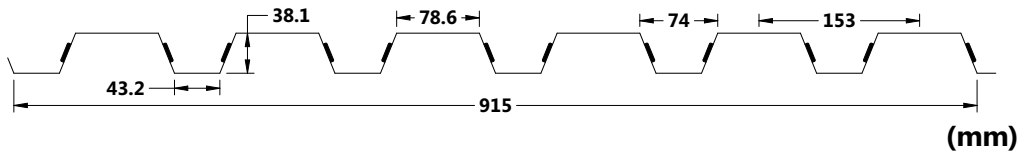


AFCD 15-36 ACCUFORM COMPOSITE FLOOR SLAB - **METRIC**

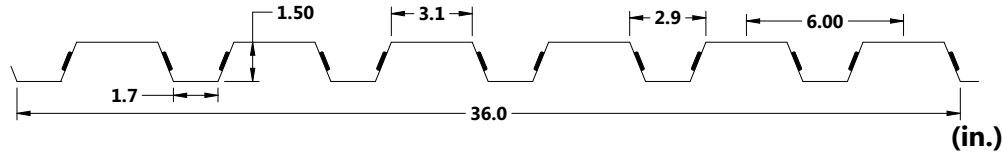


Steel Deck Section Properties (Per metre of width)							Composite Slab Properties (Per metre of width)				
Base Steel Thickness (mm)	Yield Stress (MPa)	Mass (Z275) (kg/m ²)	Area Steel (mm ²)	Section Modulus (x10 ³ mm ³)		Deflection Inertia (x10 ⁶ mm ⁴)	Overall Slab Depth, D (mm)				
				Midspan	Support		100	110	120	130	140
				Slab Weight (kPa)							
0.762	275	8.25	1016	9.78	9.84	0.230	1.88	2.11	2.34	2.56	2.79
0.914	275	9.85	1219	12.4	12.5	0.289	Concrete Volume (m ³ /10 m ²)				
1.219	275	13.0	1626	16.9	17.5	0.401	0.77	0.87	0.97	1.07	1.17

Maximum Specified Uniformly Distributed Loads (kPa)																
Slab Depth, D (mm)		100			110			120			130			140		
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	1500	16.9	16.9	16.9	19.0	19.0	19.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	1600	15.3	15.3	15.3	17.3	17.3	17.3	19.2	19.2	19.2	20.0	20.0	20.0	20.0	20.0	20.0
	1800	12.8	12.8	12.8	14.5	14.5	14.5	16.2	16.2	16.2	17.8	17.8	17.8	19.5	19.5	19.5
	2000	11.0	11.0	11.0	12.4	12.4	12.4	13.8	13.8	13.8	15.3	15.3	15.3	16.7	16.7	16.7
	2200	9.6	9.6	9.6	10.8	10.8	10.8	12.1	12.1	12.1	13.3	13.3	13.3	14.6	14.6	14.6
	2400	8.5	8.5	8.5	9.6	9.6	9.6	10.7	10.7	10.7	11.8	11.8	11.8	12.9	12.9	12.9
	2600	7.6	7.6	7.6	8.6	8.6	8.6	9.5	9.5	9.5	10.5	10.5	10.5	11.5	11.5	11.5
0.914	1500	19.8	19.8	19.8	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	1600	18.1	18.1	18.1	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	1800	15.4	15.4	15.4	17.4	17.4	17.4	19.4	19.4	19.4	20.0	20.0	20.0	20.0	20.0	20.0
	2000	13.3	13.3	13.3	15.0	15.0	15.0	16.8	16.8	16.8	18.5	18.5	18.5	20.0	20.0	20.0
	2200	11.7	11.7	11.7	13.2	13.2	13.2	14.8	14.8	14.8	16.3	16.3	16.3	17.8	17.8	17.8
	2400	10.4	10.4	10.4	11.8	11.8	11.8	13.2	13.2	13.2	14.5	14.5	14.5	15.9	15.9	15.9
	2600	9.4	9.4	9.4	10.6	10.6	10.6	11.9	11.9	11.9	13.1	13.1	13.1	14.3	14.3	14.3
1.219	1500	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	1600	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	1800	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2000	17.9	17.9	17.9	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2200	15.9	15.9	15.9	18.0	18.0	18.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2400	14.3	14.3	14.3	16.2	16.2	16.2	18.1	18.1	18.1	19.9	19.9	19.9	20.0	20.0	20.0
	2600	13.0	13.0	13.0	14.7	14.7	14.7	16.4	16.4	16.4	18.1	18.1	18.1	19.8	19.8	19.8
	2800	11.9	11.9	11.9	13.5	13.5	13.5	15.0	15.0	15.0	16.6	16.6	16.6	18.1	18.1	18.1
	3000	11.0	11.0	11.0	12.4	12.4	12.4	13.9	13.9	13.9	15.3	15.3	15.3	16.7	16.7	16.7
0.762	DP	81.0			108			139			177			220		
0.914	DP	86.7			115			149			188			234		
1.219	DP	96.9			128			166			210			261		

