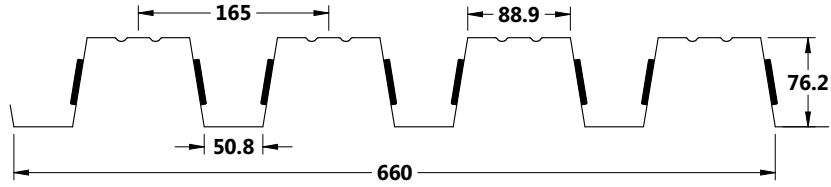


AFCD 3-26 ACCUFORM COMPOSITE FLOOR SLAB—METRIC

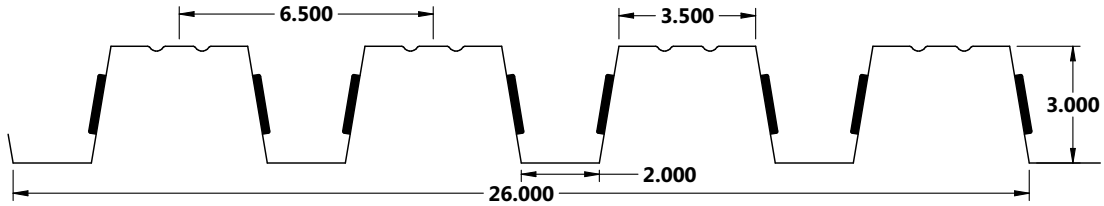


Steel Deck Section Properties (Per metre of width)							Composite Slab Properties (Per metre of width)				
Base Steel Thickness (mm)	Yield Stress (MPa)	Mass (Z275) (kg/m ²)	Area Steel (mm ²)	Section Modulus (x10 ³ mm ³)		Deflection Inertia (x10 ⁶ mm ⁴)	Overall Slab Depth, D (mm)				
				Midspan	Support		130	140	150	160	170
							Slab Weight (kPa)				
0.762	275	12.0	1491	23.2	24.1	1.07	2.06	2.29	2.51	2.74	2.96
0.914	275	14.3	1789	29.8	30.5	1.34	Concrete Volume (m ³ /10 m ²)				
1.219	275	19.0	2386	41.7	43.7	1.89	0.83	0.93	1.03	1.13	1.23

Maximum Specified Uniformly Distributed Loads (kPa)																
Slab Depth, D (mm)		130			140			150			160			170		
Base Steel (mm)	Slab Span (mm)	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
0.762	2200	10.2	10.2	10.2	11.4	11.4	11.4	12.6	12.6	12.6	13.8	13.8	13.8	14.9	14.9	14.9
	2400	8.8	8.8	8.8	9.8	9.8	9.8	10.8	10.8	10.8	11.8	11.8	11.8	12.8	12.8	12.8
	2600	7.6	7.6	7.6	8.5	8.5	8.5	9.4	9.4	9.4	10.3	10.3	10.3	11.2	11.2	11.2
	2800	6.7	6.7	6.7	7.5	7.5	7.5	8.3	8.3	8.3	9.1	9.1	9.1	9.8	9.8	9.8
	3000	6.0	6.0	6.0	6.7	6.7	6.7	7.4	7.4	7.4	8.1	8.1	8.1	8.7	8.7	8.7
	3200	5.4	5.4	5.4	6.0	6.0	6.0	6.6	6.6	6.6	7.2	7.2	7.2	7.8	7.8	7.8
	3400	4.8	4.8	4.8	5.4	5.4	5.4	6.0	6.0	6.0	6.5	6.5	6.5	7.1	7.1	7.1
	3600	4.4	4.4	4.4	4.9	4.9	4.9	5.4	5.4	5.4	5.9	5.9	5.9	6.4	6.4	6.4
0.914	2400	11.3	11.3	11.3	12.6	12.6	12.6	13.9	13.9	13.9	15.2	15.2	15.2	16.5	16.5	16.5
	2600	9.9	9.9	9.9	11.0	11.0	11.0	12.2	12.2	12.2	13.3	13.3	13.3	14.5	14.5	14.5
	2800	8.8	8.8	8.8	9.8	9.8	9.8	10.8	10.8	10.8	11.8	11.8	11.8	12.8	12.8	12.8
	3000	7.8	7.8	7.8	8.8	8.8	8.8	9.7	9.7	9.7	10.6	10.6	10.6	11.5	11.5	11.5
	3200	7.1	7.1	7.1	7.9	7.9	7.9	8.7	8.7	8.7	9.5	9.5	9.5	10.4	10.4	10.4
	3400	6.4	6.4	6.4	7.2	7.2	7.2	7.9	7.9	7.9	8.7	8.7	8.7	9.4	9.4	9.4
	3600	5.9	5.9	5.9	6.6	6.6	6.6	7.2	7.2	7.2	7.9	7.9	7.9	8.6	8.6	8.6
	3800	5.4	5.4	5.4	6.0	6.0	6.0	6.7	6.7	6.7	7.3	7.3	7.3	7.9	7.9	7.9
1.219	2600	14.3	14.3	14.3	16.0	16.0	16.0	17.6	17.6	17.6	19.3	19.3	19.3	20.0	20.0	20.0
	2800	12.8	12.8	12.8	14.3	14.3	14.3	15.7	15.7	15.7	17.2	17.2	17.2	18.7	18.7	18.7
	3000	11.5	11.5	11.5	12.8	12.8	12.8	14.2	14.2	14.2	15.5	15.5	15.5	16.9	16.9	16.9
	3200	10.5	10.5	10.5	11.7	11.7	11.7	12.9	12.9	12.9	14.1	14.1	14.1	15.3	15.3	15.3
	3400	9.6	9.6	9.6	10.7	10.7	10.7	11.8	11.8	11.8	12.9	12.9	12.9	14.0	14.0	14.0
	3600	8.8	8.8	8.8	9.8	9.8	9.8	10.8	10.8	10.8	11.8	11.8	11.8	12.9	12.9	12.9
	3800	8.1	8.1	8.1	9.1	9.1	9.1	10.0	10.0	10.0	10.9	10.9	10.9	11.9	11.9	11.9
	4000	7.5	7.5	7.5	8.4	8.4	8.4	9.3	9.3	9.3	10.2	10.2	10.2	11.0	11.0	11.0
	4200	7.0	7.0	7.0	7.9	7.9	7.9	8.7	8.7	8.7	9.5	9.5	9.5	10.3	10.3	10.3
	4400	6.6	6.6	6.6	7.3	7.3	7.3	8.1	8.1	8.1	8.9	8.9	8.9	9.6	9.6	9.6
0.762	DP	164			204			249			302			361		
0.914	DP	175			217			266			322			385		
1.219	DP	196			242			296			358			429		

