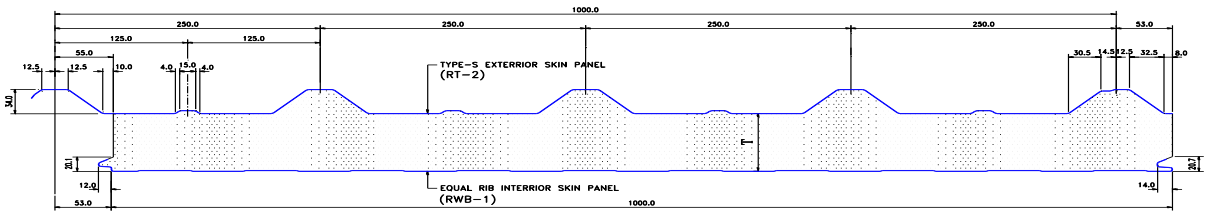
FIRECON-"FCSQ" INSULATED STEEL PANEL
(Nominal Thickness T=75 mm)



Section Properties

Skin Thickness (mm)		Weight	Area	Top in Compression				Bottom in Compression				Web Shear & Cripp.	
				Ix	Zx-Top	Zx-Bott.	Ma	Ix	Zx-Top	Zx-Bott.	Ma	Va	Pa
Exterior	Interior	kg/m2	cm2	cm4	cm3	cm3	kN.m	cm4	cm3	cm3	kN.m	kN	kN
0.7	0.7	21.66	16	198.56	22.76	53.26	4.70	196.18	32.27	31.56	6.52	5.33	7.98
0.7	0.5	19.98	13.87	164.11	21.64	35.80	4.47	146.17	27.84	20.04	4.14	5.33	6.92
0.5	0.5	18.07	11.43	120.26	13.79	34.41	2.85	125.82	21.11	19.63	4.06	5.16	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*	*7.10*	*6.09*	*5.33*	*4.73*	*4.26*	*3.87*	*3.55*	*3.28*	*3.04*	*2.67*	*2.35*
		WP	9.45	8.10	7.08	6.30	5.67	5.15	4.72	4.36	4.05	3.56	3.13
		WS	9.89	8.48	7.42	6.60	5.94	5.40	4.95	4.57	4.24	3.96	3.71
	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	7.56	6.48	5.67	5.04	4.53	4.12	3.78	3.49	3.24	3.02	2.83
	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	7.87	6.75	5.90	5.25	4.72	4.29	3.94	3.63	3.37	3.15	2.95
Ext. 0.7 Int. 0.5	1	*D+L*	*7.10*	*6.09*	*5.33*	*4.73*	*4.26*	*3.87*	*3.55*	*3.28*	*2.92*	*2.54*	*2.22*
		WP	9.45	8.10	7.08	6.30	5.67	5.15	4.72	4.36	3.88	3.38	2.97
		WS	9.89	8.48	7.42	6.60	5.94	5.40	4.89	4.17	3.60	3.13	2.75
	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	7.56	6.48	5.67	5.04	4.53	4.12	3.78	3.49	3.24	3.02	2.83
	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	7.87	6.75	5.90	5.25	4.72	4.29	3.94	3.63	3.37	3.15	2.95
Ext. 0.5 Int. 0.5	1	*D+L*	*6.88*	*5.90*	*5.16*	*4.50*	*3.65*	*3.01*	*2.53*	*2.16*	*1.86*	*1.62*	*1.42*
		WP	9.15	7.85	6.87	5.99	4.85	4.01	3.37	2.87	2.47	2.16	1.89
		WS	9.52	8.16	7.14	6.35	5.71	5.19	4.76	4.09	3.52	3.07	2.55
	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	7.32	6.28	5.49	4.88	4.39	3.99	3.37	2.87	2.47	2.16	1.89
	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	7.63	6.54	5.72	5.09	4.58	4.16	3.81	3.52	3.09	2.69	2.37

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