DANA SINGLE SKIN PROFILE SHEETS

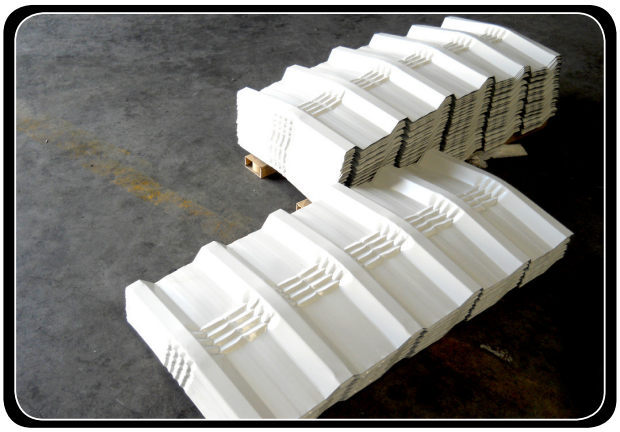
DANA profiled sheets offer architects and designers a range of choices for roof and wall cladding such as internal linings, external cladding and for industrial and commercial buildings. Designed to cinciliate high static characteristic with reduced weight, these sheets guarantee the optimization of the structure's realisation costs while providing safe working platforms.

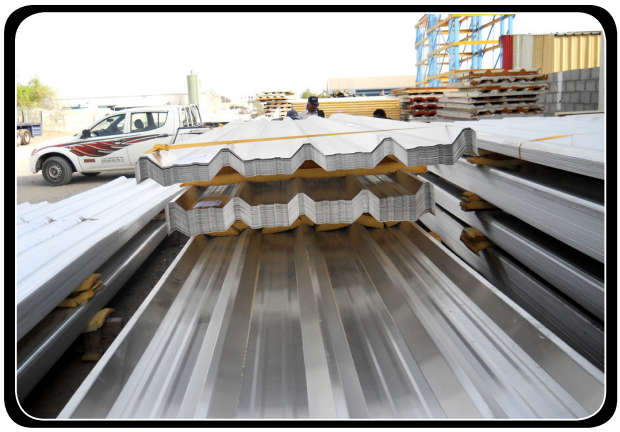
The main advantages of profiled sheets are that:

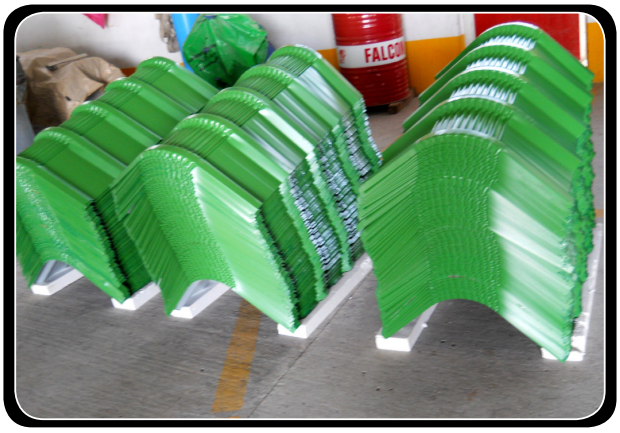
- They are inexpensive
- Allows rapid and rational execution
- Minimum labour required for execution
- Easy to dismantle for building transformations
- Made to site measurement thus eliminating wastage and installation complications
- Modifications or extensions can be done at any time

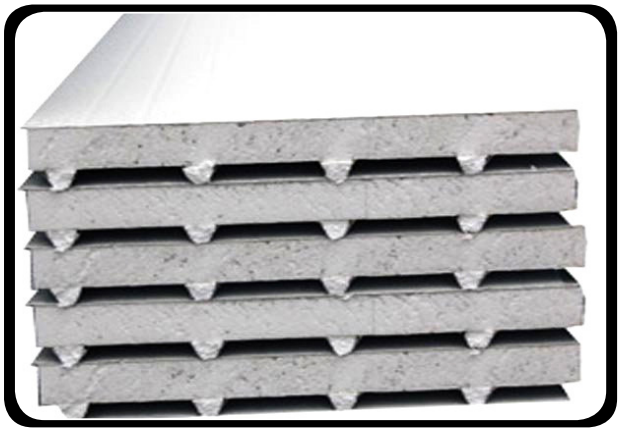
DANA supplies profiled sheets based on chosen customer parameters such as weight, strength, durability, surface finish and color. Our dedicated staffs offer the best possible advice for your profiled sheet requirement.

