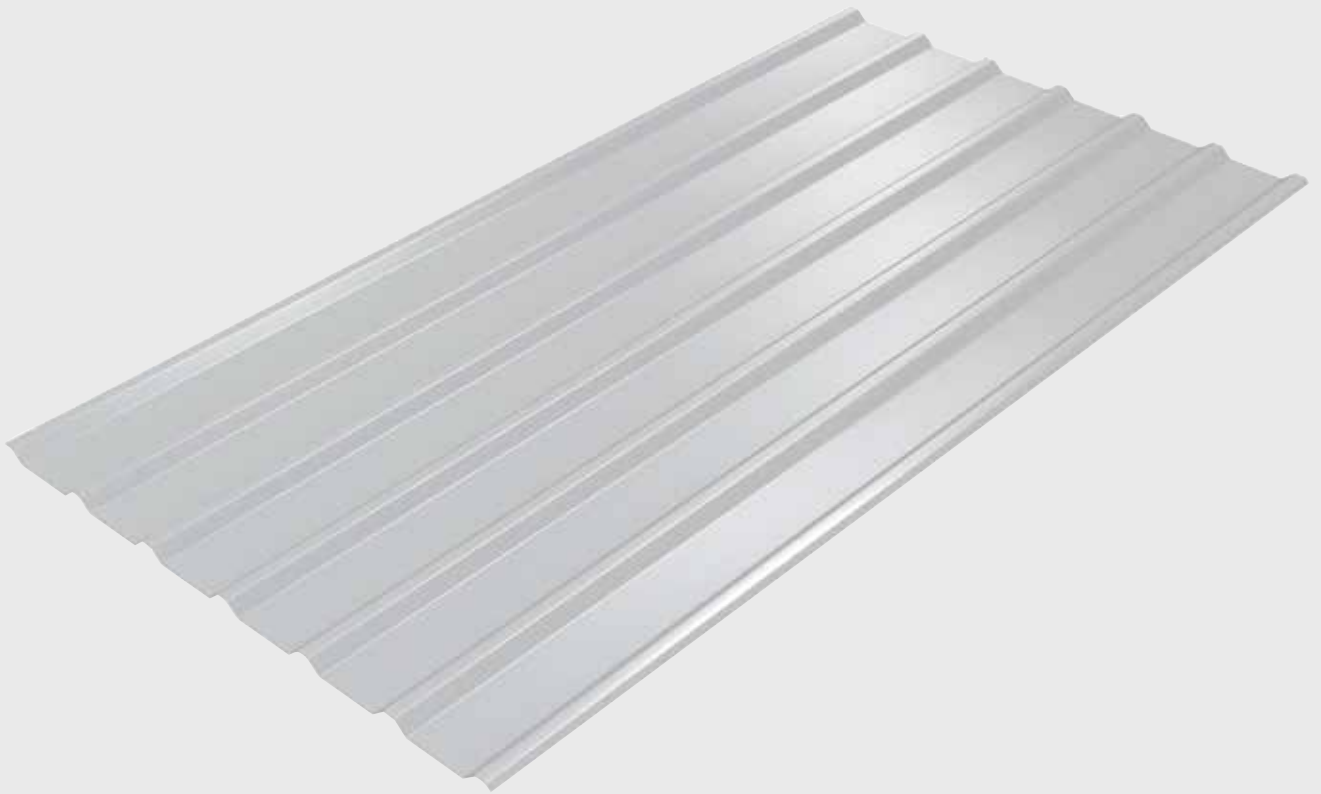


Insulated Panels
Standing Seam Systems

Protected by



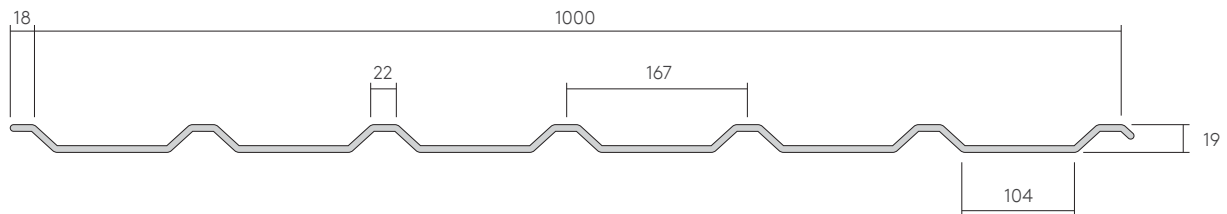
19/1000 Profiled Liner Product Data Sheet



Technical Data

Profiled Liner – 19/1000

The 19/1000 liner profile is typically used for industrial applications as part of a single or twin skin roof or wall cladding solution. The profile can be laid vertically, horizontally or diagonally.



Product Specification

Materials:	Steel: S220GD with either a Z275 galvanised (ASTM A653) or AZ150 AluZinc (ASTM A792) coating
Coatings:	Corus Colorcoat HPS200 Ultra, Colorcoat Prisma, Colorcoat LG, PVDF (aluminium), Colorcoat Highreflect, Colorcoat PE15
Lengths:	1.5 m to 12 m
Thickness:	See table
Fire performance:	Kingspan sheets in steel carry a spread of flame and smoke index rating of zero
Product tolerances:	Length: +/-7 mm (0 – 3,500 mm) /0.5 mm for each metre Width: +/-2 mm Edge squareness: +/-3 mm
Curving:	N/A
Perforation:	N/A

