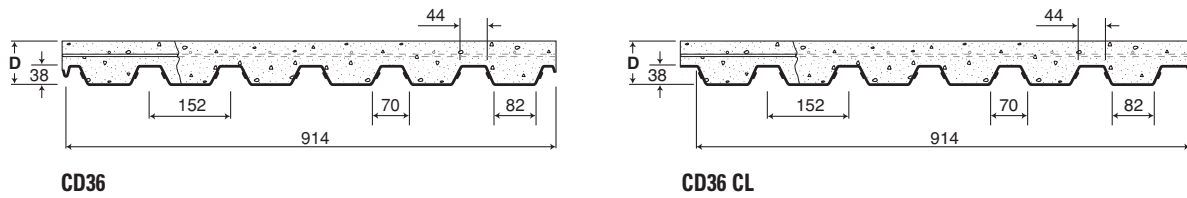


METRIC

CD36 / CD36 CL Composite Deck (Galvanized) Inverted Z275



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 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 | | 100 | 110 | 120 | 130 | 140 | | | | | |
| 0.762 | 8.10 | 1004 | 230 | 9.82 | 9.89 | 0.241 | Slab Weight (kPa) | | | | | | | | | |
| 0.914 | 9.72 | 1203 | 230 | 12.50 | 12.10 | 0.288 | Concrete Volume (m ³ /10 m ²) | | | | | | | | | |
| 1.220 | 13.00 | 1600 | 230 | 16.90 | 16.50 | 0.383 | 2.07 | 2.30 | 2.52 | 2.75 | 2.97 | 0.86 | 0.96 | 1.06 | 1.16 | 1.26 |

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 | 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.
- 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.