375
	6.50	133.16	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	4.00	68.56	400	400	400	400	400	400	400	395	325	270	230	195	165	145	125
	4.50	81.48	400	400	400	400	400	400	400	400	385	325	275	235	205	175	
	4.75	87.94	400	400	400	400	400	400	400	400	400	380	320	275	240	205	
	5.00	94.40	400	400	400	400	400	400	400	400	400	400	375	320	275	240	
22 gage	5.50	107.32	400	400	400	400	400	400	400	400	400	400	400	400	400	365	315
	5.75	113.78	400	400	400	400	400	400	400	400	400	400	400	400	400	395	355
	6.00	120.24	400	400	400	400	400	400	400	400	400	400	400	400	400	400	375
	6.50	133.16	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	4.00	30.99	400	400	335	280	240	205	180	155	135	120	105	95	85		
	4.50	37.63	400	400	400	345	295	250	220	190	165	145	130	115	105		
	4.75	41.04	400	400	400	375	320	275	240	210	180	160	140	125	115		
20 gage	5.00	44.48	400	400	400	400	350	300	260	225	200	175	155	140	125		
	5.50	51.47	400	400	400	400	400	345	300	265	230	205	180	160	145		
	5.75	55.01	400	400	400	400	400	370	320	280	245	220	195	170	155		
	6.00	58.58	400	400	400	400	400	395	345	300	265	235	205	185	165		
	6.50	65.77	400	400	400	400	400	400	385	340	295	260	235	205	185		
	4.00	36.80	400	400	400	340	290	250	215	190	165	145	130	115	105		
	4.50	44.73	400	400	400	400	355	305	265	230	205	180	160	140	125		
19 gage	4.75	48.80	400	400	400	400	385	335	290	255	220	195	175	155	140		
	5.00	52.92	400	400	400	400	400	360	315	275	240	215	190	170	150		
	5.50	61.30	400	400	400	400	400	400	365	320	280	250	220	195	175		
	5.75	65.55	400	400	400	400	400	400	390	340	300	265	235	210	190		
	6.00	69.83	400	400	400	400	400	400	400	365	320	285	255	225	205		
	6.50	78.47	400	400	400	400	400	400	400	400	360	320	285	255	230		
	4.00	42.39	400	400	400	395	335	290	250	220	195	170	155	135	120		
18 gage	4.50	51.58	400	400	400	400	400	355	310	270	240	210	190	170	150		
	4.75	56.30	400	400	400	400	400	390	335	295	260	230	205	185	165		
	5.00	61.09	400	400	400	400	400	400	365	320	285	250	225	200	180		
	5.50	70.84	400	400	400	400	400	400	400	375	330	295	260	235	210		
	5.75	75.79	400	400	400	400	400	400	400	400	355	315	280	250	225		
	6.00	80.77	400	400	400	400	400	400	400	400	375	335	300	265	240		
	6.50	90.85	400	400	400	400	400	400	400	400	400	380	335	300	270		
16 gage	4.00	47.32	400	400	400	400	380	325	285	250	220	195	165	145	125		
	4.50	57.61	400	400	400	400	400	400	350	305	270	240	215	190	170		
	4.75	62.91	400	400	400	400	400	400	380	335	295	260	235	210	185		
	5.00	68.29	400	400	400	400	400	400	400	365	320	285	255	225	205		
	5.50	79.26	400	400	400	400	400	400	400	400	375	330	295	265	240		
	5.75	84.82	400	400	400	400	400	400	400	400	400	355	315	285	255		
	6.00	90.44	400	400	400	400	400	400	400	400	400	380	340	305	275		
16 gage	6.50	101.78	400	400	400	400	400	400	400	400	400	400	380	345	310		
	4.00	47.32	400	400	400	400	380	325	285	250	220	195	165	145	125		
	4.50	57.61	400	400	400	400	400	400	350	305	270	240	215	190	170		
	4.75	62.91	400	400	400	400	400	400	380	335	295	260	235	210	185		
	5.00	68.29	400	400	400	400	400	400	400	365	320	285	255	225	205		
	5.50	79.26	400	400	400	400	400	400	400	400	375	330	295	265	240		
	5.75	84.82	400	400	400	400	400	400	400	400	400	355	315	285	255		
16 gage	6.00	90.44	400	400	400	400	400	400	400	400	400	380	340	305	275		
	6.50	101.78	400	400	400	400	400	400	400	400	400	400	380	345	310		

Studs at 1 foot o.c.

No Studs