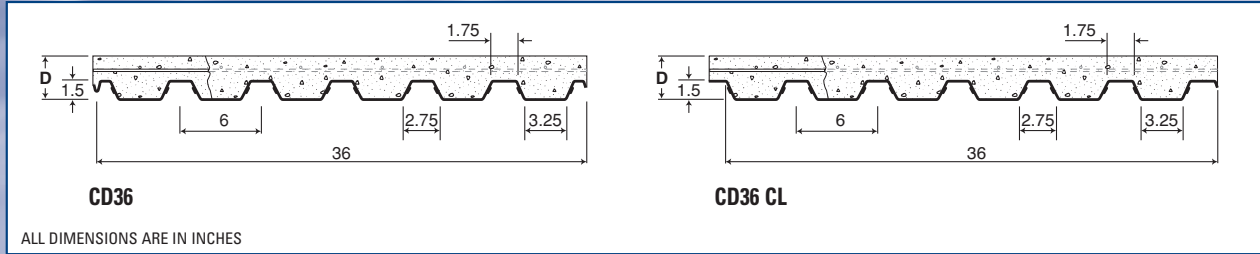


Composite Deck (Galvanized) Inverted G90 CD36 / CD36 CL



Steel Deck Section Properties (Per Foot of Width)

| Base Steel Thickness (in.) | Weight G90 Galvanized (psf) | Area of Steel (in ²) | Yield Stress (KSI) | Section Modulus (in ³) | | Deflection Inertia Midspan (in ⁴) |
|----------------------------|-----------------------------|----------------------------------|--------------------|------------------------------------|---------|-----------------------------------------------|
| | | | | 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 ³ /100ft ²) |
|-----------------------------|-------------------|------|------|------|------|--------------------------------------------------------|
| | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | |
| 4.0 | 45.9 | 52.1 | 58.4 | 64.4 | 70.9 | |
| 4.5 | | | | | | |
| 5.0 | | | | | | |
| 5.5 | | | | | | |
| 6.0 | | | | | | |

Load Table

Live Load Factor = 1.5; Importance Factor (I_{s-sls}) = 0.90; Importance Factor (I_{s-uls}) = 1.0

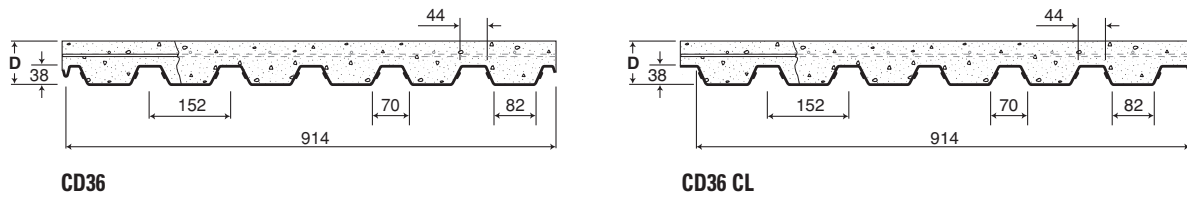
Maximum Specified Uniformly Distributed Loads (psf)

| 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 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.

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.
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