- 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 15-36 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		4.0	4.5	5.0	5.5	6.0
0.030	40	1.69	0.480	0.182	0.183	0.168	40.5	46.5	52.6	58.6	64.6
0.036	40	2.02	0.576	0.231	0.233	0.211	Concrete Volume (yd ³ /100ft ²)				
0.048	40	2.67	0.768	0.314	0.325	0.294	0.95	1.10	1.26	1.41	1.57

Maximum Specified Uniformly Distributed Loads (psf)																
Slab Depth, D (in.)		4.0			4.5			5.0			5.5			6.0		
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	5'0"	353	353	353	400	400	400	400	400	400	400	400	400	400	400	400
	5'6"	306	306	306	355	355	355	400	400	400	400	400	400	400	400	400
	6'0"	269	269	269	312	312	312	356	356	356	399	399	399	400	400	400
	6'6"	239	239	239	278	278	278	317	317	317	355	355	355	394	394	394
	7'0"	215	215	215	250	250	250	285	285	285	319	319	319	354	354	354
	7'6"	195	195	195	227	227	227	258	258	258	290	290	290	321	321	321
	8'0"	178	178	178	207	207	207	236	236	236	265	265	265	293	293	293
0.036	5'0"	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	5'6"	362	362	362	400	400	400	400	400	400	400	400	400	400	400	400
	6'0"	322	322	322	373	373	373	400	400	400	400	400	400	400	400	400
	6'6"	288	288	288	335	335	335	382	382	382	400	400	400	400	400	400
	7'0"	261	261	261	303	303	303	346	346	346	388	388	388	400	400	400
	7'6"	238	238	238	277	277	277	315	315	315	354	354	354	392	392	392
	8'0"	219	219	219	254	254	254	290	290	290	325	325	325	361	361	361
0.048	5'6"	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	6'0"	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	6'6"	387	387	387	400	400	400	400	400	400	400	400	400	400	400	400
	7'0"	354	354	354	400	400	400	400	400	400	400	400	400	400	400	400
	7'6"	325	325	325	378	378	378	400	400	400	400	400	400	400	400	400
	8'0"	301	301	301	350	350	350	399	399	399	400	400	400	400	400	400
	8'6"	280	280	280	326	326	326	371	371	371	400	400	400	400	400	400
	9'0"	262	262	262	304	304	304	347	347	347	389	389	389	400	400	400
	9'6"	246	246	246	286	286	286	325	325	325	365	365	365	400	400	400
	10'0"	232	232	232	269	269	269	307	307	307	344	344	344	381	381	381
0.030	DP	63.5			90.1			123			163			212		
0.036	DP	67.9			96.2			131			174			225		
0.048	DP	75.9			107			146			194			250		

- 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 **20 psf**.
 - DP = deflection parameter.
 - See composite slab notes and design example.
 - Prepared by Dr. R.M. Schuster, Distinguished Professor Emeritus, University of Waterloo.