

Britmet Tileform Ltd

Tactray 90 Perforated Structural Liner Tray Load / Span Tables

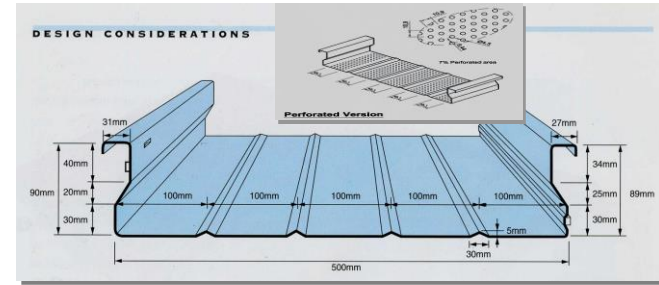
Thickness mm	Weight Kg/m ²
0.75	8.83
1.00	11.78
1.25	14.72
1.50	17.35



Tables calculated & assessed by the SCI to Eurocode-EN1993-1-2:2006



Tray Perforations
15% Void Pattern
7% Overall Tray
Perf Strip 48.1mm Wide



Load factor (working load to ultimate) = 1.5

Bearing - Minimum 65mm

Tables indicate total load carrying capacity of tray kN/m² - Tables do not include self weight of tray

Working Load UDL (kN/m ²) - Gravity		Deflection L/150 Consider when Tactray 90 is supporting metal wall cladding products																									
Thickness (mm)	Span Condition	Span (M)																									
		1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60
0.75	Single	1.97	1.75	1.58	1.43	1.31	1.21	1.13	1.05	0.99	0.93	0.88	0.79	0.70	0.62	0.56	0.50	0.46	0.41	0.38	0.35	0.32	0.29	0.27	0.25	0.23	0.22
1.00	Single	3.56	3.16	2.85	2.59	2.37	2.19	2.03	1.90	1.78	1.67	1.58	1.50	1.41	1.27	1.16	1.06	0.97	0.89	0.81	0.74	0.67	0.62	0.56	0.52	0.48	0.44
1.25	Single	5.57	4.96	4.46	4.05	3.72	3.43	3.19	2.97	2.79	2.62	2.40	2.15	1.94	1.76	1.60	1.47	1.35	1.23	1.14	1.05	0.97	0.90	0.84	0.77	0.70	0.64
1.50	Single	8.01	7.12	6.41	5.82	5.34	4.93	4.58	4.27	3.92	3.47	3.10	2.78	2.50	2.26	2.06	1.88	1.72	1.58	1.46	1.35	1.25	1.14	1.03	0.93	0.85	0.77
0.75	Double	1.86	1.57	1.35	1.17	1.02	0.90	0.80	0.72	0.65	0.59	0.54	0.49	0.45	0.42	0.39	0.36	0.33	0.31	0.29	0.27	0.26	0.24	0.23	0.21	0.20	0.19
1.00	Double	3.27	2.76	2.36	2.05	1.79	1.58	1.41	1.27	1.14	1.04	0.94	0.86	0.79	0.73	0.68	0.63	0.59	0.55	0.51	0.48	0.45	0.42	0.40	0.38	0.36	0.34
1.25	Double	4.91	4.13	3.54	3.06	2.68	2.37	2.11	1.89	1.70	1.54	1.41	1.29	1.18	1.09	1.01	0.93	0.87	0.81	0.76	0.71	0.67	0.63	0.59	0.56	0.53	0.50
1.50	Double	6.72	5.65	4.83	4.17	3.65	3.22	2.86	2.56	2.31	2.09	1.90	1.74	1.60	1.47	1.36	1.26	1.17	1.09	1.02	0.96	0.90	0.84	0.79	0.75	0.71	0.67
0.75	Multi	2.20	1.86	1.60	1.39	1.22	1.08	0.96	0.87	0.78	0.71	0.65	0.59	0.55	0.51	0.47	0.43	0.40	0.38	0.35	0.33	0.31	0.29	0.28	0.26	0.25	0.24
1.00	Multi	3.86	3.27	2.81	2.44	2.14	1.90	1.69	1.52	1.37	1.25	1.14	1.04	0.96	0.89	0.82	0.76	0.71	0.66	0.62	0.58	0.55	0.52	0.49	0.46	0.44	0.41
1.25	Multi	5.81	4.91	4.21	3.65	3.20	2.83	2.53	2.27	2.05	1.86	1.70	1.55	1.43	1.32	1.22	1.13	1.05	0.98	0.92	0.86	0.81	0.76	0.72	0.68	0.64	0.61
1.50	Multi	7.97	6.72	5.75	4.99	4.37	3.86	3.44	3.08	2.78	2.52	2.30	2.10	1.93	1.78	1.65	1.53	1.42	1.33	1.24	1.16	1.09	1.03	0.97	0.92	0.87	0.82

