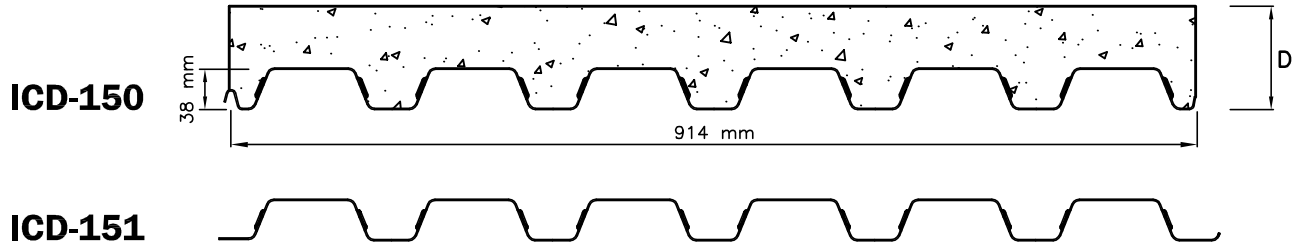


ICD-150 and ICD-151

Composite Floor Deck

METRIC

Z275 Galvanized



STEEL PROFILE SECTION PROPERTIES (per metre of width)					
Base Steel Thickness (mm)	Area of Steel (mm ²)	Mass Z275 (kg/m ²)	Section Modulus		Deflection Inertia (x10 ⁶ mm ⁴)
			Midspan (x10 ³ mm ³)	Support (x10 ³ mm ³)	
0.762	1017	8.26	10.2	10.4	0.236
0.914	1221	9.86	12.4	13.0	0.293
1.22	1628	13.1	16.9	17.2	0.397

COMPOSITE SLAB SECTION PROPERTIES (per metre of width)					
Slab Depth, D (mm)					
100	110	120	130	140	
Slab weight (kPa)					
1.88	2.11	2.33	2.56	2.78	
Concrete Volume (m ³ /10m ²)					
0.76	0.86	0.96	1.06	1.16	

MAXIMUM SPECIFIED UNIFORMLY DISTRIBUTED LOADS (kPa)																
Slab Depth, D (mm)		100			110			120			130			140		
Base Steel Thickness (mm)	Slab Span (m)	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	1.5	24.2	24.2	24.2	27.3	27.3	27.3	30.4	30.4	30.4	33.6	33.6	33.6	36.7	36.7	36.7
	1.6	21.6	21.6	21.6	24.4	24.4	24.4	27.2	27.2	27.2	30.0	30.0	30.0	32.8	32.8	32.8
	1.8	17.6	17.6	17.6	19.8	19.8	19.8	22.1	22.1	22.1	24.4	24.4	24.4	26.7	26.7	26.7
	2.0	14.6	14.6	14.6	16.5	16.5	16.5	18.4	18.4	18.4	20.3	20.3	20.3	22.2	22.2	22.2
	2.2	12.4	12.4	12.4	14.1	14.1	14.1	15.7	15.7	15.7	17.3	17.3	17.3	18.9	18.9	18.9
	2.4	10.8	10.8	10.8	12.1	12.1	12.1	13.5	13.5	13.5	14.9	14.9	14.9	16.3	16.3	16.3
	2.5	10.0	10.0	10.0	11.3	11.3	11.3	12.7	12.7	12.7	14.0	14.0	14.0	15.3	15.3	15.3
	2.6	9.4	9.4	9.4	10.6	10.6	10.6	11.9	11.9	11.9	13.1	13.1	13.1	14.3	14.3	14.3
	2.8	8.0	8.0	8.0	9.2	9.2	9.2	10.5	10.5	10.5	11.6	11.6	11.6	12.7	12.7	12.7
	3.0	6.8	6.8	6.8	7.8	7.8	7.8	8.9	8.9	8.9	10.0	10.0	10.0	11.0	11.0	11.0
3.2	5.8	5.8	5.8	6.7	6.7	6.7	7.6	7.6	7.6	8.5	8.5	8.5	9.4	9.4	9.4	
0.914	1.5	26.2	26.2	26.2	29.6	29.6	29.6	33.0	33.0	33.0	36.4	36.4	36.4	39.8	39.8	39.8
	1.6	23.6	23.6	23.6	26.6	26.6	26.6	29.7	29.7	29.7	32.8	32.8	32.8	35.8	35.8	35.8
	1.8	19.5	19.5	19.5	22.0	22.0	22.0	24.6	24.6	24.6	27.1	27.1	27.1	29.6	29.6	29.6
	2.0	16.5	16.5	16.5	18.6	18.6	18.6	20.8	20.8	20.8	22.9	22.9	22.9	25.1	25.1	25.1
	2.2	14.2	14.2	14.2	16.1	16.1	16.1	17.9	17.9	17.9	19.7	19.7	19.7	21.6	21.6	21.6
	2.4	12.4	12.4	12.4	14.0	14.0	14.0	15.7	15.7	15.7	17.3	17.3	17.3	18.9	18.9	18.9
	2.5	11.7	11.7	11.7	13.2	13.2	13.2	14.7	14.7	14.7	16.2	16.2	16.2	17.7	17.7	17.7
	2.6	11.0	11.0	11.0	12.4	12.4	12.4	13.9	13.9	13.9	15.3	15.3	15.3	16.7	16.7	16.7
	2.8	9.5	9.5	9.5	11.0	11.0	11.0	12.4	12.4	12.4	13.7	13.7	13.7	15.0	15.0	15.0
	3.0	8.1	8.1	8.1	9.4	9.4	9.4	10.7	10.7	10.7	12.0	12.0	12.0	13.3	13.3	13.3
3.2	6.9	6.9	6.9	8.1	8.1	8.1	9.2	9.2	9.2	10.3	10.3	10.3	11.4	11.4	11.4	
1.22	1.5	28.8	28.8	28.8	32.5	32.5	32.5	36.2	36.2	36.2	40.0	40.0	40.0	43.7	43.7	43.7
	1.6	26.2	26.2	26.2	29.6	29.6	29.6	33.0	33.0	33.0	36.4	36.4	36.4	39.8	39.8	39.8
	1.8	22.1	22.1	22.1	24.9	24.9	24.9	27.8	27.8	27.8	30.7	30.7	30.7	33.5	33.5	33.5
	2.0	19.0	19.0	19.0	21.5	21.5	21.5	24.0	24.0	24.0	26.4	26.4	26.4	28.9	28.9	28.9
	2.2	16.6	16.6	16.6	18.8	18.8	18.8	21.0	21.0	21.0	23.1	23.1	23.1	25.3	25.3	25.3
	2.4	14.8	14.8	14.8	16.7	16.7	16.7	18.6	18.6	18.6	20.5	20.5	20.5	22.5	22.5	22.5
	2.5	14.0	14.0	14.0	15.8	15.8	15.8	17.6	17.6	17.6	19.4	19.4	19.4	21.3	21.3	21.3
	2.6	13.3	13.3	13.3	15.0	15.0	15.0	16.7	16.7	16.7	18.4	18.4	18.4	20.2	20.2	20.2
	2.8	12.0	12.0	12.0	13.6	13.6	13.6	15.1	15.1	15.1	16.7	16.7	16.7	18.3	18.3	18.3
	3.0	9.9	9.9	9.9	12.2	12.2	12.2	13.8	13.8	13.8	15.2	15.2	15.2	16.7	16.7	16.7
3.2	8.2	8.2	8.2	10.5	10.5	10.5	12.1	12.1	12.1	13.6	13.6	13.6	15.2	15.2	15.2	

Note: Shoring required at midspan in shaded areas.