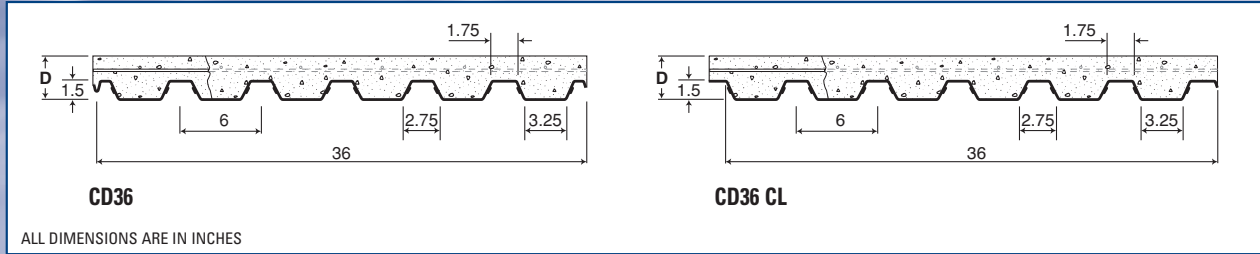


# Composite Deck (Galvanized) Inverted G90 CD36 / CD36 CL



### Steel Deck Section Properties (Per Foot of Width)

Base Steel Thickness (in.)	Weight G90 Galvanized (psf)	Area of Steel (in <sup>2</sup> )	Yield Stress (KSI)	Section Modulus (in <sup>3</sup> )		Deflection Inertia Midspan (in <sup>4</sup> )
				Midspan	Support	
0.030	1.66	0.474	33	0.181	0.181	0.176
0.036	1.99	0.569	33	0.230	0.225	0.211
0.048	2.66	0.756	33	0.315	0.306	0.280

### Composite Slab Properties (Per Foot of Width)

Overall Slab Depth, D (in.)	Slab Weight (psf)					Concrete Volume (yd <sup>3</sup> /100ft <sup>2</sup> )				
	4.0	4.5	5.0	5.5	6.0	1.07	1.22	1.37	1.53	1.68
4.0	45.9	52.1	58.4	64.4	70.9	1.07	1.22	1.37	1.53	1.68
4.5										
5.0										
5.5										
6.0										

### Load Table

Live Load Factor = 1.5; Importance Factor (I<sub>s-sls</sub>) = 0.90; Importance Factor (I<sub>s-uls</sub>) = 1.0

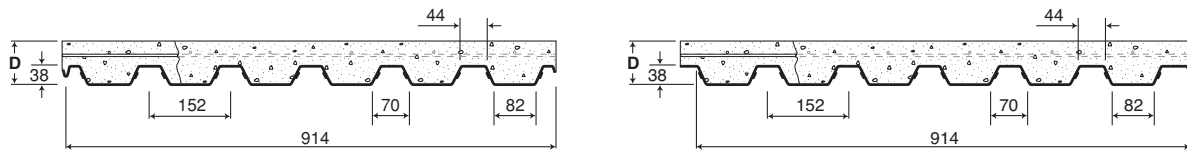
#### Maximum Specified Uniformly Distributed Loads (psf)

Slab Depth, D (in.)		4.0			4.5			5.0			5.5			6.0			
Base Steel (in.)	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"	400	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	400
	6'-0"	311	311	311	357	357	357	400	400	400	400	400	400	400	400	400	400
	6'-6"	271	271	271	311	311	311	351	351	351	390	390	390	400	400	400	400
	7'-0"	238	238	238	274	274	274	309	309	309	344	344	344	379	379	379	379
	7'-6"	212	212	212	243	243	243	275	275	275	306	306	306	337	337	337	337
	8'-0"	190	190	190	218	218	218	246	246	246	274	274	274	302	302	302	302
0.036	5'-0"	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	5'-6"	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	6'-0"	379	379	379	400	400	400	400	400	400	400	400	400	400	400	400	400
	6'-6"	333	333	333	383	383	383	400	400	400	400	400	400	400	400	400	400
	7'-0"	297	297	297	340	340	340	384	384	384	400	400	400	400	400	400	400
	7'-6"	266	266	266	306	306	306	345	345	345	384	384	384	400	400	400	400
	8'-0"	241	241	241	277	277	277	312	312	312	348	348	348	383	383	383	383
0.048	5'-6"	400	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	400
	6'-6"	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	7'-0"	398	398	398	400	400	400	400	400	400	400	400	400	400	400	400	400
	7'-6"	361	361	361	400	400	400	400	400	400	400	400	400	400	400	400	400
	8'-0"	330	330	330	378	378	378	400	400	400	400	400	400	400	400	400	400
	8'-6"	303	303	303	348	348	348	392	392	392	400	400	400	400	400	400	400
	9'-0"	280	280	280	321	321	321	363	363	363	400	400	400	400	400	400	400
	9'-6"	260	260	260	298	298	298	337	337	337	375	375	375	400	400	400	400
	10'-0"	240	240	240	278	278	278	314	314	314	350	350	350	386	386	386	386

- 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 Galvalume 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.

