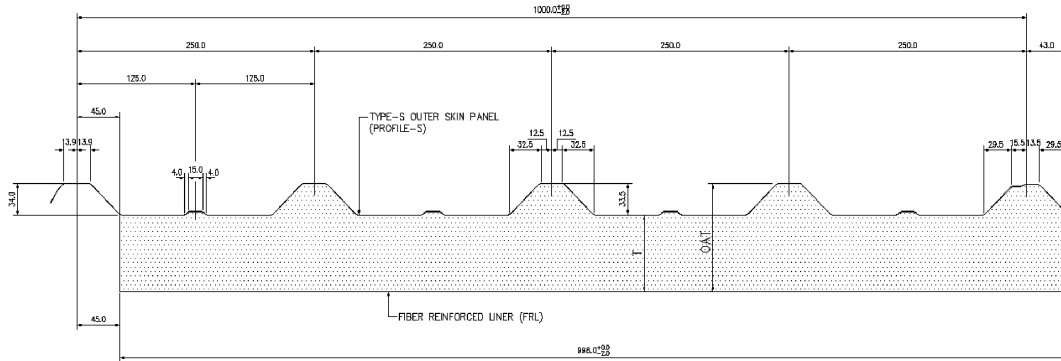


# TCSO Aluminum Panel



## Section Properties

Outer Skin Thickness mm	Weight kg/m <sup>2</sup>	Area cm <sup>2</sup>	Top in Compression				Bottom in Compression				Web Shear & Cripp.	
			Ix cm <sup>4</sup>	Zx-Top cm <sup>3</sup>	Zx-Bott. cm <sup>3</sup>	Ma kN.m	Ix cm <sup>4</sup>	Zx-Top cm <sup>3</sup>	Zx-Bott. cm <sup>3</sup>	Ma kN.m	Va kN	Pa kN
0.50	*	6.09	5.5	1.70	7.40	0.16	5.29	2.42	3.59	0.23	1.63	3.97
0.70	*	8.54	9.74	3.23	11.41	0.31	8.70	3.75	6.32	0.36	5.51	4.96

## Panel Load Table [ kN/m<sup>2</sup> ]

Outer Skin Thickness mm	Number of Spans	Load Case	Span in meters									
			1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.50
0.50	1	D+L	1.28	0.82	0.57	0.42	0.32	0.25	0.20	0.17	0.14	0.10
		WP	1.70	1.09	0.76	0.56	0.43	0.34	0.27	0.23	0.19	0.14
		WS	2.45	1.57	1.09	0.80	0.61	0.48	0.39	0.32	0.26	0.16
	2	D+L	1.84	1.18	0.82	0.60	0.46	0.36	0.29	0.24	0.20	0.15
		WP	2.45	1.57	1.09	0.80	0.61	0.48	0.39	0.32	0.27	0.20
		WS	1.70	1.09	0.76	0.56	0.43	0.34	0.27	0.23	0.19	0.14
	3	D+L	2.30	1.47	1.02	0.75	0.58	0.45	0.37	0.30	0.26	0.19
		WP	2.71	1.96	1.36	1.00	0.77	0.61	0.49	0.41	0.34	0.25
		WS	2.13	1.36	0.95	0.70	0.53	0.42	0.34	0.28	0.24	0.17
0.70	1	D+L	2.48	1.59	1.10	0.81	0.62	0.49	0.40	0.33	0.28	0.20
		WP	3.30	2.11	1.47	1.08	0.82	0.65	0.53	0.44	0.37	0.27
		WS	3.83	2.45	1.70	1.25	0.96	0.76	0.61	0.51	0.43	0.27
	2	D+L	2.88	1.84	1.28	0.94	0.72	0.57	0.46	0.38	0.32	0.24
		WP	3.83	2.45	1.70	1.25	0.96	0.76	0.61	0.51	0.43	0.31
		WS	3.30	2.11	1.47	1.08	0.82	0.65	0.53	0.44	0.37	0.27
	3	D+L	3.60	2.30	1.60	1.18	0.90	0.71	0.58	0.48	0.40	0.29
		WP	4.80	3.07	2.13	1.57	1.20	0.95	0.77	0.63	0.53	0.39
		WS	4.13	2.64	1.84	1.35	1.03	0.82	0.66	0.55	0.46	0.34

Note: D + L = Dead + Live Load ( Deflection limit Span/180 )  
 WP = Wind Pressure ( Deflection limit Span/120 )  
 WS = Wind Suction ( Deflection limit Span/120 )  
 Material conforming to ALLOY 3003 H26 (Fy = 16.15 kN/cm<sup>2</sup>) or equivalent