

B-LOK

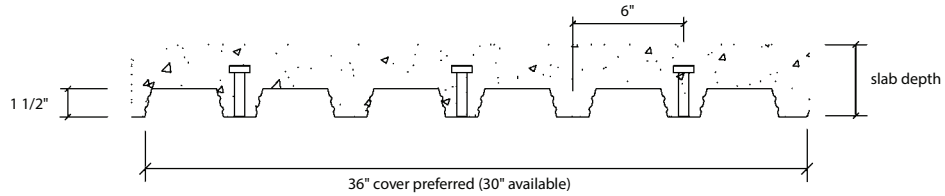
1.5" x 6" deck

$F_y = 40$ ksi

$f'_c = 3$ ksi

145 pcf concrete

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



FLOOR DECK

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	0.52
20	0.0358	1.9	0.570	0.205	0.233	0.241	1830	2440	3420	0.63
19	0.0418	2.3	0.670	0.251	0.276	0.283	2420	3270	3980	0.74
18	0.0474	2.6	0.760	0.294	0.317	0.322	3040	4140	4500	0.84
16	0.0598	3.3	0.960	0.380	0.406	0.408	4620	6390	5620	0.84

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 Span, ft.			A_{wvf} in ² /ft
										1 span	2 span	3 span	
22 gage	4.00	45.43	21.3	0.255	37	0.96	4.0	32.66	3970	5.31	7.10	7.19	0.023
	4.50	53.42	24.8	0.297	43	1.16	5.7	39.48	4610	5.04	6.76	6.84	0.027
	5.00	61.41	28.3	0.339	49	1.37	7.8	46.48	5280	4.81	6.47	6.54	0.032
	5.50	69.40	32.1	0.380	55	1.58	10.4	53.61	5820	4.61	6.21	6.28	0.036
	6.00	77.39	36.0	0.422	61	1.79	13.4	60.83	6180	4.45	5.99	6.06	0.041
	6.50	85.38	40.1	0.464	67	2.00	17.0	68.14	6560	4.34	5.79	5.85	0.045
	7.00	93.37	44.3	0.505	73	2.22	21.3	75.50	6960	4.24	5.61	5.67	0.050
20 gage	4.00	53.83	21.3	0.255	37	1.15	4.3	38.95	3970	6.07	8.14	8.23	0.023
	4.50	63.52	24.8	0.297	43	1.39	6.1	47.11	4610	5.75	7.73	7.82	0.027
	5.00	73.21	28.3	0.339	49	1.63	8.4	55.50	5280	5.48	7.38	7.47	0.032
	5.50	82.90	32.1	0.380	55	1.88	11.1	64.06	5970	5.24	7.08	7.17	0.036
	6.00	92.59	36.0	0.422	61	2.14	14.4	72.76	6700	5.05	6.82	6.90	0.041
	6.50	102.28	40.1	0.464	67	2.40	18.2	81.54	7150	4.93	6.58	6.66	0.045
	7.00	111.97	44.3	0.505	73	2.66	22.7	90.41	7550	4.81	6.37	6.45	0.050
19 gage	4.00	61.78	21.3	0.255	37	1.32	4.6	45.03	3970	6.74	8.89	9.16	0.023
	4.50	73.17	24.8	0.297	43	1.60	6.5	54.51	4610	6.38	8.45	8.69	0.027
	5.00	84.56	28.3	0.339	49	1.89	8.9	64.28	5280	6.07	8.06	8.29	0.032
	5.50	95.95	32.1	0.380	55	2.18	11.8	74.27	5970	5.81	7.72	7.95	0.036
	6.00	107.34	36.0	0.422	61	2.48	15.3	84.41	6700	5.59	7.42	7.65	0.041
	6.50	118.73	40.1	0.464	67	2.78	19.3	94.67	7460	5.45	7.16	7.38	0.045
	7.00	130.12	44.3	0.505	73	3.09	24.0	105.03	8110	5.32	6.92	7.14	0.050
18 gage	4.00	68.56	21.3	0.255	37	1.48	4.9	50.41	3970	7.34	9.47	9.79	0.023
	4.50	81.48	24.8	0.297	43	1.80	6.9	61.06	4610	6.94	9.00	9.30	0.027
	5.00	94.40	28.3	0.339	49	2.12	9.4	72.06	5280	6.60	8.59	8.88	0.032
	5.50	107.32	32.1	0.380	55	2.45	12.4	83.30	5970	6.30	8.23	8.51	0.036
	6.00	120.24	36.0	0.422	61	2.79	16.0	94.73	6700	6.07	7.91	8.18	0.041
	6.50	133.16	40.1	0.464	67	3.13	20.3	106.30	7460	5.91	7.63	7.88	0.045
	7.00	146.08	44.3	0.505	73	3.47	25.1	117.99	8260	5.77	7.37	7.62	0.050
16 gage	4.00	68.56	21.3	0.255	37	1.82	5.4	50.41	3970	8.51	10.62	10.98	0.023
	4.50	81.48	24.8	0.297	43	2.21	7.6	61.06	4610	8.03	10.09	10.43	0.027
	5.00	94.40	28.3	0.339	49	2.61	10.4	72.06	5280	7.63	9.64	9.96	0.032
	5.50	107.32	32.1	0.380	55	3.02	13.7	83.30	5970	7.28	9.24	9.55	0.036
	6.00	120.24	36.0	0.422	61	3.44	17.6	94.73	6700	7.00	8.89	9.19	0.041
	6.50	133.16	40.1	0.464	67	3.87	22.2	106.30	7460	6.82	8.57	8.86	0.045
	7.00	146.08	44.3	0.505	73	4.30	27.5	117.99	8260	6.65	8.29	8.56	0.050

B - LOK - N W