DANA FACTORY GALLERY



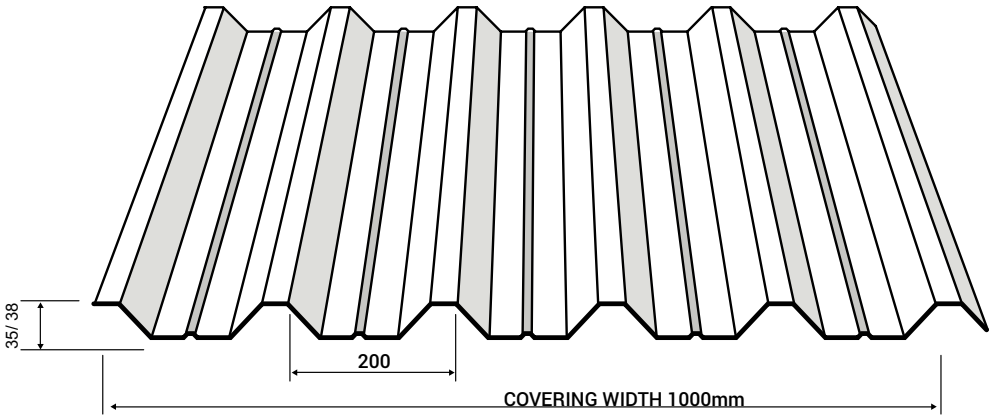






SINGLE SKIN SHEETS

DSS 35(38)/200
Single Skin Sheets



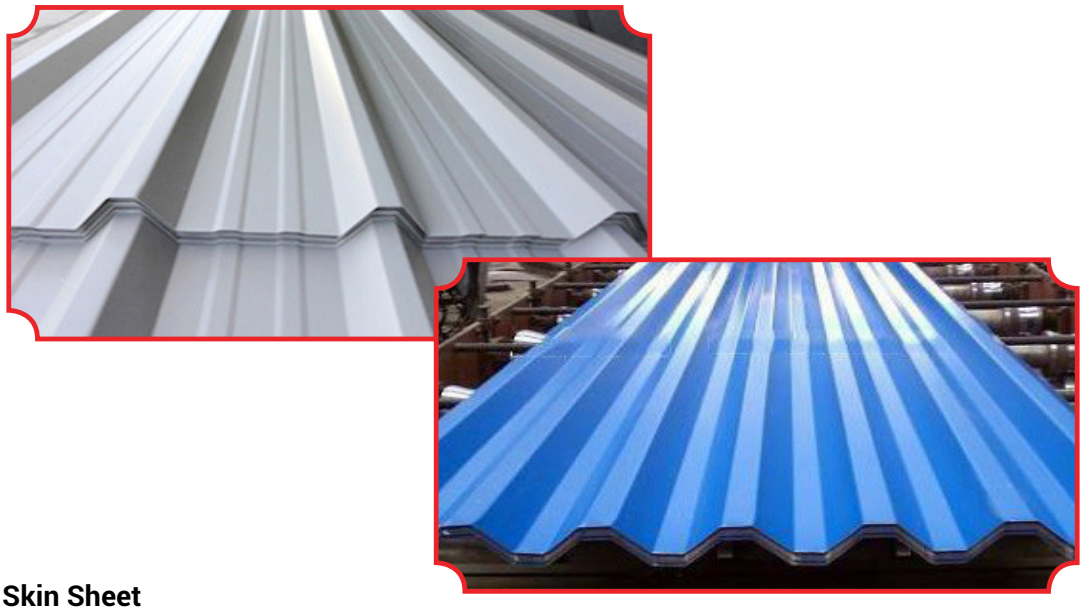
A Aluminium Skin Sheet

Section Properties (For 1 meter of coverage width)