- NOTES:**
- One shore support required at midspan in shaded areas (CSSBI 12M-2024).
 - Slab weight of steel deck and concrete slab has been accounted for in the load table.
 - Shoring was based on Light Duty uniform construction live load of 1 kPa.
 - DP = deflection parameter.
 - See composite slab notes and design example.
 - Prepared by Dr. R.M. Schuster, Distinguished Professor Emeritus, University of Waterloo.

AFCD 3-26 ACCUFORM COMPOSITE FLOOR SLAB – IMPERIAL



Steel Deck Section Properties (Per foot of width)							Composite Slab Properties (Per foot of width)				
Base Steel Thickness (in.)	Yield Stress (ksi)	Weight (G90) (psf)	Area Steel (in ²)	Section Modulus (in ³)		Deflection Inertia (in ⁴)	Overall Slab Depth, D (in.)				
				Midspan	Support		5.0	5.5	6.0	6.5	7.0
						Slab Weight (psf)					
0.030	40	2.32	0.665	0.431	0.449	0.781	41.8	47.8	53.9	59.9	66.0
0.036	40	2.77	0.798	0.554	0.567	0.981	Concrete Volume (yd ³ /100ft ²)				
0.048	40	3.68	1.06	0.776	0.813	1.38	0.97	1.13	1.28	1.44	1.59

Maximum Specified Uniformly Distributed Loads (psf)																
Slab Depth, D (in.)		5.0			5.5			6.0			6.5			7.0		
Base Steel (in.)	Slab Span (ft)	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
0.030	8'0"	173	173	173	199	199	199	226	226	226	252	252	252	278	278	278
	8'6"	156	156	156	180	180	180	204	204	204	227	227	227	251	251	251
	9'0"	142	142	142	163	163	163	185	185	185	206	206	206	228	228	228
	9'6"	129	129	129	149	149	149	169	169	169	188	188	188	208	208	208
	10'0"	119	119	119	137	137	137	155	155	155	173	173	173	191	191	191
	10'6"	109	109	109	126	126	126	143	143	143	159	159	159	176	176	176
	11'0"	101	101	101	117	117	117	132	132	132	148	148	148	163	163	163
0.036	9'0"	183	183	183	211	211	211	239	239	239	267	267	267	294	294	294
	9'6"	168	168	168	193	193	193	219	219	219	244	244	244	270	270	270
	10'0"	155	155	155	178	178	178	202	202	202	225	225	225	249	249	249
	10'6"	143	143	143	165	165	165	187	187	187	208	208	208	230	230	230
	11'0"	133	133	133	153	153	153	174	174	174	194	194	194	214	214	214
	11'6"	124	124	124	143	143	143	162	162	162	181	181	181	200	200	200
0.048	12'0"	116	116	116	134	134	134	152	152	152	169	169	169	187	187	187
	10'0"	226	226	226	261	261	261	295	295	295	330	330	330	364	364	364
	10'6"	210	210	210	242	242	242	274	274	274	307	307	307	339	339	339
	11'0"	196	196	196	226	226	226	256	256	256	286	286	286	316	316	316
	11'6"	184	184	184	212	212	212	240	240	240	268	268	268	296	296	296
	12'0"	173	173	173	199	199	199	225	225	225	252	252	252	278	278	278
	12'6"	163	163	163	188	188	188	212	212	212	237	237	237	262	262	262
	13'0"	154	154	154	177	177	177	201	201	201	224	224	224	248	248	248
	13'6"	146	146	146	168	168	168	190	190	190	212	212	212	235	235	235
	14'0"	138	138	138	159	159	159	180	180	180	202	202	202	223	223	223
	14'6"	132	132	132	152	152	152	172	172	172	192	192	192	212	212	212
	15'0"	125	125	125	145	145	145	164	164	164	183	183	183	202	202	202
0.030	DP	113			149			192			244			303		
0.036	DP	121			159			205			260			323		
0.048	DP	135			177			228			289			359		

- NOTES:** 1. One shore support required at midspan in shaded areas (CSSBI 12M-2024).
2. Slab weight of steel deck and concrete slab has been accounted for in the load table.
3. Shoring was based on Light Duty uniform construction live load of **20 psf**.
4. DP = deflection parameter.
5. See composite slab notes and design example.
6. Prepared by Dr. R.M. Schuster, Distinguished Professor Emeritus, University of Waterloo.