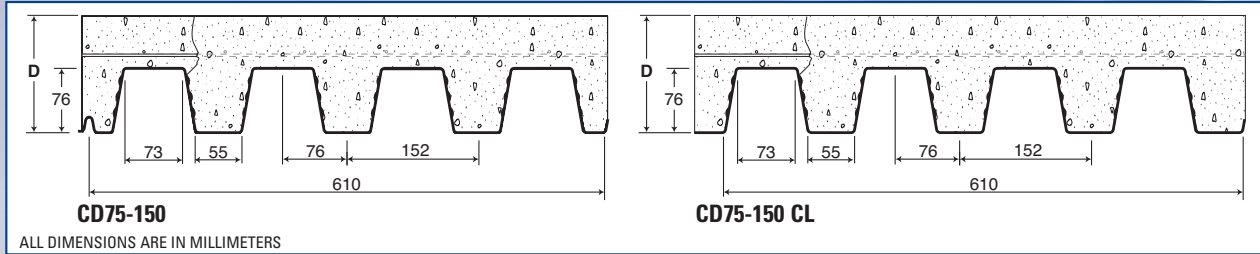


METRIC

CD75-150/CD75-150 CL Composite Deck (Galvanneal) ZF75



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)	Overall Slab Depth, D (mm)				
				Midspan	Support		130	140	150	160	170
0.762	11.4	1421	230	26.0	26.4	1.18	2.20	2.42	2.65	2.87	3.10
0.914	13.7	1705	230	33.3	33.4	1.46	Concrete Volume (m ³ /10 m ²)				
1.220	18.1	2274	230	47.4	48.2	2.00	0.88	0.98	1.08	1.18	1.28
1.520	22.6	2843	230	60.0	60.3	2.49					

Composite Slab – Properties (Per Metre of Width)

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	13.7	13.7	13.7	15.2	15.2	15.2	16.7	16.7	16.7	18.3	18.3	18.3	19.8	19.8	19.8
	2800	12.2	12.2	12.2	13.5	13.5	13.5	14.9	14.9	14.9	16.2	16.2	16.2	17.6	17.6	17.6
	3000	10.9	10.9	10.9	12.1	12.1	12.1	13.4	13.4	13.4	14.6	14.6	14.6	15.8	15.8	15.8
	3200	9.8	9.8	9.8	11.0	11.0	11.0	12.1	12.1	12.1	13.2	13.2	13.2	14.3	14.3	14.3
	3400	8.5	8.5	8.5	9.7	9.7	9.7	10.8	10.8	10.8	12.0	12.0	12.0	13.1	13.1	13.1
0.914	3000	11.8	11.8	11.8	13.2	13.2	13.2	14.5	14.5	14.5	15.8	15.8	15.8	17.2	17.2	17.2
	3200	10.6	10.6	10.6	11.8	11.8	11.8	13.0	13.0	13.0	14.2	14.2	14.2	15.4	15.4	15.4
	3400	9.6	9.6	9.6	10.7	10.7	10.7	11.8	11.8	11.8	12.8	12.8	12.8	13.9	13.9	13.9
	3500	9.2	9.2	9.2	10.2	10.2	10.2	11.2	11.2	11.2	12.2	12.2	12.2	13.3	13.3	13.3
	3600	8.7	8.7	8.7	9.7	9.7	9.7	10.7	10.7	10.7	11.7	11.7	11.7	12.7	12.7	12.7
1.220	2800	15.1	15.1	15.1	16.8	16.8	16.8	18.4	18.4	18.4	20.0	20.0	20.0	20.0	20.0	20.0
	3000	13.2	13.2	13.2	14.7	14.7	14.7	16.2	16.2	16.2	17.7	17.7	17.7	19.2	19.2	19.2
	3200	11.7	11.7	11.7	13.0	13.0	13.0	14.4	14.4	14.4	15.7	15.7	15.7	17.0	17.0	17.0
	3400	10.5	10.5	10.5	11.7	11.7	11.7	12.8	12.8	12.8	14.0	14.0	14.0	15.2	15.2	15.2
	3500	9.9	9.9	9.9	11.0	11.0	11.0	12.2	12.2	12.2	13.3	13.3	13.3	14.4	14.4	14.4
	3600	9.4	9.4	9.4	10.5	10.5	10.5	11.5	11.5	11.5	12.6	12.6	12.6	13.7	13.7	13.7
	3800	8.5	8.5	8.5	9.5	9.5	9.5	10.5	10.5	10.5	11.4	11.4	11.4	12.4	12.4	12.4
	4000	7.8	7.8	7.8	8.6	8.6	8.6	9.5	9.5	9.5	10.4	10.4	10.4	11.3	11.3	11.3
	4200	7.1	7.1	7.1	7.9	7.9	7.9	8.7	8.7	8.7	9.5	9.5	9.5	10.3	10.3	10.3
4400	6.5	6.5	6.5	7.3	7.3	7.3	8.0	8.0	8.0	8.7	8.7	8.7	9.5	9.5	9.5	
1.520	3400	10.5	10.5	10.5	11.7	11.7	11.7	12.8	12.8	12.8	14.0	14.0	14.0	15.2	15.2	15.2
	3500	9.9	9.9	9.9	11.0	11.0	11.0	12.2	12.2	12.2	13.3	13.3	13.3	14.4	14.4	14.4
	3600	9.4	9.4	9.4	10.5	10.5	10.5	11.5	11.5	11.5	12.6	12.6	12.6	13.7	13.7	13.7
	3800	8.5	8.5	8.5	9.5	9.5	9.5	10.5	10.5	10.5	11.4	11.4	11.4	12.4	12.4	12.4
	4000	7.8	7.8	7.8	8.6	8.6	8.6	9.5	9.5	9.5	10.4	10.4	10.4	11.3	11.3	11.3
	4200	7.1	7.1	7.1	7.9	7.9	7.9	8.7	8.7	8.7	9.5	9.5	9.5	10.3	10.3	10.3
	4400	6.5	6.5	6.5	7.3	7.3	7.3	8.0	8.0	8.0	8.7	8.7	8.7	9.5	9.5	9.5
	4500	6.3	6.3	6.3	7.0	7.0	7.0	7.7	7.7	7.7	8.4	8.4	8.4	9.1	9.1	9.1
	4600	6.0	6.0	6.0	6.7	6.7	6.7	7.4	7.4	7.4	8.0	8.0	8.0	8.7	8.7	8.7
4800	5.6	5.6	5.6	6.2	6.2	6.2	6.8	6.8	6.8	7.4	7.4	7.4	8.1	8.1	8.1	

- Notes: 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 Z275 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.