Thickness(t) (in mm)	Area mm^2	Inertia mm^4	Top in Compression		Bottom in Compression	
			Z Top mm^3	Moment Top KN m	Z Bottom mm^3	Moment Bottom KN m
0.5	574	107847	4770	0.55	8366	0.97
0.6	609	129418	5712	0.66	10001	1.15
0.7	804	150992	6649	0.77	11623	1.34
0.8	919	172568	7582	0.87	13253	1.53
0.9	1034	194149	8512	0.98	14831	1.71
1	1148	215734	9438	1.09	16417	1.89

Load Chart (KN / M^2)

Panel Core Thickness (in mm)	Weight Kg/m2	Number of Spans	Purlin Spacing in mm								
			1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
0.5	1.61	Single	2.91	1.49	0.87	0.55	0.37	0.26	0.20	0.17	0.16
		Multi	5.46	2.81	1.63	1.03	0.69	0.49	0.36	0.33	0.32
0.6	1.93	Single	3.49	1.79	1.04	0.66	0.44	0.32	0.23	0.20	0.19
		Multi	6.55	3.37	1.95	1.23	0.83	0.59	0.43	0.40	0.39
0.7	2.25	Single	4.07	2.09	1.21	0.77	0.52	0.30	0.27	0.24	0.23
		Multi	7.64	3.93	2.28	1.44	0.97	0.68	0.50	0.47	0.46
0.8	2.58	Single	4.65	2.38	1.38	0.88	0.59	0.42	0.31	0.28	0.27
		Multi	8.73	4.49	2.60	1.64	1.10	0.78	0.57	0.54	0.53
0.9	2.9	Single	5.23	2.68	1.56	0.98	0.66	0.47	0.34	0.31	0.30
		Multi	9.82	5.05	2.93	1.85	1.24	0.87	0.64	0.61	0.60
1	3.22	Single	5.81	2.98	1.73	1.09	0.73	0.50	0.38	0.35	0.34
		Multi	11	5.61	3.25	2.05	1.38	0.97	0.71	0.68	0.67



B Steel Skin Sheet

Section Properties (For 1 meter of coverage width)

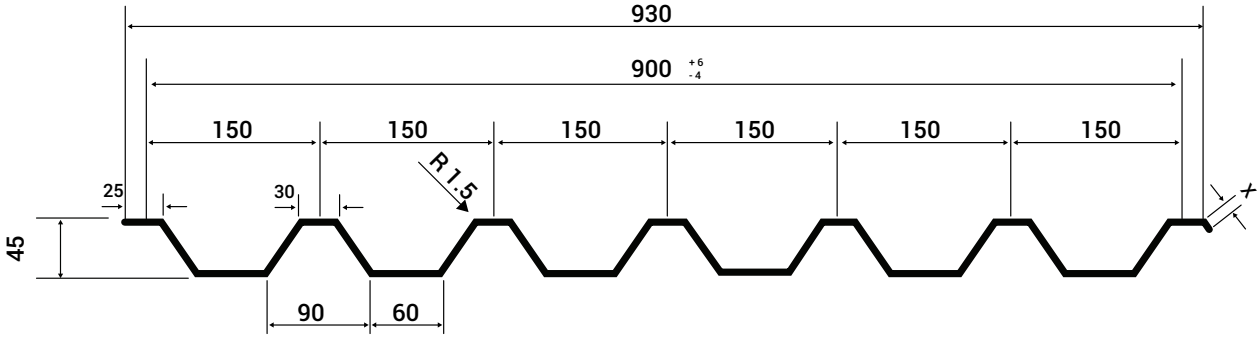
Thickness(t) (in mm)	Area mm^2	Inertia mm^4	Top in Compression		Bottom in Compression	
			Z Top mm^3	Moment Top KN m	Z Bottom mm^3	Moment Bottom KN m
0.5	574	107847	4770	0.81	8366	1.42
0.6	609	129418	5712	0.97	10001	1.70
0.7	804	150992	6649	1.13	11623	1.97
0.8	919	172568	7582	1.29	13253	2.24
0.9	1034	194149	8512	1.44	14831	2.52
1	1148	215734	9438	1.60	16417	2.79