Working Load UDL (kN/m ²) - Uplift		Deflection L/150 Consider when Tactray 90 is supporting metal wall cladding products																									
Thickness (mm)	Span Condition	Span (M)																									
		1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60
0.75	Single	1.97	1.75	1.58	1.43	1.31	1.21	1.13	0.99	0.87	0.77	0.68	0.61	0.55	0.50	0.46	0.42	0.39	0.35	0.33	0.30	0.28	0.26	0.25	0.23	0.22	0.20
1.00	Single	3.56	3.16	2.85	2.59	2.37	2.19	1.99	1.73	1.52	1.35	1.20	1.08	0.97	0.88	0.80	0.74	0.68	0.62	0.58	0.53	0.50	0.46	0.42	0.38	0.34	0.31
1.25	Single	5.57	4.96	4.46	4.05	3.72	3.37	2.91	2.53	2.23	1.97	1.76	1.58	1.42	1.29	1.18	1.08	0.99	0.91	0.84	0.76	0.68	0.61	0.55	0.50	0.46	0.41
1.50	Single	8.01	7.12	6.41	5.82	5.23	4.46	3.84	3.35	2.94	2.61	2.33	2.09	1.88	1.71	1.56	1.42	1.31	1.19	1.05	0.94	0.84	0.76	0.69	0.62	0.57	0.52
0.75	Double	2.23	1.91	1.65	1.44	1.27	1.12	0.99	0.88	0.78	0.70	0.64	0.58	0.52	0.48	0.44	0.41	0.37	0.35	0.32	0.30	0.28	0.26	0.24	0.23	0.22	0.2
1.00	Double	3.8	3.24	2.8	2.45	2.16	1.92	1.72	1.55	1.41	1.28	1.18	1.08	1.00	0.92	0.85	0.79	0.74	0.69	0.65	0.60	0.56	0.52	0.48	0.45	0.42	0.40
1.25	Double	5.57	4.74	4.09	3.57	3.14	2.79	2.5	2.25	2.04	1.86	1.70	1.56	1.44	1.33	1.23	1.15	1.07	1.00	0.93	0.87	0.82	0.77	0.72	0.68	0.65	0.61
1.50	Double	7.49	6.37	5.49	4.79	4.22	3.75	3.36	3.02	2.73	2.49	2.27	2.08	1.92	1.77	1.64	1.52	1.41	1.32	1.23	1.15	1.08	1.02	0.96	0.90	0.86	0.81
0.75	Multi	2.61	2.24	1.94	1.70	1.50	1.32	1.17	1.04	0.93	0.84	0.76	0.69	0.63	0.58	0.53	0.49	0.45	0.42	0.39	0.36	0.34	0.32	0.30	0.28	0.26	0.25
1.00	Multi	4.45	3.81	3.30	2.89	2.56	2.28	2.05	1.85	1.68	1.53	1.40	1.29	1.19	1.10	1.03	0.96	0.89	0.83	0.78	0.72	0.67	0.63	0.59	0.55	0.51	0.48
1.25	Multi	6.55	5.58	4.83	4.22	3.73	3.32	2.98	2.68	2.43	2.22	2.03	1.87	1.72	1.60	1.48	1.38	1.29	1.20	1.12	1.05	0.99	0.93	0.88	0.83	0.76	0.69
1.50	Multi	8.83	7.53	6.51	5.69	5.02	4.47	4.01	3.61	3.27	2.98	2.73	2.50	2.30	2.13	1.97	1.83	1.71	1.59	1.49	1.40	1.31	1.24	1.14	1.04	0.94	0.86

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