

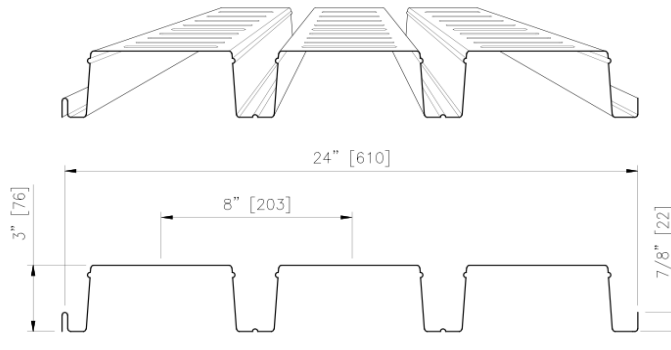
MODULAR RATIO n = 9

Standard Weight Concrete - 145 PCF

(Z-275 Galvanized)

COMPOSITE

SM675FD-DL



Properties for SM675FD-DL

(Z-275)

(per foot width)

BASE STEEL		NONCOMPOSITE									COMPOSITE				
THICKNESS		As	Ysb	Sm	Ss	Isd	Br	Br	Wd	Slab THK	lc	d	Regress. coef.	W1	VOC
GA.	THK.				(Mid)	(Ext)	(Int)								ft3/
	in	in^2/ft	in	in^3/ft	in^3/ft	in^4/ft	ib / ft	ib / ft	psf	in	in^4/ft	in	k values	psf	100 ft2
22	0.030	0.6360	1.9100	0.3731	0.3997	0.6840	832	1263	2.163	5	34.2	3.090	k1 = 4265 psi	36.3	25.9
										5.5	45.8	3.590	k2 = 414 lb/in	42.3	30.2
										6	59.6	4.090	k3 = 688 lb/in^3	48.4	34.5
										6.5	75.7	4.590	k4 = 0 psi	54.4	38.9
20	0.036	0.7610	1.9140	0.4750	0.5054	0.8758	1162	1765	2.588	5	39.400	3.086	k1 = 4265 psi	39.2	28.0
										5.5	52.600	3.586	k2 = 414 lb/in	45.7	32.6
										6	68.300	4.086	k3 = 688 lb/in^3	52.2	37.3
										6.5	86.700	4.586	k4 = 0 psi	58.7	41.9
18	0.048	1.0140	1.9240	0.6525	0.7129	1.2666	1944	2965	3.450	5	48.8	3.090	k1 = 4265 psi	40.0	28.5
										5.5	64.9	3.590	k2 = 414 lb/in	46.5	33.2
										6	84.1	4.090	k3 = 688 lb/in^3	52.9	37.8
										6.5	106.8	4.590	k4 = 0 psi	59.4	42.5
16	0.060	1.2640	1.9320	0.8346	0.8855	1.6610	2905	4446	4.300	5	57.3	3.090	k1 = 4265 psi	40.7	29.1
										5.5	75.8	3.590	k2 = 414 lb/in	47.2	33.7
										6	98.1	4.090	k3 = 688 lb/in^3	53.7	38.3
										6.5	124.4	4.590	k4 = 0 psi	60.2	43.0

Load Table Notes for SM675FD-DL

- The loads indicated in the tables are for superimposed specified live and dead loads. The weights of steel deck, wet concrete and 20.9 psf uniformly distributed construction load or a 137 lb / ft transverse live load have been included within the load tables.
- The load tables are based on the design of ONE-WAY composite slabs, in the direction of the flutes, carrying uniformly distributed loads on simple span basis.
- Load values are based on Normal Weight Concrete (density of 145 pcf) with a minimum compressive strength of 2900 psi.
- No additional reinforcing is required for the slab thickness shown on these tables. For temperature and shrinkage steel steel recommendations see the Samson Engineering Notes.
- Properties and loads are based on A653 structural quantify Grade 33 steel with a minimum yield stress of 33 ksi and a maximum stress under Specified loads of 29.7 ksi.
- The load table has not been limited.** However, heavy loads above 200 psf or in structures, or portions thereof, where loads are maintained for lengthy periods, such as warehouses, computer rooms, libraries or other conditions, where the effect of creep must be considered, contact Samson Metals Ltd.
- K1, K2, K3 and K4 values have been derived through testing.
- Composite load capacities are dependent on the material finish of the steel floor form.
- Heavy concentrated loads, moving and vibratory loads are not recommended on a composite floor system without additional negative and transverse reinforcing.**
- For span and slab depth values not shown please contact [Samson Metals Ltd](http://www.samsonmetals.com)



(Imperial - L.S.D. S136-07)

MODULAR RATIO $n = 9$

COMPOSITE

Standard Weight Concrete - 145 PCF

(Z-275 Galvanized)

SM675FD-DL

Specified Load Tables - psf

(3 span form)

