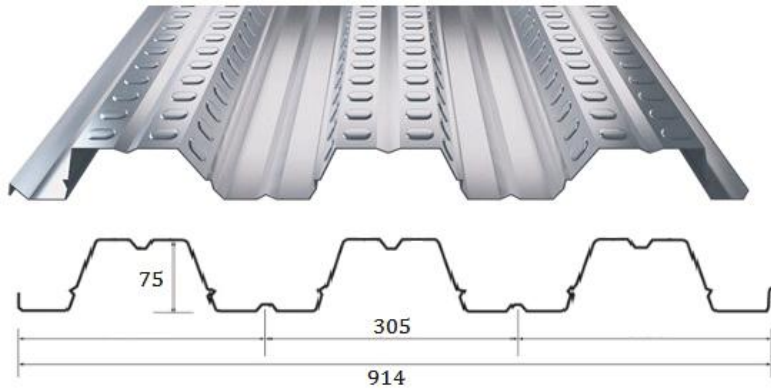




# ISO THERM 75/305 -DECKING



## GI/STEEL

### APPLICATION SPECIFICATION

- Structural Composite Steel Decking
- Steel Sheets are Galvanized
- Base Metal conforms to ASTM A653/653M
- Hot dip galvanized with G90 or 275 GSM

- Embossments give better Shear key
- Fast laying
- Economic (Low Transport & Handling Cost)
- Thickness from 0.7 mm to 1.5 mm

### PROPERTIES & LOAD TABLES

#### Section Properties (Per Meter of Coverage Width Base Metal-STEEL)

Thickness	Weight	Area	Top in Compression				Bottom in Compression				Shear
			ix cm <sup>4</sup>	Sx Top cm <sup>3</sup>	Sx Top cm <sup>3</sup>	Ma KN-m	ix cm <sup>4</sup>	Sx Top cm <sup>3</sup>	Sx Bottom cm <sup>3</sup> T	Ma KN-m	
mm	Kg/M <sup>2</sup>	Cm <sup>2</sup>	ix cm <sup>4</sup>	Sx Top cm <sup>3</sup>	Sx Top cm <sup>3</sup>	Ma KN-m	ix cm <sup>4</sup>	Sx Top cm <sup>3</sup>	Sx Bottom cm <sup>3</sup> T	Ma KN-m	Va KN
0.70	7.283	9.290	71.761	16.687	22.165	5.548	66.660	20.702	15.437	5.133	50.858
0.80	8.322	10.614	87.284	21.077	25.650	7.008	78.133	23.832	18.317	6.091	66.288
0.90	9.360	11.939	99.980	24.351	29.028	8.096	89.908	26.978	21.319	7.088	78.229
1.00	10.398	13.263	112.882	27.706	32.421	9.213	101.948	30.137	24.430	8.122	86.670
1.20	12.473	15.910	139.200	34.620	39.243	11.511	126.675	36.479	30.932	10.284	103.401
1.50	15.592	19.888	179.717	45.383	49.566	15.090	165.205	46.050	41.319	13.739	128.978

#### Ultimate Uniform Load Capacities(KN/m<sup>2</sup>)

Thickness	No. of Spans	Load	Span in Meters								
			1	1.25	1.5	1.75	2	2.25	2.5	2.75	3.00
mm	No's	Case	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3.00
0.70	Single Spans	Imposed Load	44.387	28.408	18.452	11.620	7.785	5.467	3.986	2.995	2.307
		Wind load	41.063	26.280	18.250	13.408	10.266	7.618	5.554	4.172	3.214
0.70	Multi Spans	Imposed Load	55.484	35.510	24.659	18.117	13.871	10.316	7.520	5.650	4.352
		Wind load	51.329	32.850	22.813	16.760	12.832	10.139	8.213	6.787	5.703
0.80	Single Spans	Imposed Load	56.066	35.882	22.444	14.134	9.469	6.650	4.848	3.642	2.805
		Wind load	48.726	31.185	21.656	15.911	12.182	8.929	6.509	4.891	3.767
0.80	Multi Spans	Imposed Load	70.082	44.852	31.148	22.884	17.521	12.547	9.147	6.872	5.293
		Wind load	60.908	38.981	27.070	19.888	15.227	12.031	9.745	8.054	6.768
0.90	Single Spans	Imposed Load	64.770	41.453	25.709	16.190	10.846	7.617	5.553	4.172	3.214
		Wind load	56.704	36.291	25.202	18.516	14.176	10.275	7.490	5.628	4.335
0.90	Multi Spans	Imposed Load	80.962	51.816	35.983	26.437	20.241	14.372	10.477	7.872	6.063
		Wind load	70.880	45.363	31.502	23.145	17.720	14.001	11.341	9.373	7.876
1.00	Single Spans	Imposed Load	73.701	47.169	29.026	18.279	12.245	8.600	6.270	4.710	3.628
		Wind load	64.980	41.587	28.880	21.218	16.245	11.651	8.494	6.381	4.915
1.00	Multi Spans	Imposed Load	92.127	58.961	40.945	30.082	23.032	16.227	11.830	8.888	6.846
		Wind load	81.225	51.984	36.100	26.522	20.306	16.044	12.996	10.740	9.025
1.20	Single Spans	Imposed Load	92.090	58.937	35.794	22.541	15.100	10.606	7.731	5.809	4.474
		Wind load	82.274	52.656	36.566	26.865	20.569	14.477	10.554	7.929	6.107
1.20	Multi Spans	Imposed Load	115.112	73.672	51.161	37.588	28.491	20.010	14.588	10.960	8.442
		Wind load	102.843	65.820	45.708	33.581	25.711	20.315	16.455	13.599	11.427
1.50	Single Spans	Imposed Load	120.722	77.262	46.212	29.101	19.496	13.692	9.982	7.499	5.776
		Wind load	109.909	70.342	48.849	35.889	26.882	18.880	13.764	10.341	7.965
1.50	Multi Spans	Imposed Load	150.902	96.577	67.068	49.274	36.784	25.835	18.834	14.150	10.899
		Wind load	137.387	87.927	61.061	44.861	34.347	27.138	21.982	18.167	15.028

1. Sheeting design is based on AISI -2001 (LRFD) or equi BS5950 P5. 2. Imposed Load = Dead Load + Live Load (Deflection Limitation : Span/180)  
 3. Wind Load = Wind Uplift (Deflection Limitation : Span/120)

