EXP 45/150 DATA SHEET

NMSS GROUP
Assuring Quality Material

Nominal Thickness (T) (MM)	Cover Width (mm)	Nominal Weight (kg/m2)	Area (cm2)	Full Sect. Ix (cm 4)	Elastic Modulus (E) (kN/CM 2)	Top in Compression				Bottom in Compression			
						Ixet (cm 4)	Sx-Top (cm3)	Sx-Bot (cm3)	Ma bx (kNm)	Ixet (cm 4)	Sx-Top (cm3)	Sx-Bot (cm3)	Ma bx (kNm)
0.40	900	4.26	5.43	16.78	20300	14.87	5.83	7.47	0.79	13.10	6.31	5.31	0.72
0.50	900	5.32	6.79	20.97	20300	19.42	7.78	9.47	1.06	17.23	8.06	7.14	0.97
0.60	900	6.38	8.14	25.16	20300	24.12	9.81	11.49	1.33	21.59	9.83	9.13	1.24
0.70	900	7.45	9.50	29.34	20300	28.88	11.88	13.50	1.61	26.12	11.62	11.26	1.53
0.80	900	8.51	10.86	33.53	20300	33.23	13.70	15.42	1.87	30.83	13.43	13.49	1.83
0.90	900	9.58	12.21	37.73	20300	37.60	15.53	17.34	2.11	35.76	14.97	15.91	2.08
1.00	900	10.64	13.58	41.91	20300	41.91	17.30	19.26	1.36	40.77	17.11	18.39	1.33
1.20	900	12.77	16.28	50.29	20300	50.29	20.68	23.00	2.81	50.29	20.70	23.00	1.81

STEEL: PERMISSIBLE SPAN (MM)

Nominal Thickness (T) (MM)	No. of Spans	Load Case	1.00	1.25	Span (m)						
					1.50	1.75	2.00	2.25	2.50	2.75	3.00
0.70	1	D+L	12.89	8.25	5.73	4.21	3.18	2.23	1.63	1.22	0.94
0.70	1	WS	12.27	7.85	5.45	4.01	3.07	2.23	1.63	1.22	0.94
0.70	2	D+L	11.93	7.71	5.38	3.97	3.04	2.41	1.95	1.62	1.36
0.70	2	WS	12.49	8.08	5.65	4.17	3.20	2.53	2.05	1.70	1.43
0.70	3	D+L	14.73	9.56	6.69	4.94	3.79	3.00	2.44	2.02	1.70
0.70	3	WS	15.42	10.02	7.02	5.18	3.98	3.15	2.56	2.05	1.58
0.80	1	D+L	14.93	0.56	6.64	4.88	3.63	2.55	1.86	1.40	1.08
0.80	1	WS	14.67	9.39	6.52	4.79	3.63	2.55	1.86	1.40	1.08
0.80	2	D+L	14.30	9.24	6.45	4.75	3.64	2.88	2.34	1.93	1.62
0.80	2	WS	14.55	9.40	6.56	4.83	3.71	2.93	2.38	1.97	1.65
0.80	3	D+L	17.69	11.46	8.02	5.92	4.54	3.60	2.92	2.41	2.03
0.80	3	WS	17.99	11.66	8.16	6.02	4.62	3.66	2.97	2.42	1.87
0.90	1	D+L	16.89	10.81	7.51	5.51	4.09	2.87	2.09	1.57	1.21
0.90	1	WS	16.62	10.64	7.39	5.43	4.09	2.87	2.09	1.57	1.21
0.90	2	D+L	16.20	10.46	7.30	5.38	4.13	3.27	2.65	2.19	1.84
0.90	2	WS	16.45	10.63	7.42	5.47	1.19	3.32	2.69	2.23	1.87
0.90	3	D+L	20.04	12.99	9.08	6.70	5.15	4.07	3.30	2.73	2.28
0.90	3	WS	20.33	13.19	9.22	6.81	5.23	4.14	3.36	2.78	2.16
1.00	1	D+L	18.84	12.06	8.38	6.15	4.54	2.19	2.32	1.75	1.34
1.00	1	WS	18.67	11.95	8.30	6.10	4.54	1.19	2.32	1.75	1.34
1.00	2	D+L	18.19	11.75	8.20	6.04	4.64	3.67	2.97	2.46	2.07
1.00	2	WS	18.35	11.85	8.28	6.10	4.68	3.70	3.00	2.48	2.09
1.00	3	D+L	22.48	14.58	10.20	7.52	5.78	4.57	3.71	3.07	2.54
1.00	3	WS	22.68	14.71	10.29	7.59	5.83	4.62	3.75	3.10	2.47
1.20	1	D+L	22.49	14.39	10.00	7.34	5.44	3.82	2.79	2.09	1.61
1.20	1	WS	22.49	14.39	10.00	7.34	5.44	3.82	2.79	2.09	1.61
1.20	2	D+L	21.90	14.15	9.88	7.28	5.58	4.42	3.58	2.96	2.49
1.20	2	WS	21.90	14.15	9.88	7.28	5.58	4.42	3.58	2.96	2.49
1.20	3	D+L	27.07	17.56	12.28	9.06	6.96	5.51	4.47	3.70	3.04
1.20	3	WS	27.07	17.56	12.28	9.06	6.96	5.51	4.47	3.70	3.04

Notes: 1. Design of Sheeting is based on equations of AISI -2001 (ASD - Allowable Stress design).

2. DL = Dead + Live Load (Deflection Limitation: Span / 180) 3. Wind Uplift (Deflection Limitation : Span / 120)