

OPTIONAL - SL (SIDING LAP)

S-300-K STEEL COMPOSITE FLOOR METRIC

STEEL DECK SECTION PROPERTIES (Per metre of width)

Base Steel Thickness (mm)	Weight (ZF75)		Section Modulus (x10 ³ mm ³)		Deflection Inertia (x10 ⁶ mm ⁴)
	(kg/ mm ²)	(mm ²)	Midspan	Support	
0.762	8.76	1080	23.9	24.0	1.03
0.914	10.5	1297	30.5	30.7	1.28
1.219	13.9	1729	43.7	43.6	1.70
1.524	17.2	2161	54.3	54.3	2.12

COMPOSITE SLAB PROPERTIES (Per metre of width)

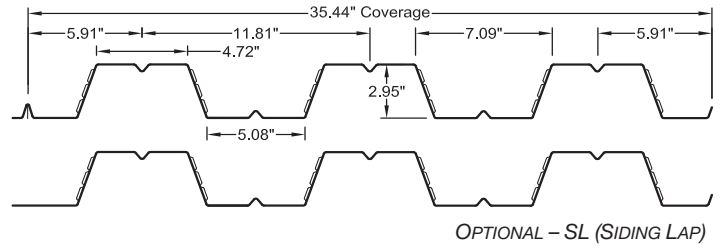
Overall Slab Depth, D (mm)					
130	140	150	160	170	180
Slab Weight (kPa)					
2.32	2.55	2.78	3.01	3.24	3.48
Concrete Volume (m³/10mm²)					
0.94	1.04	1.14	1.24	1.34	1.43

MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOADS (kPa)