Span ft	5.0 in Slab Depth				5.5 in. Slab Depth				6.0 in. Slab Depth				6.5 in Slab Depth			
	0.030	0.036	0.048	0.060	0.030	0.036	0.048	0.060	0.030	0.036	0.048	0.060	0.030	0.036	0.048	0.060
7.0	198	224	275	327	235	265	325	386	272	307	375	444	309	348	425	503
7.5	174	198	246	294	208	236	291	347	241	273	336	400	275	310	382	453
8.0	155	177	221	265	185	211	262	314	215	245	303	362	246	279	345	410
8.5	139	159	200	241	166	190	238	286	194	221	276	330	221	252	313	375
9.0	125	144	182	220	150	172	217	261	175	201	252	303	201	229	286	344
9.5	112	131	166	202	136	157	199	240	159	183	231	279	183	210	263	317
10.0	102	119	153	187	124	143	183	222	145	168	213	258	167	192	243	293
10.5	93	109	141	173	113	132	169	206	133	154	197	239	153	177	225	273
11.0	85	100	130	160	103	121	156	192	122	143	183	223	141	164	209	254
11.5	77	92	121	149	95	112	145	179	113	132	170	208	130	152	195	238
12.0	71	85	112	139	88	104	136	167	104	123	159	195	121	141	182	223
12.5	65	78	104	131	81	96	127	157	97	114	149	184	112	132	171	210
13.0	60	73	98	122	75	89	119	148	90	106	140	173	105	123	161	198
13.5	55	67	91	115	69	83	111	139	83	99	131	163	98	116	151	187

Specified Load Tables - psf

(2 span form)

Span ft	5.0 in Slab Depth				5.5 in. Slab Depth				6.0 in. Slab Depth				6.5 in Slab Depth			
	0.030	0.036	0.048	0.060	0.030	0.036	0.048	0.060	0.030	0.036	0.048	0.060	0.030	0.036	0.048	0.060
7.0	198	224	275	327	235	265	325	386	272	307	375	444	309	348	425	503
7.5	174	198	246	294	208	236	291	347	241	273	336	400	275	310	382	453
8.0	155	177	221	265	185	211	262	314	215	245	303	362	246	279	345	410
8.5	139	159	200	241	166	190	238	286	194	221	276	330	221	252	313	375
9.0	125	144	182	220	150	172	217	261	175	201	252	303	201	229	286	344
9.5	112	131	166	202	136	157	199	240	159	183	231	279	183	210	263	317
10.0	102	119	153	187	124	143	183	222	145	168	213	258	167	192	243	293
10.5	93	109	141	173	113	132	169	206	133	154	197	239	153	177	225	273
11.0	85	100	130	160	103	121	156	192	122	143	183	223	141	164	209	254
11.5	77	92	121	149	95	112	145	179	113	132	170	208	130	152	195	238
12.0	71	85	112	139	88	104	136	167	104	123	159	195	121	141	182	223
12.5	65	78	104	131	81	96	127	157	97	114	149	184	112	132	171	210
13.0	60	73	98	122	75	89	119	148	90	106	140	173	105	123	161	198
13.5	55	67	91	115	69	83	111	139	83	99	131	163	98	116	151	187

Specified Load Tables - psf

(1 span form)

Span ft	5.0 in Slab Depth				5.5 in. Slab Depth				6.0 in. Slab Depth				6.5 in Slab Depth			
	0.030	0.036	0.048	0.060	0.030	0.036	0.048	0.060	0.030	0.036	0.048	0.060	0.030	0.036	0.048	0.060
7.0	198	224	275	327	235	265	325	386	272	307	375	444	309	348	425	503
7.5	174	198	246	294	208	236	291	347	241	273	336	400	275	310	382	453
8.0	155	177	221	265	185	211	262	314	215	245	303	362	246	279	345	410
8.5	139	159	200	241	166	190	238	286	194	221	276	330	221	252	313	375
9.0	125	144	182	220	150	172	217	261	175	201	252	303	201	229	286	344
9.5	112	131	166	202	136	157	199	240	159	183	231	279	183	210	263	317
10.0	102	119	153	187	124	143	183	222	145	168	213	258	167	192	243	293
10.5	93	109	141	173	113	132	169	206	133	154	197	239	153	177	225	273
11.0	85	100	130	160	103	121	156	192	122	143	183	223	141	164	209	254
11.5	77	92	121	149	95	112	145	179	113	132	170	208	130	152	195	238
12.0	71	85	112	139	88	104	136	167	104	123	159	195	121	141	182	223
12.5	65	78	104	131	81	96	127	157	97	114	149	184	112	132	171	210
13.0	60	73	98	122	75	89	119	148	90	106	140	173	105	123	161	198
13.5	55	67	91	115	69	83	111	139	83	99	131	163	98	116	151	187