Load Chart (KN / M^2)

Panel Core Thickness (in mm)	Weight Kg/m2	Number of Spans	Purlin Spacing in mm								
			1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
0.5	4.67	Single	6.82	4.36	2.53	1.59	1.07	0.76	0.55	0.45	0.34
		Multi	8.53	5.46	3.80	2.79	2.01	1.42	1.04	0.94	0.85
0.6	5.60	Single	8.10	5.23	3.03	1.91	1.28	0.90	0.66	0.56	0.46
		Multi	10.21	6.54	4.54	3.34	2.41	1.70	1.24	1.14	1
0.7	6.54	Single	9.51	6.09	3.53	2.23	1.50	1.05	1.77	0.67	0.55
		Multi	11.89	7.61	5.29	3.89	2.81	1.98	1.45	1.35	1.2
0.8	7.47	Single	10.84	6.94	4.04	2.54	1.71	1.20	0.88	0.78	0.69
		Multi	13.56	8.68	6.03	4.43	3.21	2.26	1.65	1.55	1.44
0.9	8.40	Single	12.17	7.79	4.54	2.86	1.92	1.35	0.99	0.89	0.8
		Multi	15.22	9.74	6.77	4.97	3.61	2.54	1.86	1.76	1.65
1	9.34	Single	13.49	8.64	5.04	3.18	2.13	1.50	1.10	1	0.8
		Multi	16.87	10.80	7.50	5.51	4.01	2.82	2.06	1.94	1.8

SINGLE SKIN SHEETS

DSS 45/150
Single Skin Sheets



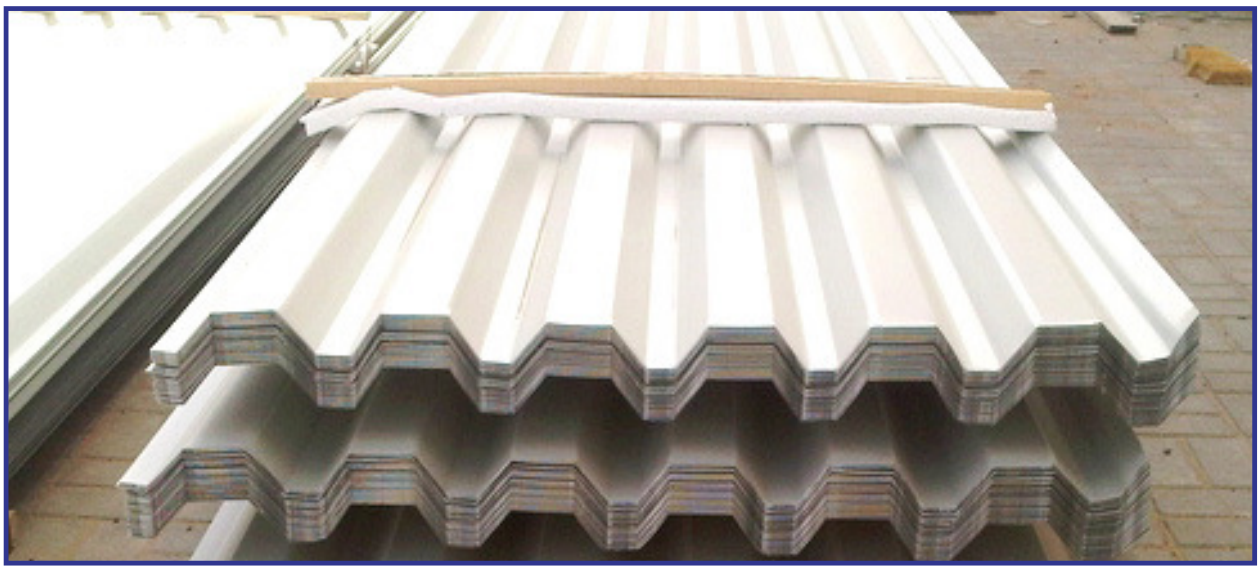
A Aluminium Skin Sheet

Section Properties (For 1 meter of coverage width)

