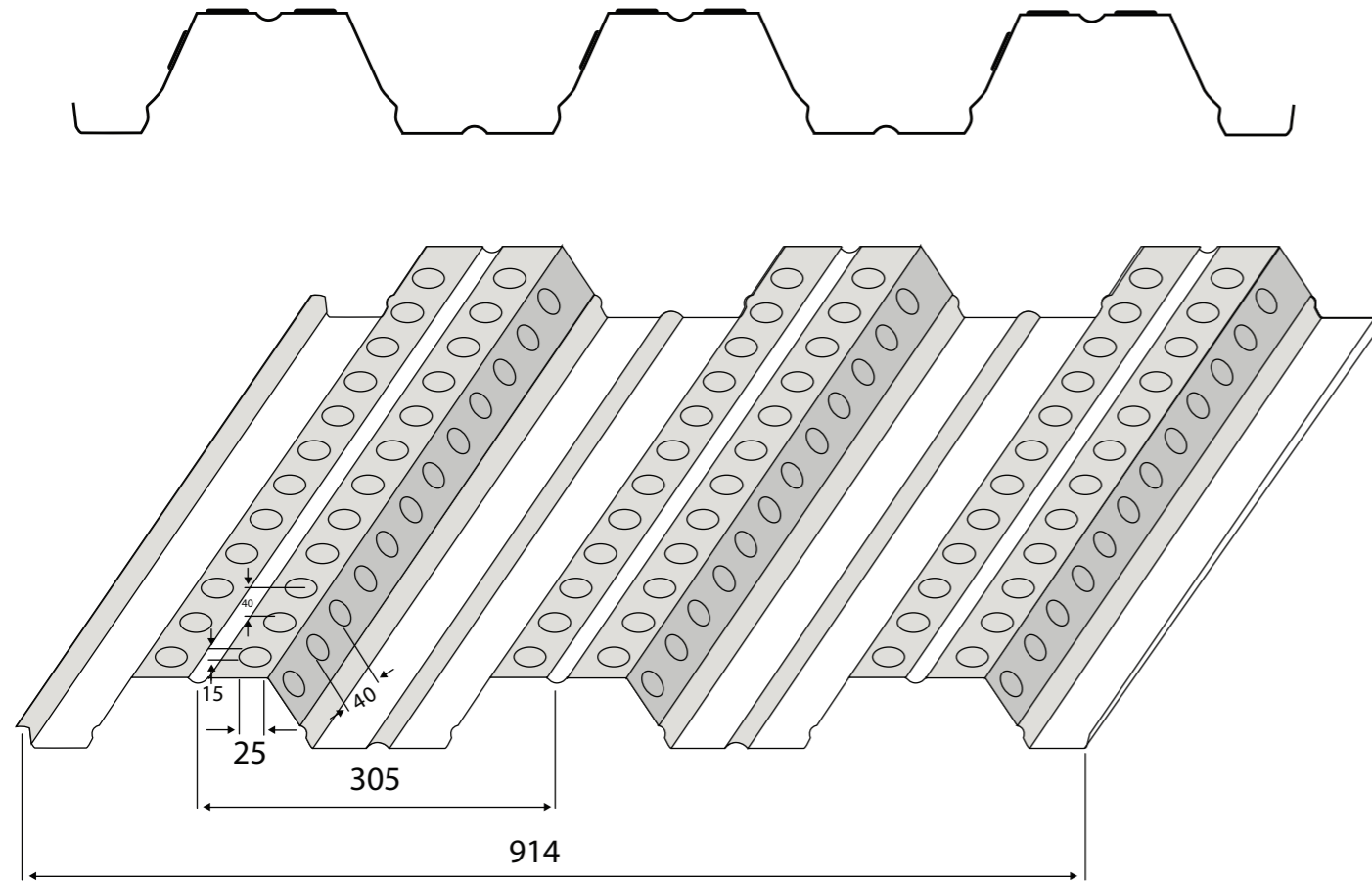


DECKING SHEETS

DSD 75/305 Decking Sheets



Material Specification

- A Galvanized and Color Coated Steel of thickness 0.7mm to 1.5mm conforming to EN 10147 Fe 350 Z27/ ASTM A653 GD 350 G 90.
- B Hot dip galvanized with G90 or Z27 coating
- C Yield Strength 350 N/mm²
- D Painting is baked regular modified polyester with 5 micron primer and 20 micron coat on the weathering side and 5/7 micron primer on the reverse - PVDF, Silicon, Modified Polyester, Plastisol and ARS coating on request is applicable

