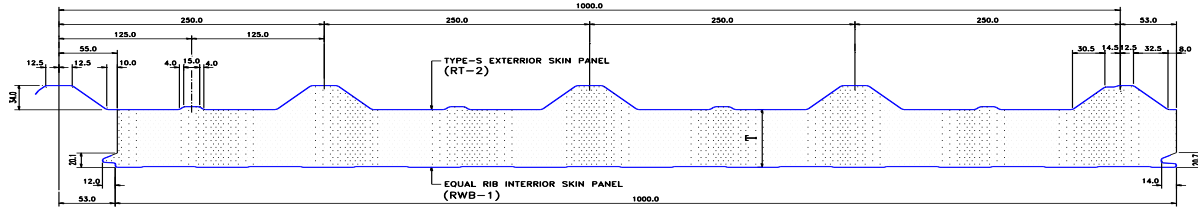


FIRECON-"FCSQ" INSULATED STEEL PANEL (Nominal Thickness T=100 mm)



Section Properties

Skin Thickness (mm)		Weight kg/m ²	Area cm ²	Top in Compression				Bottom in Compression				Web Shear & Cripp.	
Exterior	Interior			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
0.7	0.7	24.41	16	320.72	30.13	68.05	6.22	316.48	45.33	38.47	7.95	6.81	7.98
0.7	0.5	22.73	13.87	265.45	28.91	45.58	5.97	227.40	38.95	23.33	4.82	6.81	6.92
0.5	0.5	20.82	11.43	198.92	18.95	44.17	3.91	198.16	29.39	23.02	4.76	6.63	6.92

Load Table [kN/m²]

Skin Thickness (mm)	Number of Spans	Load Case	Span in meters										
			1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
Ext. 0.7 Int. 0.7	1	D+L	9.07	7.78	6.81	6.05	5.44	4.95	4.54	4.19	3.89	3.54	3.11
		WP	12.07	10.34	9.05	8.05	7.24	6.58	6.03	5.57	5.17	4.71	4.14
		WS	12.62	10.82	9.47	8.41	7.57	6.88	6.31	5.83	5.41	5.05	4.73
	2	D+L	4.26	3.65	3.19	2.84	2.55	2.32	2.13	1.96	1.82	1.70	1.60
		WP	5.66	4.85	4.25	3.77	3.40	3.09	2.83	2.61	2.43	2.26	2.12
		WS	9.65	8.28	7.24	6.44	5.79	5.27	4.83	4.46	4.14	3.86	3.62
	3	D+L	4.84	4.15	3.63	3.22	2.90	2.64	2.42	2.23	2.07	1.93	1.81
		WP	6.43	5.51	4.82	4.29	3.86	3.51	3.22	2.97	2.76	2.57	2.41
		WS	10.06	8.62	7.54	6.70	6.03	5.49	5.03	4.64	4.31	4.02	3.77
Ext. 0.7 Int. 0.5	1	D+L	9.07	7.78	6.81	6.05	5.44	4.95	4.54	4.19	3.89	3.40	2.99
		WP	12.07	10.34	9.05	8.05	7.24	6.58	6.03	5.57	5.17	4.52	3.97
		WS	12.62	10.82	9.47	8.41	7.57	6.78	6.03	5.57	5.17	4.52	3.97
	2	D+L	3.69	3.16	2.77	2.46	2.21	2.01	1.85	1.70	1.58	1.48	1.38
		WP	4.91	4.21	3.68	3.27	2.95	2.68	2.45	2.27	2.10	1.96	1.84
		WS	9.65	8.28	7.24	6.44	5.79	5.27	4.83	4.46	4.14	3.86	3.62
	3	D+L	4.19	3.59	3.15	2.80	2.52	2.29	2.10	1.94	1.80	1.68	1.57
		WP	5.58	4.78	4.18	3.72	3.35	3.04	2.79	2.57	2.39	2.23	2.09
		WS	10.06	8.62	7.54	6.70	6.03	5.49	5.03	4.64	4.31	4.02	3.77
Ext. 0.5 Int. 0.5	1	D+L	8.83	7.57	6.63	5.89	5.01	4.14	3.48	2.96	2.56	2.23	1.96
		WP	11.75	10.07	8.81	7.83	6.66	5.51	4.63	3.94	3.40	2.96	2.60
		WS	12.07	10.35	9.05	8.05	7.24	6.58	5.62	4.79	4.13	3.60	3.16
	2	D+L	3.69	3.16	2.77	2.46	2.21	2.01	1.85	1.70	1.58	1.48	1.38
		WP	4.91	4.21	3.68	3.27	2.95	2.68	2.45	2.27	2.10	1.96	1.84
		WS	9.40	8.06	7.05	6.27	5.64	5.13	4.63	3.94	3.40	2.96	2.60
	3	D+L	4.19	3.59	3.15	2.80	2.52	2.29	2.10	1.94	1.80	1.68	1.57
		WP	5.58	4.78	4.18	3.72	3.35	3.04	2.79	2.57	2.39	2.23	2.09
		WS	9.79	8.39	7.34	6.53	5.87	5.34	4.90	4.52	4.20	3.70	3.25

Note: D + L = Dead + Live Load (Deflection limit Span/180)
 WP = Wind Pressure (Deflection limit Span/120)
 WS = Wind Suction (Deflection limit Span/120)

Outer & Inner panel Material conforming to ASTM A792 Grade 50B (Fy = 34.5 kN/cm²) or equivalent
 Core Material "ROCK WOOL" considered as following

E "Modulus of Elasticity" = 0.285 kN/cm²
 qb Bond Stress = 0.015 kN/cm²
 Density = 110 kg/m³