

# Britmet Tileform Ltd

## Tactray 90 Perforated Structural Liner Tray Load / Span Tables

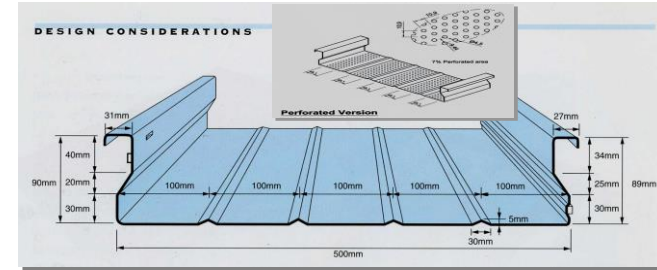
Thickness mm	Weight Kg/m <sup>2</sup>
0.75	8.83
1.00	11.78
1.25	14.72
1.50	17.35



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/m<sup>2</sup> - Tables do not include self weight of tray

### Working Load UDL (kN/m<sup>2</sup>) - Gravity Deflection L/200 ..... Consider when Tactray 90 is supporting metal or single ply membrane roofing 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						
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	0.87	0.78	0.69	0.62						
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	1.41	1.25	1.10	0.98	0.88	0.78						
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	2.25	1.95	1.71	1.51	1.33	1.18	1.06	0.95	0.85	0.77	0.70	0.64	0.58	
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<sup>2</sup>) - Uplift Deflection L/200..... Consider when Tactray 90 is supporting metal or single ply membrane roofing 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	0.26	0.24	0.22	0.20	0.18	0.16	
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	0.70	0.61	0.54	0.48	0.43	0.39	0.35	0.31	0.28	0.26	0.24	
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	1.40	1.21	1.05	0.92	0.81	0.72	0.64	0.57	0.51	0.46	0.41	0.38	0.34	0.31	
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	2.03	1.74	1.50	1.31	1.14	1.01	0.89	0.79	0.71	0.63	0.57	0.51	0.47	0.42	0.39	
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	0.20	
1.00	Double	3.80	3.24	2.80	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	0.39	
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	1.23	1.15	1.07	1.00	0.93	0.87	0.82	0.76	0.69	0.63	0.57	0.52	
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	1.06	0.95	0.86	0.78	0.71	0.64	
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	3.3	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	0.64	0.58	0.52	0.47	0.43	0.39	
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	1.19	1.06	0.95	0.85	0.76	0.69	0.63	0.57	0.52	
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	1.68	1.48	1.32	1.18	1.06	0.95	0.86	0.78	0.71	0.64	

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