Thickness(t) (in mm)	Area mm^2	Inertia mm^4	Top in Compression		Bottom in Compression	
			Z Top mm^3	Moment Top KN m	Z Bottom mm^3	Moment Bottom KN m
0.5	643	197063	7947	0.92	9519	1.10
0.6	792	236467	9730	1.12	11103	1.28
0.7	900	275869	11306	1.30	12952	1.49
0.8	1029	315272	12832	1.48	1480	1.71
0.9	1157	354676	14505	1.67	16537	1.91
1	1286	394115	16085	1.86	17333	2.11

Load Chart (KN / M^2)

Panel Core Thickness (in mm)	Weight Kg/m2	Number of Spans	Purlin Spacing in mm								
			1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
0.5	1.83	Single	5.31	2.18	1.06	0.57	0.34	0.22	0.15	0.13	0.12
		Multi	9.40	5.13	2.97	1.87	1.26	0.89	0.65	0.63	0.62
0.6	2.20	Single	6.37	2.61	1.27	0.69	0.41	0.26	0.17	0.15	0.14
		Multi	11.50	6.15	3.56	2.25	1.51	1.06	0.78	0.76	0.75
0.7	2.27	Single	7.43	3.05	1.47	0.80	0.47	0.30	0.20	0.18	0.17
		Multi	13.36	7.17	4.15	2.62	1.76	1.24	0.91	0.89	0.88
0.8	2.93	Single	8.48	3.48	1.68	0.91	0.54	0.34	0.23	0.21	0.20
		Multi	15.17	8.20	4.75	2.90	2.01	1.41	1.03	1.01	1
0.9	3.30	Single	9.54	3.92	1.89	1.03	0.61	0.38	0.25	0.23	0.22
		Multi	17.14	9.22	5.34	3.36	2.26	1.59	1.16	1.14	1.13
1	3.67	Single	10.60	4.35	2.10	1.14	0.67	0.42	0.28	0.26	0.25
		Multi	19.01	10.24	5.93	3.74	2.51	1.76	1.29	1.27	1.26



B Steel Skin Sheet

Section Properties (For 1 meter of coverage width)

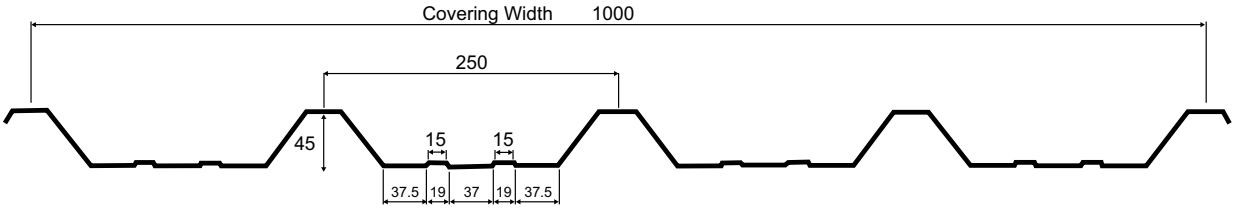
Thickness(t) (in mm)	Area mm^2	Inertia mm^4	Top in Compression		Bottom in Compression	
			Z Top mm^3	Moment Top KN m	Z Bottom mm^3	Moment Bottom KN m
0.5	643	197063	7947	1.35	9519	1.61
0.6	792	236467	9730	1.65	11103	1.88
0.7	900	275869	11306	1.92	12952	2.20
0.8	1029	315272	12832	2.18	1480	2.52
0.9	1157	354676	14505	2.46	16537	2.81
1	1286	394115	16085	2.73	17333	3.11

Load Chart (KN / M^2)

