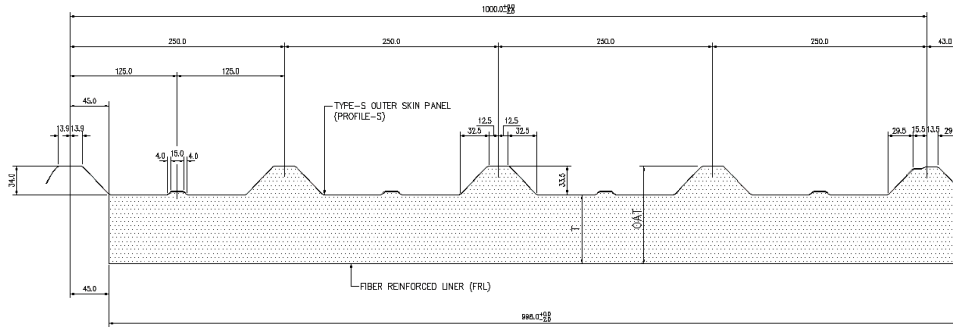


TCSO Steel Panel



Section Properties

Outer Skin Thickness mm	Weight kg/m ²	Area cm ²	Top in Compression				Bottom in Compression				Web Shear & Cripp.	
			Ix cm ⁴	Zx-Top cm ³	Zx-Bott. cm ³	Ma kN.m	Ix cm ⁴	Zx-Top cm ³	Zx-Bott. cm ³	Ma kN.m	Va kN	Pa kN
0.50	*	6.09	5.76	1.93	7.38	0.40	5.52	2.47	3.89	0.51	4.97	3.39
0.70	*	8.54	10.16	3.62	11.35	0.75	9.20	3.84	7.00	0.79	15.83	4.96

Panel Load Table [kN/m²]

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	3.20	2.05	1.42	0.95	0.63	0.44	0.32	0.24	0.19	0.12
		WP	4.26	2.72	1.89	1.39	0.95	0.67	0.49	0.37	0.28	0.18
		WS	5.43	3.47	2.16	1.36	0.91	0.64	0.47	0.35	0.27	0.17
	2	D+L	2.71	2.17	1.81	1.33	1.02	0.81	0.65	0.54	0.45	0.28
		WP	3.59	2.87	2.40	1.77	1.36	1.07	0.87	0.72	0.60	0.43
		WS	4.26	2.72	1.89	1.39	1.06	0.84	0.68	0.56	0.47	0.35
3	D+L	3.08	2.47	2.06	1.67	1.20	0.84	0.61	0.46	0.35	0.22	
	WP	4.10	3.28	2.73	2.22	1.70	1.26	0.92	0.69	0.53	0.33	
	WS	5.33	3.41	2.37	1.74	1.33	1.05	0.85	0.66	0.51	0.32	
0.70	1	D+L	6.00	3.84	2.65	1.67	1.12	0.78	0.57	0.43	0.33	0.21
		WP	7.98	5.11	3.55	2.50	1.68	1.18	0.86	0.64	0.50	0.31
		WS	8.41	5.38	3.60	2.27	1.52	1.07	0.78	0.58	0.45	0.28
	2	D+L	3.96	3.17	2.64	2.06	1.58	1.25	1.01	0.84	0.70	0.50
		WP	5.25	4.20	3.50	2.74	2.10	1.66	1.34	1.11	0.93	0.69
		WS	7.98	5.11	3.55	2.61	2.00	1.58	1.28	1.06	0.89	0.65
3	D+L	4.51	3.61	3.01	2.58	1.98	1.48	1.08	0.81	0.62	0.39	
	WP	6.00	4.80	4.00	3.43	2.63	2.08	1.62	1.22	0.94	0.59	
	WS	10.00	6.40	4.44	3.26	2.50	1.97	1.47	1.10	0.85	0.53	

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 ASTM A792 Grade 50B (Fy = 34.5 kN/cm²) or equivalent