SLAB DEPTH, D (mm)		130			140			150			160			170			180		
BASE STEEL (mm)	SLAB SPAN (mm)	DECK SPAN			DECK SPAN			DECK SPAN			DECK SPAN			DECK SPAN			DECK SPAN		
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
0.762	2400	12.9	12.9	12.9	14.3	14.3	14.3	15.7	15.7	15.7	17.1	17.1	17.1	18.4	18.4	18.4	19.8	19.8	19.8
	2500	12.1	12.1	12.1	13.4	13.4	13.4	14.7	14.7	14.7	16.0	16.0	16.0	17.3	17.3	17.3	18.6	18.6	18.6
	2600	11.4	11.4	11.4	12.6	12.6	12.6	13.8	13.8	13.8	15.0	15.0	15.0	16.2	16.2	16.2	17.4	17.4	17.4
	2800	10.1	10.1	10.1	11.2	11.2	11.2	12.3	12.3	12.3	13.3	13.3	13.3	14.4	14.4	14.4	15.5	15.5	15.5
	3000	8.9	8.9	8.9	10.0	10.0	10.0	11.0	11.0	11.0	12.0	12.0	12.0	12.9	12.9	12.9	13.9	13.9	13.9
	3200	7.6	7.6	7.6	8.6	8.6	8.6	9.6	9.6	9.6	10.5	10.5	10.5	11.5	11.5	11.5	12.4	12.4	12.4
	3400	6.6	6.6	6.6	7.4	7.4	7.4	8.2	8.2	8.2	9.0	9.0	9.0	9.9	9.9	9.9	10.7	10.7	10.7
	3500	6.1	6.1	6.1	6.9	6.9	6.9	7.6	7.6	7.6	8.4	8.4	8.4	9.2	9.2	9.2	9.9	9.9	9.9
3600	5.7	5.7	5.7	6.4	6.4	6.4	7.1	7.1	7.1	7.8	7.8	7.8	8.5	8.5	8.5	9.2	9.2	9.2	
0.914	2400	15.5	15.5	15.5	17.1	17.1	17.1	18.8	18.8	18.8	20.5	20.5	20.5	22.1	22.1	22.1	23.8	23.8	23.8
	2500	14.5	14.5	14.5	16.1	16.1	16.1	17.6	17.6	17.6	19.2	19.2	19.2	20.7	20.7	20.7	22.3	22.3	22.3
	2600	13.6	13.6	13.6	15.1	15.1	15.1	16.5	16.5	16.5	18.0	18.0	18.0	19.5	19.5	19.5	20.9	20.9	20.9
	2800	12.1	12.1	12.1	13.4	13.4	13.4	14.7	14.7	14.7	16.0	16.0	16.0	17.3	17.3	17.3	18.6	18.6	18.6
	3000	10.7	10.7	10.7	12.1	12.1	12.1	13.2	13.2	13.2	14.4	14.4	14.4	15.5	15.5	15.5	16.7	16.7	16.7
	3200	9.2	9.2	9.2	10.4	10.4	10.4	11.6	11.6	11.6	12.8	12.8	12.8	14.0	14.0	14.0	15.1	15.1	15.1
	3400	8.0	8.0	8.0	9.0	9.0	9.0	10.0	10.0	10.0	11.0	11.0	11.0	12.1	12.1	12.1	13.1	13.1	13.1
	3500	7.4	7.4	7.4	8.4	8.4	8.4	9.3	9.3	9.3	10.3	10.3	10.3	11.2	11.2	11.2	12.2	12.2	12.2
3600	6.9	6.9	6.9	7.8	7.8	7.8	8.7	8.7	8.7	9.6	9.6	9.6	10.5	10.5	10.5	11.4	11.4	11.4	
1.219	2600	18.1	18.1	18.1	20.1	20.1	20.1	22.0	22.0	22.0	24.0	24.0	24.0	25.9	25.9	25.9	27.8	27.8	27.8
	2800	16.1	16.1	16.1	17.9	17.9	17.9	19.6	19.6	19.6	21.3	21.3	21.3	23.1	23.1	23.1	24.8	24.8	24.8
	3000	14.5	14.5	14.5	15.9	15.9	15.9	17.6	17.6	17.6	19.2	19.2	19.2	20.7	20.7	20.7	22.3	22.3	22.3
	3200	13.1	13.1	13.1	13.7	13.7	13.7	15.3	15.3	15.3	17.0	17.0	17.0	18.6	18.6	18.6	20.2	20.2	20.2
	3400	12.0	12.0	12.0	11.9	11.9	11.9	13.3	13.3	13.3	14.8	14.8	14.8	16.2	16.2	16.2	17.6	17.6	17.6
	3500	11.5	11.5	11.5	11.1	11.1	11.1	12.5	12.5	12.5	13.8	13.8	13.8	15.1	15.1	15.1	16.5	16.5	16.5
	3600	11.0	11.0	11.0	10.4	10.4	10.4	11.7	11.7	11.7	12.9	12.9	12.9	14.2	14.2	14.2	15.4	15.4	15.4
	3800	10.2	10.2	10.2	9.1	9.1	9.1	10.2	10.2	10.2	11.3	11.3	11.3	12.5	12.5	12.5	13.6	13.6	13.6
4000	9.1	9.1	9.1	8.1	8.1	8.1	9.0	9.0	9.0	10.0	10.0	10.0	11.0	11.0	11.0	12.0	12.0	12.0	
1.524	2800	17.6	17.6	17.6	19.5	19.5	19.5	21.4	21.4	21.4	23.2	23.2	23.2	25.1	25.1	25.1	27.0	27.0	27.0
	3000	15.8	15.8	15.8	17.5	17.5	17.5	19.2	19.2	19.2	20.9	20.9	20.9	22.6	22.6	22.6	24.3	24.3	24.3
	3200	14.3	14.3	14.3	15.9	15.9	15.9	17.4	17.4	17.4	18.9	18.9	18.9	20.5	20.5	20.5	22.0	22.0	22.0
	3400	13.1	13.1	13.1	14.5	14.5	14.5	15.9	15.9	15.9	17.3	17.3	17.3	18.7	18.7	18.7	20.1	20.1	20.1
	3500	12.5	12.5	12.5	13.8	13.8	13.8	15.2	15.2	15.2	16.5	16.5	16.5	17.9	17.9	17.9	19.2	19.2	19.2
	3600	12.0	12.0	12.0	13.3	13.3	13.3	14.6	14.6	14.6	15.8	15.8	15.8	17.1	17.1	17.1	18.4	18.4	18.4
	3800	11.1	11.1	11.1	12.3	12.3	12.3	13.4	13.4	13.4	14.0	14.0	14.0	15.5	15.5	15.5	16.9	16.9	16.9
	4000	9.9	9.9	9.9	11.4	11.4	11.4	12.5	12.5	12.5	12.4	12.4	12.4	13.7	13.7	13.7	15.0	15.0	15.0
4200	8.5	8.5	8.5	10.5	10.5	10.5	11.6	11.6	11.6	11.1	11.1	11.1	12.2	12.2	12.2	13.3	13.3	13.3	

- Notes:**
- One shore support required at midspan in shaded areas.
 - Slab weight includes steel deck and concrete slab, which has been accounted for in load table.
 - See Composite slab notes and design example.