Panel Core Thickness (in mm)	Weight Kg/m2	Number of Spans	Purlin Spacing in mm								
			1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
0.5	5.32	Single	11.36	7.27	4.61	2.90	1.95	1.37	1	0.98	0.97
		Multi	14.21	9.10	6.32	4.64	3.56	2.58	1.88	1.85	1.84
0.6	6.38	Single	13.91	8.90	5.53	3.48	2.34	1.64	1.20	1	0.99
		Multi	17.40	11.13	7.73	5.68	4.35	3.09	2.26	2.22	2.21
0.7	7.44	Single	16.16	10.33	6.44	4.06	2.72	1.92	1.40	1.38	1.37
		Multi	20.21	12.94	8.99	6.60	5.06	3.61	2.63	2.60	2.59
0.8	8.51	Single	18.34	11.74	7.36	4.64	3.11	2.19	1.60	1.54	1.53
		Multi	22.94	14.68	10.20	7.49	5.74	4.12	3.01	2.99	2.98
0.9	9.57	Single	20.73	13.27	8.28	5.22	3.50	2.46	1.80	1.78	1.77
		Multi	25.93	16.59	11.52	8.47	6.49	4.63	3.38	3.36	3.35
1	10.64	Single	22.98	14.71	9.20	5.80	3.89	2.73	2	1.80	1.79
		Multi	28.75	18.40	12.78	9.39	7.19	5.15	3.76	3.74	3.73

SINGLE SKIN SHEETS

DSS 45/250
Single Skin Sheets



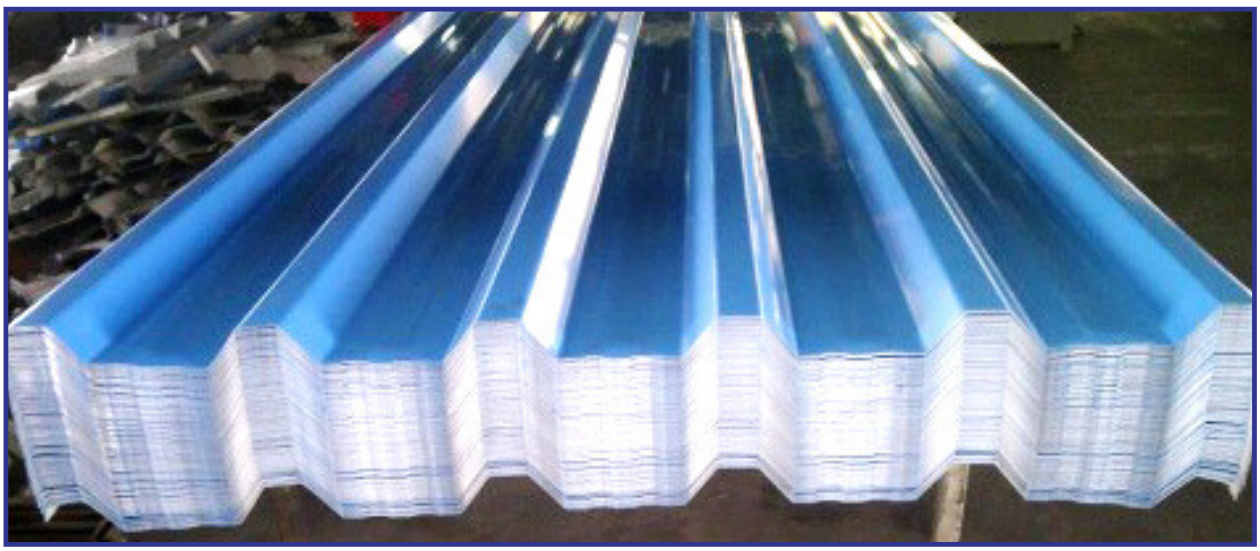
A Aluminium Skin Sheet

Section Properties (For 1 meter of coverage width)

