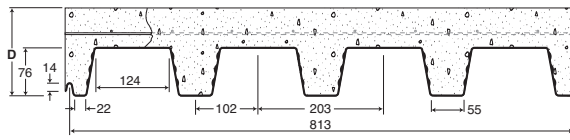


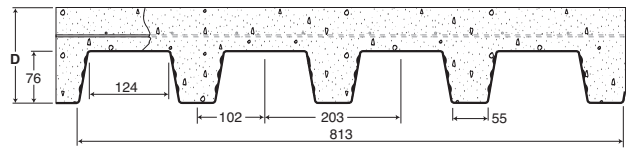
METRIC

CD75-200/CD75-200 CL

Composite Deck (Galvanneal) ZF75



CD75-200



CD75-200 CL

ALL DIMENSIONS ARE IN MILLIMETERS

Steel Deck – Section Properties

(Per Metre of Width)

Base Steel Thickness (mm)	Mass ZF75 Galvanneal (kg/m ²)	Area of Steel (mm ²)	Yield Stress (Mpa)	Section Modulus (x10 ³ mm ³)		Deflection Inertia Midspan (x10 ⁶ mm ⁴)
				Midspan	Support	
0.762	10.1	1257	230	20.1	21.3	0.922
0.914	12.1	1507	230	26.0	27.0	1.20
1.220	16.1	2010	230	36.2	38.8	1.73
1.520	20.0	2513	230	46.3	48.6	2.24

Composite Slab – Properties

(Per Metre of Width)

Overall Slab Depth, D (mm)	Slab Weight (kPa)				
	130	140	150	160	170
130	1.98	2.21	2.43	2.66	2.88
Concrete Volume (m ³ /10 m ²)					
150	0.79	0.89	0.99	1.09	1.19

Live Load Factor = 1.5; Importance Factor (I_{S-SLS}) = 0.90; Importance Factor (I_{S-ULS}) = 1.0

Load Table

Maximum Specified Uniformly Distributed Loads (kPa)

Slab Depth, D (mm)		130			140			150			160			170		
Base Steel (mm)	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	2600	10.7	10.7	10.7	11.9	11.9	11.9	13.2	13.2	13.2	14.5	14.5	14.5	15.8	15.8	15.8
	2800	9.5	9.5	9.5	10.6	10.6	10.6	11.8	11.8	11.8	12.9	12.9	12.9	14.0	14.0	14.0
	3000	8.5	8.5	8.5	9.6	9.6	9.6	10.6	10.6	10.6	11.6	11.6	11.6	12.6	12.6	12.6
	3200	7.7	7.7	7.7	8.6	8.6	8.6	9.6	9.6	9.6	10.5	10.5	10.5	11.4	11.4	11.4
	3400	7.0	7.0	7.0	7.9	7.9	7.9	8.7	8.7	8.7	9.6	9.6	9.6	10.4	10.4	10.4
0.914	3000	9.3	9.3	9.3	10.4	10.4	10.4	11.5	11.5	11.5	12.6	12.6	12.6	13.7	13.7	13.7
	3200	8.3	8.3	8.3	9.3	9.3	9.3	10.3	10.3	10.3	11.3	11.3	11.3	12.3	12.3	12.3
	3400	7.5	7.5	7.5	8.4	8.4	8.4	9.3	9.3	9.3	10.2	10.2	10.2	11.1	11.1	11.1
	3500	7.2	7.2	7.2	8.0	8.0	8.0	8.9	8.9	8.9	9.7	9.7	9.7	10.6	10.6	10.6
	3600	6.8	6.8	6.8	7.7	7.7	7.7	8.5	8.5	8.5	9.3	9.3	9.3	10.1	10.1	10.1
1.220	2800	11.8	11.8	11.8	13.2	13.2	13.2	14.6	14.6	14.6	16.0	16.0	16.0	17.4	17.4	17.4
	3000	10.3	10.3	10.3	11.6	11.6	11.6	12.8	12.8	12.8	14.1	14.1	14.1	15.3	15.3	15.3
	3200	9.2	9.2	9.2	10.3	10.3	10.3	11.4	11.4	11.4	12.5	12.5	12.5	13.6	13.6	13.6
	3400	8.2	8.2	8.2	9.2	9.2	9.2	10.2	10.2	10.2	11.1	11.1	11.1	12.1	12.1	12.1
	3500	7.8	7.8	7.8	8.7	8.7	8.7	9.6	9.6	9.6	10.6	10.6	10.6	11.5	11.5	11.5
	3600	7.4	7.4	7.4	8.3	8.3	8.3	9.1	9.1	9.1	10.0	10.0	10.0	10.9	10.9	10.9
	3800	6.7	6.7	6.7	7.5	7.5	7.5	8.3	8.3	8.3	9.1	9.1	9.1	9.9	9.9	9.9
	4000	6.1	6.1	6.1	6.8	6.8	6.8	7.5	7.5	7.5	8.3	8.3	8.3	9.0	9.0	9.0
	4200	5.6	5.6	5.6	6.2	6.2	6.2	6.9	6.9	6.9	7.5	7.5	7.5	8.2	8.2	8.2
	4400	5.1	5.1	5.1	5.7	5.7	5.7	6.3	6.3	6.3	6.9	6.9	6.9	7.5	7.5	7.5
1.520	3400	8.2	8.2	8.2	9.2	9.2	9.2	10.2	10.2	10.2	11.1	11.1	11.1	12.1	12.1	12.1
	3500	7.8	7.8	7.8	8.7	8.7	8.7	9.6	9.6	9.6	10.6	10.6	10.6	11.5	11.5	11.5
	3600	7.4	7.4	7.4	8.3	8.3	8.3	9.1	9.1	9.1	10.0	10.0	10.0	10.9	10.9	10.9
	3800	6.7	6.7	6.7	7.5	7.5	7.5	8.3	8.3	8.3	9.1	9.1	9.1	9.9	9.9	9.9
	4000	6.1	6.1	6.1	6.8	6.8	6.8	7.5	7.5	7.5	8.3	8.3	8.3	9.0	9.0	9.0
	4200	5.6	5.6	5.6	6.2	6.2	6.2	6.9	6.9	6.9	7.5	7.5	7.5	8.2	8.2	8.2
	4400	5.1	5.1	5.1	5.7	5.7	5.7	6.3	6.3	6.3	6.9	6.9	6.9	7.5	7.5	7.5
	4500	4.9	4.9	4.9	5.5	5.5	5.5	6.1	6.1	6.1	6.6	6.6	6.6	7.2	7.2	7.2
	4600	4.7	4.7	4.7	5.3	5.3	5.3	5.8	5.8	5.8	6.4	6.4	6.4	7.0	7.0	7.0
	4800	4.3	4.3	4.3	4.9	4.9	4.9	5.4	5.4	5.4	5.9	5.9	5.9	6.4	6.4	6.4

Note: 1 - One shore support required at midspan in shaded areas.

2 - Slab Weight includes steel deck and concrete slab, which has been accounted for in load table.

3 - See Designer Notes - Composite Slab.

4 - See Designer Notes - Web Crippling for important notes regarding Web Crippling design.

5 - For ZF75 deck material, contact Agway Metals for composite load tables.

6 - Bundled deck produced from either Galvanneal or G90 Galvanized coated steel is susceptible to storage stain when exposed to the elements. This staining is superficial only and is not a valid reason for rejection of this product.