S-300-K STEEL COMPOSITE FLOOR

IMPERIAL

STEEL DECK SECTION PROPERTIES (Per foot of width)						COMPOSITE SLAB PROPERTIES (Per foot of width)					
Base Steel Thickness (in.)	Weight (ZF75)		Section Modulus (in ³)		Deflection Inertia (in ⁴)	Overall Slab Depth, D (in.)					
	(psf)	(in ²)	Midspan	Support		5.0	5.5	6.0	6.5	7.0	7.5
0.030	1.79	0.510	0.446	0.447	0.755	Slab Weight (psf)					
0.036	2.14	0.613	0.568	0.571	0.935	47.7	54.0	60.2	66.5	72.7	79.0
0.048	2.84	0.817	0.813	0.811	1.24	Concrete Volume (yd³/100ft²)					
0.060	3.53	1.02	1.01	1.01	1.55	1.10	1.25	1.40	1.56	1.71	1.87

MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOADS (psf)																			
SLAB DEPTH, D (in.)		5.0			5.5			6.0			6.5			7.0			7.5		
BASE STEEL (in.)	SLAB SPAN (ft)	DECK SPAN			DECK SPAN			DECK SPAN			DECK SPAN			DECK SPAN			DECK SPAN		
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
0.030	8.0	255	255	255	291	291	291	327	327	327	363	363	363	399	399	399	435	435	435
	8.5	232	232	232	264	264	264	297	297	297	329	329	329	362	362	362	394	394	394
	9.0	211	211	211	241	241	241	271	271	271	301	301	301	330	330	330	360	360	360
	9.5	192	192	192	221	221	221	249	249	249	276	276	276	303	303	303	330	330	330
	10.0	170	170	170	198	198	198	226	226	226	254	254	254	280	280	280	305	305	305
	10.5	151	151	151	176	176	176	200	200	200	225	225	225	250	250	250	275	275	275
	11.0	134	134	134	156	156	156	178	178	178	200	200	200	223	223	223	245	245	245
	11.5	119	119	119	139	139	139	159	159	159	179	179	179	199	199	199	219	219	219
0.036	8.0	306	306	306	348	348	348	391	391	391	434	434	434	477	477	477	520	520	520
	8.5	277	277	277	316	316	316	355	355	355	394	394	394	433	433	433	472	472	472
	9.0	253	253	253	289	289	289	325	325	325	360	360	360	396	396	396	431	431	431
	9.5	231	231	231	265	265	265	298	298	298	331	331	331	364	364	364	396	396	396
	10.0	204	204	204	239	239	239	274	274	274	305	305	305	336	336	336	366	366	366
	10.5	182	182	182	213	213	213	244	244	244	274	274	274	305	305	305	336	336	336
	11.0	162	162	162	190	190	190	218	218	218	245	245	245	273	273	273	301	301	301
	11.5	145	145	145	170	170	170	195	195	195	220	220	220	245	245	245	270	270	270
0.048	9.0	336	336	336	383	383	383	430	430	430	477	477	477	524	524	524	571	571	571
	9.5	300	300	300	352	352	352	395	395	395	439	439	439	482	482	482	525	525	525
	10.0	267	267	267	314	314	314	362	362	362	405	405	405	445	445	445	485	485	485
	10.5	238	238	238	281	281	281	324	324	324	367	367	367	410	410	410	450	450	450
	11.0	214	214	214	252	252	252	291	291	291	329	329	329	368	368	368	407	407	407
	11.5	192	192	192	227	227	227	262	262	262	297	297	297	332	332	332	366	366	366
	12.0	173	173	173	205	205	205	236	236	236	268	268	268	300	300	300	331	331	331
	12.5	157	157	157	185	185	185	214	214	214	243	243	243	271	271	271	300	300	300
0.060	10.0	311	311	311	355	355	355	399	399	399	442	442	442	486	486	486	530	530	530
	10.5	289	289	289	329	329	329	370	370	370	410	410	410	451	451	451	492	492	492
	11.0	269	269	269	306	306	306	345	345	345	383	383	383	420	420	420	458	458	458
	11.5	252	252	252	276	276	276	321	321	321	358	358	358	393	393	393	428	428	428
	12.0	236	236	236	250	250	250	291	291	291	331	331	331	369	369	369	402	402	402
	12.5	222	222	222	227	227	227	264	264	264	301	301	301	338	338	338	375	375	375
	13.0	197	197	197	207	207	207	240	240	240	274	274	274	308	308	308	342	342	342
	13.5	176	176	176	188	188	188	219	219	219	250	250	250	281	281	281	312	312	312
14.0	158	158	158	172	172	172	200	200	200	229	229	229	257	257	257	286	286	286	

- Notes:**
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 - See Composite slab notes and design example.