Thickness(t) (in mm)	Area mm^2	Inertia mm^4	Top in Compression		Bottom in Compression	
			Z Top mm^3	Moment Top KN m	Z Bottom mm^3	Moment Bottom KN m
0.5	591	166039	5524	0.64	10753	1.24
0.6	709	199241	6615	0.76	12869	1.48
0.7	827	232444	7705	0.89	14965	1.73
0.8	945	256548	8791	1.01	17048	1.97
0.9	1063	298854	9874	1.14	19117	2.21
1	1181	332062	10953	1.26	21174	2.44

Load Chart (KN / M^2)

Panel Core Thickness (in mm)	Weight Kg/m2	Number of Spans	Purlin Spacing in mm								
			1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
0.5	1.61	Single	4.40	1.84	0.89	0.49	0.27	0.18	0.12	0.09	0.08
		Multi	6.53	4.19	2.50	1.58	1.06	0.75	0.55	0.52	0.51
0.6	1.93	Single	5.37	2.20	1.07	0.58	0.34	0.22	0.15	0.12	0.11
		Multi	7.82	5.01	3	1.89	1.27	0.90	0.66	0.63	0.60
0.7	2.25	Single	6.26	2.57	1.24	0.68	0.40	0.25	0.17	0.12	0.11
		Multi	9.11	5.83	3.50	2.21	1.48	1.04	0.76	0.71	0.70
0.8	2.51	Single	7.15	2.93	1.42	0.71	0.46	0.29	0.19	0.14	0.20
		Multi	10.39	6.65	4	2.52	1.69	1.19	0.87	0.82	0.80
0.9	2.89	Single	8.04	1.50	1.60	0.17	0.51	0.32	0.22	0.17	0.16
		Multi	11.67	7.47	4.50	2.84	1.90	1.34	0.98	0.95	0.94
1	3.21	Single	8.94	3.67	1.77	0.96	0.57	0.36	0.24	0.21	0.20
		Multi	12.95	8.29	5	3.15	2.11	1.49	1.09	1.06	1.05



B Steel Skin Sheet

Section Properties (For 1 meter of coverage width)

Thickness(t) (in mm)	Area mm^2	Inertia mm^4	Top in Compression		Bottom in Compression	
			Z Top mm^3	Moment Top KN m	Z Bottom mm^3	Moment Bottom KN m
0.5	591	166039	5524	0.94	10753	1.82
0.6	709	199241	6615	1.12	12869	2.18
0.7	827	232444	7705	1.31	14965	2.54
0.8	945	256548	8791	1.49	17048	2.89
0.9	1063	298854	9874	1.68	19117	3.24
1	1181	332062	10953	1.86	21174	3.59

Load Chart (KN / M^2)

Panel Core Thickness (in mm)	Weight Kg/m2	Number of Spans	Purlin Spacing in mm								
			1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
0.5	4.67	Single	7.9	5.06	3.52	2.45	1.64	1.16	0.85	0.76	0.69
		Multi	9.88	6.33	4.40	3.23	2.48	1.96	1.59	1.4	1.2
0.6	5.60	Single	9.46	6.06	4.21	2.94	1.97	1.39	1.01	0.98	0.88
		Multi	11.83	7.57	5.26	3.89	2.96	2.33	1.40	1.3	1.12
0.7	6.54	Single	1.07	7.05	4.90	3.42	2.30	1.62	1.18	1.01	0.99
		Multi	13.78	8.82	6.13	4.50	3.45	2.73	2.21	2.11	2.01
0.8	7.47	Single	12.57	8.05	5.59	3.91	2.62	1.85	1.35	1.23	1.13
		Multi	15.72	10.06	6.99	5.14	3.94	3.11	2.52	2.43	2.33
0.9	8.40	Single	14.12	9.04	6.28	4.40	2.95	2.08	1.52	1.43	1.33
		Multi	17.65	11.30	7.85	5.77	4.42	3.49	2.83	2.7	2.6
1	9.34	Single	15.65	10.02	6.90	4.89	3.20	2.30	1.68	1.59	1.44
		Multi	19.58	12.53	8.70	6.40	4.90	3.87	3.14	3.03	2.97