

GI DATA SHEET



NMSS GROUP
Roofing Quality Roofs

Section Properties (per meter of coverage width)										
Thickness	Weight	Area	Top in Comparison			Bottom in Comparison			Shear	
mm	Kg/m ²	cm ²	Ix cm ⁴	Sx Topcm ³	Sx Bottomcm ³	Ma KN-m	Ix cm ⁴	Sx Topcm ³	Sx Bottomcm ³	Va KN
0.4	3.82	4.88	9.97	2.88	9.4	0.96	9.57	4.04	4.44	1.34
0.5	4.78	6.09	14.09	4.23	11.77	1.41	12.53	5.14	5.99	1.71
0.6	5.73	7.31	18.54	5.75	14.13	1.91	15.59	6.24	7.64	2.08
0.7	6.69	8.53	23.2	7.4	16.5	2.46	18.75	7.36	9.4	2.45
0.8	7.65	9.75	27.72	9	18.87	2.99	22.04	8.49	11.28	2.82
0.9	8.6	10.97	31.36	10.2	21.16	3.39	25.39	9.62	13.25	3.2
1	9.56	12.19	34.98	11.4	23.42	3.79	28.81	10.76	15.3	3.58

Allowable Uniform Load Capacities (KN/m ²)										
Thickness	No. of Spans	Load	Span in Meters							
mm	No's	Case	1	1.25	1.5	1.75	2	2.25	2.5	3
0.40	upto 2 spans	D+L	7.66	4.43	2.56	1.61	1.08	0.76	0.55	0.42
		Uplift	10.74	6.38	3.69	2.32	1.56	1.09	0.80	0.60
	3 or more spans	D+L	9.57	6.12	4.25	3.05	2.04	1.43	1.05	0.79
		Uplift	12.57	8.60	5.97	4.39	2.94	2.06	1.50	1.13
	upto 2 spans	D+L	11.25	6.26	3.62	2.28	1.53	1.07	0.78	0.59
		Uplift	13.66	8.35	4.83	3.04	2.04	1.43	1.04	0.78
0.50	3 or more spans	D+L	14.06	9.00	6.25	4.31	2.88	2.03	1.48	1.11
		Uplift	17.07	10.92	7.59	5.57	3.85	2.70	1.97	1.48
	upto 2 spans	D+L	15.28	8.24	4.77	3.00	2.01	1.41	1.03	0.77
		Uplift	16.60	10.39	6.01	3.79	2.54	1.78	1.30	0.98
	3 or more spans	D+L	19.10	12.22	8.49	5.66	3.79	2.66	1.94	1.46
		Uplift	20.75	13.28	9.22	6.78	4.79	3.36	2.45	1.84
0.60	upto 2 spans	D+L	19.67	10.31	5.97	3.76	2.52	1.77	1.29	0.97
		Uplift	19.57	12.50	7.23	4.55	3.05	2.14	1.56	1.17
	3 or more spans	D+L	24.59	15.74	10.93	7.09	4.75	3.34	2.43	1.83
		Uplift	24.46	15.65	10.87	7.99	5.76	4.04	2.95	2.21
	upto 2 spans	D+L	23.94	12.32	7.13	4.49	3.01	2.11	1.54	1.16
		Uplift	22.58	14.45	8.50	5.35	3.59	2.52	1.84	1.38
0.70	3 or more spans	D+L	29.92	19.15	13.30	8.47	5.67	3.99	2.91	2.18
		Uplift	28.22	18.06	12.54	9.21	6.77	4.75	3.46	2.60
	upto 2 spans	D+L	27.14	13.94	8.06	5.08	3.40	2.39	1.74	1.31
		Uplift	25.59	16.38	9.79	6.17	4.13	2.90	2.12	1.59
	3 or more spans	D+L	33.92	21.71	15.08	9.58	6.42	4.51	3.29	2.47
		Uplift	31.99	20.47	14.22	10.45	7.80	5.47	3.99	3.00
0.80	upto 2 spans	D+L	30.33	15.54	9.00	5.66	3.80	2.67	1.94	1.46
		Uplift	28.61	18.31	11.11	7.00	4.69	3.29	2.40	1.80
	3 or more spans	D+L	37.91	24.26	16.85	10.69	7.16	5.03	3.67	2.75
		Uplift	35.76	22.89	15.89	11.68	8.85	6.21	4.53	3.40
	upto 2 spans	D+L	30.33	15.54	9.00	5.66	3.80	2.67	1.94	1.46
		Uplift	28.61	18.31	11.11	7.00	4.69	3.29	2.40	1.80
0.90	3 or more spans	D+L	37.91	24.26	16.85	10.69	7.16	5.03	3.67	2.75
		Uplift	35.76	22.89	15.89	11.68	8.85	6.21	4.53	3.40
	upto 2 spans	D+L	30.33	15.54	9.00	5.66	3.80	2.67	1.94	1.46
		Uplift	28.61	18.31	11.11	7.00	4.69	3.29	2.40	1.80
	3 or more spans	D+L	37.91	24.26	16.85	10.69	7.16	5.03	3.67	2.75
		Uplift	35.76	22.89	15.89	11.68	8.85	6.21	4.53	3.40

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

2. D+L = Dead + Live Load (Deflection Limitation: Span/180)

3. Wind Uplift (Deflection Limitation: Span/120)