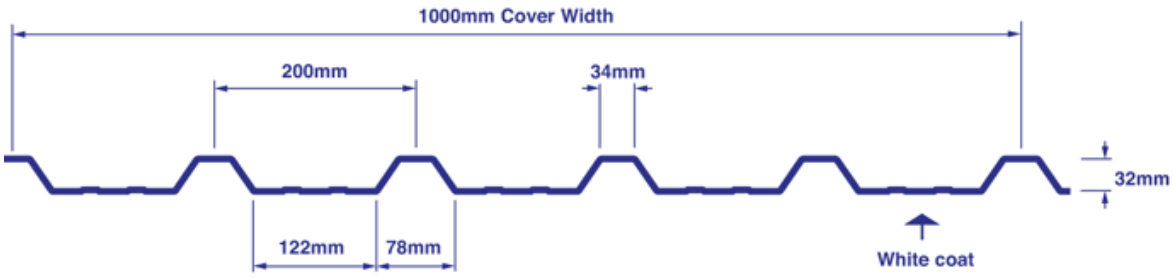
Roofing Cladding Normal Profile Load Tables Proliner 1000/32 (0.5mm)



The Span Tables below have been created in accordance with EN 1993-1-3 (Eurocode EC3) and calculated by the Steel Construction Institute (SCI). The values are based on a maximum permitted deflection of Span/200 under imposed load.

Load factor (working load to ultimate)	1.5 (in accordance with Eurocode).
Deflection for limit of span	L/200

GRAVITY parameters	**0.5mm**
Bottom flange in compression	
Moment capacity (kNm/m)	0.824
Inertia (cm^4/m)	7.288
Bottom flange in tension	
Moment capacity (kNm/m)	0.699
Inertia (cm^4/m)	7.31
Shear resistance (kN/m)	19.953
Web crushing mid (kN/m)	4.903
Web crushing end (kN/m)	2.452
Inertia gross section (cm^4/m)	8.596

Proliner 1000/32 - 0.5mm — Span/Load Table - GRAVITY - Working load UDL (kN/m^2)

GRAVITY		Span in Metres												
Span Type	**Design Case**	**1.0**	**1.1**	**1.2**	**1.3**	**1.4**	**1.5**	**1.6**	**1.7**	**1.8**	**1.9**	**2.0**	**2.1**	**2.2**
Single	Moment	3.73	3.08	2.59	2.21	1.90	1.66	1.46	1.29	1.15	1.03	0.93	0.85	0.77
	Inertia	6.24	4.69	3.61	2.84	2.27	1.85	1.52	1.27	1.07	0.91	0.78	0.67	0.59
	Reaction	3.27	2.97	2.72	2.51	2.34	2.18	2.04	1.92	1.82	1.72	1.63	1.56	1.49
	Limiting	**3.27**	**2.97**	**2.59**	**2.21**	**1.90**	**1.66**	**1.46**	**1.27**	**1.07**	**0.91**	**0.78**	**0.67**	**0.59**
Double	Moment	4.39	3.63	3.05	2.60	2.24	1.95	1.72	1.52	1.36	1.22	1.10	1.00	0.91
	Inertia	10.40	7.81	6.02	4.73	3.79	3.08	2.54	2.12	1.78	1.52	1.30	1.12	0.98
	Reaction	2.61	2.38	2.18	2.01	1.87	1.74	1.63	1.54	1.45	1.38	1.31	1.25	1.19
	Interaction	2.05	1.80	1.59	1.42	1.27	1.15	1.05	0.96	0.88	0.81	0.75	0.69	0.64
	Limiting	**2.05**	**1.80**	**1.59**	**1.42**	**1.27**	**1.15**	**1.05**	**0.96**	**0.88**	**0.81**	**0.75**	**0.69**	**0.64**
Multiple	Moment	5.49	4.54	3.81	3.25	2.80	2.44	2.15	1.90	1.70	1.52	1.37	1.25	1.13
	Inertia	10.40	7.81	6.02	4.73	3.79	3.08	2.54	2.12	1.78	1.52	1.30	1.12	0.98
	Reaction	2.97	2.70	2.48	2.29	2.12	1.98	1.86	1.75	1.65	1.56	1.49	1.42	1.35
	Interaction	2.41	2.12	1.88	1.68	1.51	1.37	1.24	1.14	1.05	0.96	0.89	0.83	0.77
	Limiting	**2.41**	**2.12**	**1.88**	**1.68**	**1.51**	**1.37**	**1.24**	**1.14**	**1.05**	**0.96**	**0.89**	**0.83**	**0.77**

Proliner 1000/32 - 0.5mm — Span/Load Table - UPLIFT - Working load UDL (kN/m^2)

UPLIFT		Span in Metres												
Span Type	**Design Case**	**1.0**	**1.1**	**1.2**	**1.3**	**1.4**	**1.5**	**1.6**	**1.7**	**1.8**	**1.9**	**2.0**	**2.1**	**2.2**
Single	Moment	4.39	3.63	3.05	2.60	2.24	1.95	1.72	1.52	1.36	1.22	1.10	1.00	0.91
	Inertia	6.23	4.68	3.60	2.84	2.27	1.85	1.52	1.27	1.07	0.91	0.78	0.67	0.58
	Reaction	3.27	2.97	2.72	2.51	2.34	2.18	2.04	1.92	1.82	1.72	1.63	1.56	1.49
	Limiting	**3.27**	**2.97**	**2.72**	**2.51**	**2.24**	**1.85**	**1.52**	**1.27**	**1.07**	**0.91**	**0.78**	**0.67**	**0.58**
Double	Moment	3.73	3.08	2.59	2.21	1.90	1.66	1.46	1.29	1.15	1.03	0.93	0.85	0.77
	Inertia	10.38	7.80	6.01	4.73	3.78	3.08	2.53	2.11	1.78	1.51	1.30	1.12	0.97
	Reaction	2.61	2.38	2.18	2.01	1.87	1.74	1.63	1.54	1.45	1.38	1.31	1.25	1.19
	Interaction	1.92	1.68	1.48	1.32	1.18	1.06	0.96	0.88	0.80	0.74	0.68	0.63	0.58
	Limiting	**1.92**	**1.68**	**1.48**	**1.32**	**1.18**	**1.06**	**0.96**	**0.88**	**0.80**	**0.74**	**0.68**	**0.63**	**0.58**
Multiple	Moment	4.66	3.85	3.24	2.76	2.38	2.07	1.82	1.61	1.44	1.29	1.17	1.06	0.96
	Inertia	10.38	7.80	6.01	4.73	3.78	3.08	2.53	2.11	1.78	1.51	1.30	1.12	0.97
	Reaction	2.97	2.70	2.48	2.29	2.12	1.98	1.86	1.75	1.65	1.56	1.49	1.42	1.35
	Interaction	2.27	1.98	1.75	1.56	1.40	1.27	1.15	1.05	0.96	0.88	0.82	0.76	0.70
	Limiting	**2.27**	**1.98**	**1.75**	**1.56**	**1.40**	**1.27**	**1.15**	**1.05**	**0.96**	**0.88**	**0.82**	**0.76**	**0.70**

'SCI Assessed Quality Mark'. This mark testifies that the Steel Construction Institute (SCI) has independently verified the technical data above.