**METRIC**

**CD36 / CD36 CL Composite Deck (Galvanized) Inverted Z275**



**CD36**

**CD36 CL**

ALL DIMENSIONS ARE IN MILLIMETERS

**Steel Deck Section Properties**  
(Per Metre of Width)

**Composite Slab Properties**  
(Per Metre of Width)

Base Steel Thickness (mm)	Mass Z275 Galvanized (kg/m <sup>2</sup> )	Area of Steel (mm <sup>2</sup> )	Yield Stress (Mpa)	Section Modulus (x10 <sup>3</sup> mm <sup>3</sup> )		Deflection Inertia Midspan (x10 <sup>6</sup> mm <sup>4</sup> )	Overall Slab Depth, D (mm)				
				Midspan	Support		100	110	120	130	140
0.762	8.10	1004	230	9.82	9.89	0.241	Slab Weight (kPa)				
							2.07	2.30	2.52	2.75	2.97
0.914	9.72	1203	230	12.50	12.10	0.288	Concrete Volume (m <sup>3</sup> /10 m <sup>2</sup> )				
							0.86	0.96	1.06	1.16	1.26
1.220	13.00	1600	230	16.90	16.50	0.383	Concrete Volume (m <sup>3</sup> /10 m <sup>2</sup> )				
							0.86	0.96	1.06	1.16	1.26

**Load Table**

Live Load Factor = 1.5; Importance Factor (I<sub>S-SLS</sub>) = 0.90; Importance Factor (I<sub>S-ULS</sub>) = 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	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	18.5	18.5	18.5	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
	1800	15.0	15.0	15.0	16.8	16.8	16.8	18.6	18.6	18.6	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2000	12.5	12.5	12.5	14.0	14.0	14.0	15.5	15.5	15.5	17.0	17.0	17.0	18.4	18.4	18.4	18.4
	2200	10.6	10.6	10.6	11.9	11.9	11.9	13.2	13.2	13.2	14.4	14.4	14.4	15.7	15.7	15.7	15.7
	2400	9.2	9.2	9.2	10.3	10.3	10.3	11.4	11.4	11.4	12.4	12.4	12.4	13.5	13.5	13.5	13.5
	2500	8.6	8.6	8.6	9.6	9.6	9.6	10.6	10.6	10.6	11.6	11.6	11.6	12.6	12.6	12.6	12.6
	2600	8.0	8.0	8.0	9.0	9.0	9.0	9.9	9.9	9.9	10.9	10.9	10.9	11.8	11.8	11.8	11.8
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	18.3	18.3	18.3	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	15.4	15.4	15.4	17.3	17.3	17.3	19.1	19.1	19.1	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2200	13.3	13.3	13.3	14.8	14.8	14.8	16.4	16.4	16.4	18.0	18.0	18.0	19.6	19.6	19.6	19.6
	2400	11.6	11.6	11.6	13.0	13.0	13.0	14.3	14.3	14.3	15.7	15.7	15.7	17.1	17.1	17.1	17.1
	2500	10.9	10.9	10.9	12.2	12.2	12.2	13.5	13.5	13.5	14.8	14.8	14.8	16.0	16.0	16.0	16.0
	2600	10.3	10.3	10.3	11.5	11.5	11.5	12.7	12.7	12.7	13.9	13.9	13.9	15.1	15.1	15.1	15.1
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	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
	2200	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	20.0
	2400	15.8	15.8	15.8	17.7	17.7	17.7	19.6	19.6	19.6	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2500	14.9	14.9	14.9	16.7	16.7	16.7	18.5	18.5	18.5	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2600	14.2	14.2	14.2	15.8	15.8	15.8	17.5	17.5	17.5	19.2	19.2	19.2	20.0	20.0	20.0	20.0
	2800	12.8	12.8	12.8	14.3	14.3	14.3	15.8	15.8	15.8	17.3	17.3	17.3	18.8	18.8	18.8	18.8
	3000	11.6	11.6	11.6	13.0	13.0	13.0	14.4	14.1	14.1	15.8	15.8	15.8	17.1	17.1	17.1	17.1

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