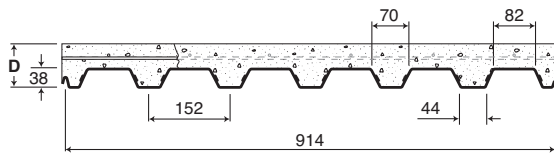


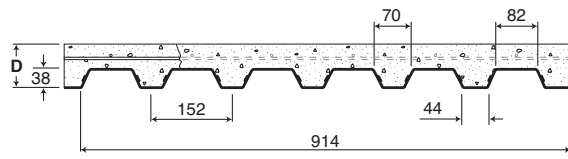
METRIC

CD36 / CD36 CL

Composite Deck (Galvanized) Z275



CD36



CD36 CL

ALL DIMENSIONS ARE IN MILLIMETERS

Steel Deck Section Properties

(Per Metre of Width)

Base Steel Thickness (mm)	Mass Z275 Galvanized (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	8.10	1004	230	9.89	10.4	0.223
0.914	9.72	1203	230	12.10	12.50	0.278
1.220	13.00	1600	230	16.50	16.90	0.382

Composite Slab Properties

(Per Metre of Width)

Overall Slab Depth, D (mm)				
100	110	120	130	140
Slab Weight (kPa)				
1.86	2.08	2.31	2.53	2.76
Concrete Volume (m ³ /10 m ²)				
0.77	0.87	0.97	1.07	1.17

Load Table

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

Maximum Specified Uniformly Distributed Loads (kPa)

Slab Depth, D (mm)		100			110			120			130			140			
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	1500	19.5	19.5	19.5	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	17.2	17.2	17.2	19.5	19.5	19.5	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	1800	13.7	13.7	13.7	15.5	15.5	15.5	17.3	17.3	17.3	19.1	19.1	19.1	20.0	20.0	20.0	20.0
	2000	11.2	11.2	11.2	12.7	12.7	12.7	14.1	14.1	14.1	15.6	15.6	15.6	17.0	17.0	17.0	17.0
	2200	9.4	9.4	9.4	10.6	10.6	10.6	11.8	11.8	11.8	13.0	13.0	13.0	14.2	14.2	14.2	14.2
	2400	7.9	7.9	7.9	8.9	8.9	8.9	10.0	10.0	10.0	11.0	11.0	11.0	12.0	12.0	12.0	12.0
	2500	7.3	7.3	7.3	8.3	8.3	8.3	9.2	9.2	9.2	10.2	10.2	10.2	11.1	11.1	11.1	11.1
	2600	6.8	6.8	6.8	7.7	7.7	7.7	8.6	8.6	8.6	9.4	9.4	9.4	10.3	10.3	10.3	10.3
0.914	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	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	20.0
	1800	17.0	17.0	17.0	19.2	19.2	19.2	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2000	14.3	14.3	14.3	16.1	16.1	16.1	18.0	18.0	18.0	19.8	19.8	19.8	20.0	20.0	20.0	20.0
	2200	12.2	12.2	12.2	13.8	13.8	13.8	15.4	15.4	15.4	17.0	17.0	17.0	18.5	18.5	18.5	18.5
	2400	10.6	10.6	10.6	12.0	12.0	12.0	13.4	13.4	13.4	14.8	14.8	14.8	16.1	16.1	16.1	16.1
	2500	10.0	10.0	10.0	11.3	11.3	11.3	12.5	12.5	12.5	13.8	13.8	13.8	15.1	15.1	15.1	15.1
	2600	9.4	9.4	9.4	10.6	10.6	10.6	11.8	11.8	11.8	13.0	13.0	13.0	14.2	14.2	14.2	14.2
1.220	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	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	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	20.0
	2000	19.6	19.6	19.6	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
	2200	17.2	17.2	17.2	19.4	19.4	19.4	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2400	15.3	15.3	15.3	17.3	17.3	17.3	19.3	19.3	19.3	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2500	14.5	14.5	14.5	16.4	16.4	16.4	18.3	18.3	18.3	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2600	13.8	13.8	13.8	15.6	15.6	15.6	17.4	17.4	17.4	19.2	19.2	19.2	20.0	20.0	20.0	20.0
	2800	12.3	12.3	12.3	14.2	14.2	14.2	15.8	15.8	15.8	17.4	17.4	17.4	19.0	19.0	19.0	19.0
	3000	10.0	10.0	10.0	12.3	12.3	12.3	14.1	14.1	14.1	15.9	15.9	15.9	17.4	17.4	17.4	17.4

- 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 - 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.