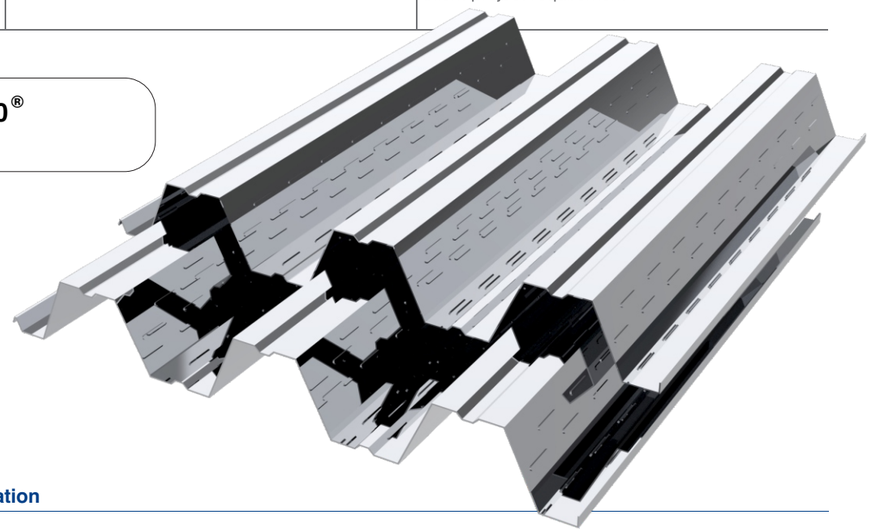
Composite Decking Sheet

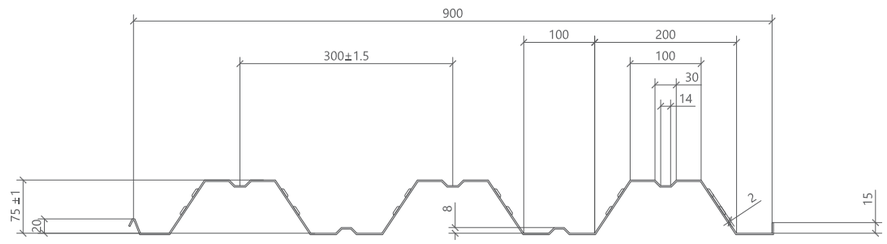
Specification

Thickness	Steel Grade	Coating
0.7 mm to 1.5 mm	ASTM A653 Ss50 Class 1. Equivalent grade shall be provided as per Client project requirement.	Hot-dip galvanization of zinc coat 275 gsm (G90). Other equivalent coating shall be provided as per Client project requirement

AM 75/300®



Design Information



Nominal Thickness (mm)	Nominal weight (kg/m)	Area (cm)	Top in Compression				Bottom in Compression				Shear
			ix (cm4)	Sx-Top (cm)	Sx-bottom (cm)	Ma KN-m	ix (cm4)	Sx-Top (cm)	Sx-bottom (cm)	Ma KN-m	VaKN
0.70	7.28	9.29	71.76	16.69	22.17	5.55	66.66	20.70	15.44	5.13	50.86
0.80	8.32	10.61	87.28	21.08	25.65	7.01	78.13	23.83	18.32	6.09	66.29
0.90	9.36	11.94	99.98	24.35	29.03	8.10	89.91	26.98	21.32	7.09	78.23
1.00	10.40	13.26	112.88	27.71	32.42	9.21	101.95	30.14	24.43	8.12	86.67
1.20	12.47	15.91	139.20	34.62	39.24	11.51	126.68	36.48	30.93	10.28	103.40
1.50	15.59	19.89	179.72	45.38	49.57	15.09	165.21	46.05	41.32	13.74	128.98

ALLOWABLE UNIFORM LOAD IN kN /m											
Panel Thickness	Span Type	Load Case	Span in Meters								
			1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00
0.70	Single Spans	Imposed	44.39	28.41	18.45	11.62	7.79	5.47	3.99	3.00	2.31
		Wind	41.06	26.28	18.25	13.41	10.27	7.62	5.55	4.17	3.21
	Multi Spans	Imposed	55.48	35.51	24.66	18.12	13.87	10.32	7.52	5.65	4.35
		Wind	51.33	32.85	22.81	16.76	12.83	10.14	8.21	6.79	5.70
0.80	Single Spans	Imposed	56.07	35.88	22.44	14.13	9.47	6.65	4.85	3.64	2.81
		Wind	48.73	31.19	21.66	15.91	12.18	8.93	6.51	4.89	3.77
	Multi Spans	Imposed	70.08	44.85	31.15	22.88	17.52	12.55	9.15	6.87	5.29
		Wind	60.91	38.98	27.07	19.89	15.23	12.03	9.75	8.05	6.77
0.90	Single Spans	Imposed	64.77	41.45	25.71	16.19	10.85	7.62	5.55	4.17	3.21
		Wind	56.70	36.29	25.20	18.52	14.18	10.28	7.49	5.63	4.34
	Multi Spans	Imposed	80.96	51.82	35.98	26.44	20.24	14.37	10.48	7.87	6.06
		Wind	70.88	45.36	31.50	23.15	17.72	14.00	11.34	9.37	7.88
1.00	Single Spans	Imposed	73.70	47.17	29.03	18.28	12.25	8.60	6.27	4.71	3.63
		Wind	64.98	41.59	28.88	21.22	16.25	11.65	8.49	6.38	4.92
	Multi Spans	Imposed	92.13	58.96	40.95	30.08	23.03	16.23	11.83	8.89	6.85
		Wind	81.23	51.98	36.10	26.52	20.31	16.04	13.00	10.74	9.03
1.20	Single Spans	Imposed	92.09	58.94	35.79	22.54	15.10	10.61	7.73	5.81	4.47
		Wind	82.27	52.66	36.57	26.87	20.57	14.48	10.55	7.93	6.11
	Multi Spans	Imposed	115.11	73.67	51.16	37.59	28.49	20.01	14.59	10.96	8.44
		Wind	102.84	65.82	45.71	33.58	25.71	20.32	16.46	13.60	11.43
1.50	Single Spans	Imposed	120.72	77.26	46.21	29.10	19.50	13.69	9.98	7.50	5.78
		Wind	109.91	70.34	48.85	35.89	26.88	18.88	13.76	10.34	7.97
	Multi Spans	Imposed	150.90	96.58	67.07	49.27	36.78	25.84	18.83	14.15	10.90
		Wind	137.39	87.93	61.06	44.86	34.35	27.14	21.98	18.17	15.03

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)