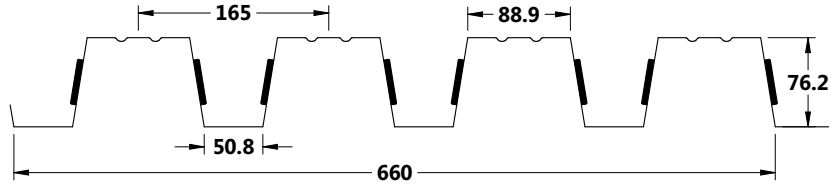


AFCD 3-26 ACCUFORM COMPOSITE FLOOR SLAB—METRIC



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
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:** 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 1 kPa.
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.