SECTION PROPERTIES (per meter of coverage width)

Thickness (mm)	Weight Kg/m ²	Area cm ²	For 1 mm with units mm-kg		
			Ix cm ⁴	Sx Top cm ³	Sx Bottom cm ³
0.70	7.59	9.665	92.4020	25.213	24.608
0.80	8.67	11.044	10.56015	28.774	28.087
0.90	9.75	12.425	11.88010	32.322	31.558
1.00	10.83	13.805	13.20007	35.863	35.020
1.20	13.00	16.565	15.84011	42.912	41.919
1.50	16.24	20.704	19.80053	53.413	52.204

Thickness mm	span condition	thickness of concrete above deck sheet						
		50	75	100	125	150	175	200
Permissible Span in mtr for construction stage - wt of concrete + LL 1.5 kN/m ²								
0.7	▲▲	2.663	2.540	2.438	2.350	2.273	2.206	2.146
	▲▲▲	3.352	3.134	2.953	2.801	2.670	2.556	2.455
	▲▲▲▲	3.290	3.139	3.012	2.903	2.809	2.725	2.651
Ultimate moment Of resistance Composite (kNm)		24.55	31.63	38.8	45.78	42.86	59.94	67.02
0.8	▲▲	2.784	2.656	2.549	2.457	2.377	2.306	2.244
	▲▲▲	3.581	3.348	3.155	2.992	2.852	2.730	2.623
	▲▲▲▲	3.440	3.281	3.149	3.034	2.936	2.849	2.772
Ultimate moment Of resistance Composite (kNm)		28.07	36.16	44.24	52.33	60.42	68.51	76.60
0.9	▲▲	2.896	2.762	2.651	2.555	2.472	2.399	2.332
	▲▲▲	3.796	3.549	3.344	3.171	3.023	2.894	2.780
	▲▲▲▲	4.243	3.967	3.739	3.545	3.380	3.235	3.108
Ultimate moment Of resistance Composite (kNm)		31.59	40.69	49.79	58.89	67.99	77.09	86.19
1.0	▲▲	2.999	2.861	2.745	2.646	2.560	2.484	2.417
	▲▲▲	3.998	3.738	3.523	3.341	3.185	3.049	2.927
	▲▲▲▲	3.705	3.535	3.392	3.269	3.163	3.069	2.986
Ultimate moment Of resistance Composite (kNm)		35.11	45.22	55.33	65.44	75.55	85.65	95.77
1.2	▲▲	3.187	3.040	2.917	2.812	2.721	2.640	2.568
	▲▲▲	4.283	4.086	3.854	3.655	3.484	3.335	3.204
	▲▲▲▲	3.937	3.756	3.604	3.474	3.361	3.262	3.172
Ultimate moment Of resistance Composite (kNm)		35.57	54.30	66.43	78.56	90.69	102.82	114.95
1.4	▲▲	3.355	3.201	3.071	2.960	2.864	2.779	2.704
	▲▲▲	4.509	4.302	4.128	3.943	3.759	3.598	3.456
	▲▲▲▲	4.145	3.954	3.794	3.657	3.538	3.434	3.340
Ultimate moment Of resistance Composite (kNm)		35.06	59.09	77.54	91.69	105.84	119.98	134.13
1.5	▲▲	3.433	3.275	3.143	3.029	2.931	2.844	2.757
	▲▲▲	4.614	4.402	4.224	4.070	3.888	3.722	3.575
	▲▲▲▲	4.241	4.406	3.882	3.741	3.621	3.513	3.417
Ultimate moment Of resistance Composite (kNm)		35.70	59.14	83.09	98.26	113.40	128.56	143.72