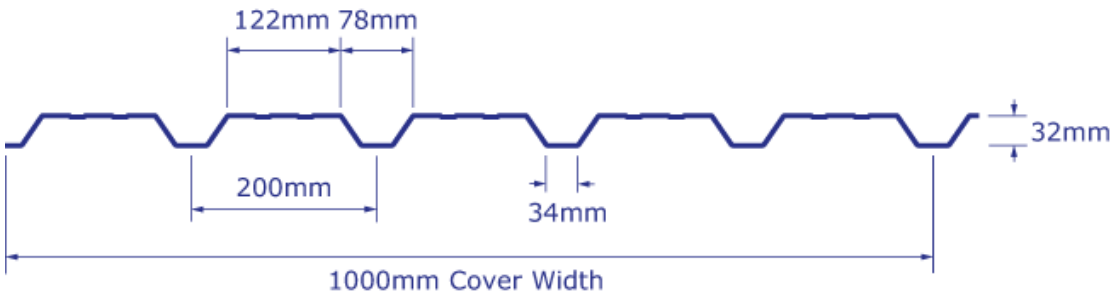
1000/32 Prodeck Roof Decking Load Table (0.9mm)



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	**0.9mm**
Bottom flange in compression	
Moment capacity (kNm/m)	1.989
Inertia (cm^4/m)	15.687
Bottom flange in tension	
Moment capacity (kNm/m)	2.031
Inertia (cm^4/m)	15.386
Shear resistance (kN/m)	54.236
Web crushing mid (kN/m)	18.221
Web crushing end (kN/m)	9.11
Inertia gross section (cm^4/m)	16.075

Prodeck 1000/32 - 0.9mm — 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	10.83	8.95	7.52	6.41	5.53	4.81	4.23	3.75	3.34	3.00	2.71	2.46	2.24
	Inertia	12.59	9.46	7.29	5.73	4.59	3.73	3.07	2.56	2.16	1.84	1.57	1.36	1.18
	Reaction	12.15	11.04	10.12	9.34	8.68	8.10	7.59	7.15	6.75	6.39	6.07	5.78	5.52
	Limiting	**10.83**	**8.95**	**7.29**	**5.73**	**4.59**	**3.73**	**3.07**	**2.56**	**2.16**	**1.84**	**1.57**	**1.36**	**1.18**
Double	Moment	10.61	8.77	7.37	6.28	5.41	4.71	4.14	3.67	3.27	2.94	2.65	2.41	2.19
	Inertia	20.99	15.77	12.15	9.55	7.65	6.22	5.12	4.27	3.60	3.06	2.62	2.27	1.97
	Reaction	9.72	8.83	8.10	7.48	6.94	6.48	6.07	5.72	5.40	5.11	4.86	4.63	4.42
	Interaction	6.34	5.50	4.82	4.26	3.80	3.41	3.08	2.79	2.55	2.33	2.14	1.98	1.83
	Limiting	**6.34**	**5.50**	**4.82**	**4.26**	**3.80**	**3.41**	**3.08**	**2.79**	**2.55**	**2.33**	**2.14**	**1.98**	**1.83**
Multiple	Moment	13.26	10.96	9.21	7.85	6.77	5.89	5.18	4.59	4.09	3.67	3.32	3.01	2.74
	Inertia	20.99	15.77	12.15	9.55	7.65	6.22	5.12	4.27	3.60	3.06	2.62	2.27	1.97
	Reaction	11.04	10.04	9.20	8.49	7.89	7.36	6.90	6.50	6.14	5.81	5.52	5.26	5.02
	Interaction	7.53	6.55	5.75	5.10	4.55	4.09	3.70	3.36	3.07	2.81	2.59	2.39	2.22
	Limiting	**7.53**	**6.55**	**5.75**	**5.10**	**4.55**	**4.09**	**3.70**	**3.36**	**3.07**	**2.81**	**2.59**	**2.27**	**1.97**

Prodeck 1000/32 - 0.9mm — 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	10.61	8.77	7.37	6.28	5.41	4.71	4.14	3.67	3.27	2.94	2.65	2.41	2.19
	Inertia	12.75	9.58	7.38	5.81	4.65	3.78	3.11	2.60	2.19	1.86	1.59	1.38	1.20
	Reaction	12.15	11.04	10.12	9.34	8.68	8.10	7.59	7.15	6.75	6.39	6.07	5.78	5.52
	Limiting	**10.61**	**8.77**	**7.37**	**5.81**	**4.65**	**3.78**	**3.11**	**2.60**	**2.19**	**1.86**	**1.59**	**1.38**	**1.20**
Double	Moment	10.83	8.95	7.52	6.41	5.53	4.81	4.23	3.75	3.34	3.00	2.71	2.46	2.24
	Inertia	21.26	15.97	12.30	9.68	7.75	6.30	5.19	4.33	3.64	3.10	2.66	2.30	2.00
	Reaction	9.72	8.83	8.10	7.48	6.94	6.48	6.07	5.72	5.40	5.11	4.86	4.63	4.42
	Interaction	6.40	5.56	4.87	4.31	3.85	3.45	3.12	2.83	2.58	2.36	2.17	2.01	1.86
	Limiting	**6.40**	**5.56**	**4.87**	**4.31**	**3.85**	**3.45**	**3.12**	**2.83**	**2.58**	**2.36**	**2.17**	**2.01**	**1.86**
Multiple	Moment	13.54	11.19	9.40	8.01	6.91	6.02	5.29	4.69	4.18	3.75	3.39	3.07	2.80
	Inertia	21.26	15.97	12.30	9.68	7.75	6.30	5.19	4.33	3.64	3.10	2.66	2.30	2.00
	Reaction	11.04	10.04	9.20	8.49	7.89	7.36	6.90	6.50	6.14	5.81	5.52	5.26	5.02
	Interaction	7.60	6.61	5.81	5.15	4.60	4.14	3.74	3.40	3.11	2.85	2.62	2.42	2.25
	Limiting	**7.60**	**6.61**	**5.81**	**5.15**	**4.60**	**4.14**	**3.74**	**3.40**	**3.11**	**2.85**	**2.62**	**2.30**	**2.00**

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

1000/32 0.7mm Roof Decking Load Table
1000/32 0.75mm Roof Decking Load Table
1000/32 1.2mm Roof Decking Load Table
800/66 0.7mm Roof Decking Load Table
800/66 0.75mm Roof Decking Load Table
800/66 0.9mm Roof Decking Load Table
800/66 1.2mm Roof Decking Load Table