

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

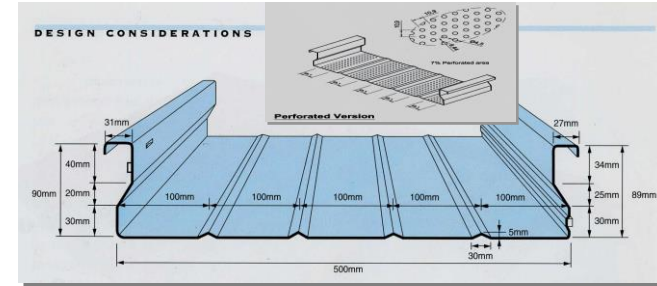


Tables calculated & assessed
by the SCI to
Eurocode-EN1993-1-2:2006



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/m²) - Gravity Deflection L/300 Consider when Tactray 90 is supporting slates and tiles

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	0.37	0.33	0.29	0.26	0.24	0.22	0.20	0.18
1.00	Single	3.56	3.16	2.85	2.59	2.37	2.19	2.03	1.90	1.78	1.67	1.54	1.31	1.13	0.98	0.85	0.75	0.66	0.58	0.52	0.46	0.41	0.37	0.34	0.31	0.28	0.25
1.25	Single	5.57	4.96	4.46	4.05	3.72	3.43	3.19	2.97	2.76	2.3	1.95	1.66	1.42	1.23	1.07	0.94	0.83	0.74	0.65	0.58	0.52	0.47	0.43	0.39	0.35	0.32
1.50	Single	8.01	7.12	6.41	5.82	5.34	4.93	4.58	4.10	3.38	2.82	2.37	2.02	1.73	1.50	1.30	1.14	1.00	0.89	0.79	0.70	0.63	0.57	0.51	0.47	0.42	0.39
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	0.64
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	0.71	0.64	0.58	0.53
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	1.05	0.95	0.86	0.78	0.71	0.64

Working Load UDL (kN/m²) - Uplift Deflection L/300 Consider when Tactray 90 is supporting slates and tiles

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	0.66	0.57	0.48	0.42	0.36	0.32	0.28	0.25	0.22	0.20	0.18	0.16	0.14	0.13	0.12	0.11
1.00	Single	3.56	3.16	2.85	2.59	2.37	2.19	1.99	1.67	1.38	1.15	0.97	0.82	0.71	0.61	0.53	0.46	0.41	0.36	0.32	0.29	0.26	0.23	0.21	0.19	0.17	0.16
1.25	Single	5.57	4.96	4.46	4.05	3.72	3.37	2.72	2.21	1.82	1.52	1.28	1.09	0.93	0.81	0.70	0.61	0.54	0.48	0.42	0.38	0.34	0.31	0.28	0.25	0.23	0.21
1.50	Single	8.01	7.12	6.41	5.82	5.23	4.22	3.38	2.75	2.26	1.89	1.59	1.35	1.16	1.00	0.87	0.76	0.67	0.59	0.53	0.47	0.42	0.38	0.34	0.31	0.28	0.26
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	0.22	0.20	0.18
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	0.77	0.68	0.6	0.54	0.48	0.43	0.39	0.35	0.32	0.29	0.26
1.25	Double	5.57	4.74	4.09	3.57	3.14	2.79	2.50	2.25	2.04	1.86	1.70	1.56	1.44	1.33	1.17	1.02	0.90	0.80	0.71	0.63	0.57	0.51	0.46	0.42	0.38	0.35
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	1.67	1.45	1.27	1.12	0.99	0.88	0.78	0.70	0.63	0.57	0.52	0.47	0.43
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	0.41	0.37	0.33	0.29	0.26	0.24	0.22	0.20	0.18
1.00	Multi	4.45	3.81	3.3	2.89	2.56	2.28	2.05	1.85	1.68	1.53	1.40	1.29	1.18	1.02	0.88	0.77	0.68	0.60	0.54	0.48	0.43	0.39	0.35	0.32	0.29	0.26
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	1.81	1.55	1.34	1.17	1.02	0.90	0.80	0.71	0.63	0.57	0.51	0.46	0.42	0.38	0.35
1.50	Multi	8.83	7.53	6.51	5.69	5.02	4.47	4.01	3.61	3.27	2.98	2.65	2.25	1.93	1.67	1.45	1.27	1.12	0.99	0.88	0.78	0.70	0.63	0.57	0.52	0.47	0.43

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