Dimensions and Weight

Substrate Thickness (mm)	0.40	0.70	0.90
Weight (kg/m ²) – Steel	3.498	6.01	7.80

Load Span – Profiled Liner 19/1000

Imposed Load in KN/m²

Profile Thickness (mm)	Span (m)	L/150	L/200	L/250	L/300	L/150	L/200	L/250	L/300	L/150	L/200	L/250	L/300
		Single				Double				Multiple			
0.40	0.80	2.50	2.50	2.50	2.26	2.16	2.16	2.16	2.16	2.51	2.51	2.51	2.51
	0.90	1.98	1.98	1.90	1.59	1.86	1.86	1.86	1.86	2.16	2.16	2.16	2.16
	1.00	1.60	1.60	1.39	1.16	1.62	1.62	1.62	1.62	1.89	1.89	1.89	1.89
	1.10	1.32	1.30	1.04	0.87	1.43	1.43	1.43	1.43	1.67	1.67	1.67	1.64
	1.20	1.11	1.00	0.80	0.67	1.27	1.27	1.27	1.27	1.49	1.49	1.49	1.27
	1.30	0.95	0.79	0.63	0.53	1.14	1.14	1.14	1.14	1.34	1.34	1.19	1.00
	1.40	0.82	0.63	0.51	0.42	1.03	1.03	1.03	1.01	1.21	1.20	0.96	0.80
	1.50	0.68	0.51	0.41	0.34	0.94	0.94	0.94	0.82	1.10	0.97	0.78	0.65
	1.60	0.56	0.42	0.34	0.28	0.85	0.85	0.82	0.68	0.98	0.80	0.64	0.53
	1.70	0.47	0.35	0.28	0.24	0.78	0.78	0.68	0.57	0.87	0.67	0.53	0.44
	1.80	0.40	0.30	0.24	0.20	0.72	0.72	0.57	0.48	0.75	0.56	0.45	0.37
	1.90	0.34	0.25	0.20	0.17	0.67	0.61	0.49	0.41	0.64	0.48	0.38	0.32
	2.00	0.29	0.22	0.17	0.14	0.62	0.52	0.42	0.35	0.55	0.41	0.33	0.27
	2.10	0.25	0.19	0.15	0.12	0.58	0.45	0.36	0.30	0.47	0.35	0.28	0.24
2.20	0.22	0.16	0.13	0.11	0.52	0.39	0.31	0.26	0.41	0.31	0.25	0.21	
0.70	0.80	5.08	5.08	4.25	3.54	4.06	4.06	4.06	4.06	4.86	4.86	4.86	4.86
	0.90	4.02	3.73	2.98	2.49	3.37	3.37	3.37	3.37	4.05	4.05	4.05	4.05
	1.00	3.25	2.72	2.17	1.81	2.85	2.85	2.85	2.85	3.43	3.43	3.43	3.43
	1.10	2.69	2.04	1.63	1.36	2.44	2.44	2.44	2.44	2.94	2.94	2.94	2.57
	1.20	2.10	1.57	1.26	1.05	2.11	2.11	2.11	2.11	2.55	2.55	2.38	1.98
	1.30	1.65	1.24	0.99	0.82	1.85	1.85	1.85	1.85	2.24	2.24	1.87	1.56
	1.40	1.32	0.99	0.79	0.66	1.63	1.63	1.63	1.59	1.98	1.87	1.50	1.25
	1.50	1.07	0.81	0.64	0.54	1.45	1.45	1.45	1.29	1.76	1.52	1.22	1.02
	1.60	0.88	0.66	0.53	0.44	1.30	1.30	1.28	1.07	1.58	1.25	1.00	0.84
	1.70	0.74	0.55	0.44	0.37	1.17	1.17	1.07	0.89	1.39	1.05	0.84	0.70
	1.80	0.62	0.47	0.37	0.31	1.06	1.06	0.90	0.75	1.18	0.88	0.71	0.59
	1.90	0.53	0.40	0.32	0.26	0.96	0.95	0.76	0.64	1.00	0.75	0.60	0.50
	2.00	0.45	0.34	0.27	0.23	0.88	0.82	0.65	0.55	0.86	0.64	0.51	0.43
	2.10	0.39	0.29	0.23	0.20	0.81	0.71	0.57	0.47	0.74	0.56	0.44	0.37
2.20	0.34	0.26	0.20	0.17	0.74	0.61	0.49	0.41	0.64	0.48	0.39	0.32	
0.90	0.80	6.75	6.75	6.49	5.41	6.67	6.67	6.67	6.67	7.99	7.99	7.99	7.99
	0.90	5.33	5.33	4.56	3.80	5.53	5.53	5.53	5.53	6.64	6.64	6.64	6.64
	1.00	4.32	4.15	3.32	2.77	4.66	4.66	4.66	4.66	5.61	5.61	5.61	5.24
	1.10	3.57	3.12	2.50	2.08	3.98	3.98	3.98	3.98	4.80	4.80	4.72	3.93
	1.20	3.00	2.40	1.92	1.60	3.44	3.44	3.44	3.44	4.16	4.16	3.64	3.03
	1.30	2.52	1.89	1.51	1.26	3.01	3.01	3.01	3.01	3.65	3.58	2.86	2.38
	1.40	2.02	1.51	1.21	1.01	2.65	2.65	2.65	2.43	3.22	2.86	2.29	1.91
	1.50	1.64	1.23	0.98	0.82	2.36	2.36	2.36	1.98	2.86	2.33	1.86	1.55
	1.60	1.35	1.01	0.81	0.68	2.11	2.11	1.95	1.63	2.56	1.92	1.53	1.28
	1.70	1.13	0.85	0.68	0.56	1.90	1.90	1.63	1.36	2.13	1.60	1.28	1.07
	1.80	0.95	0.71	0.57	0.47	1.72	1.72	1.37	1.14	1.80	1.35	1.08	0.90
	1.90	0.81	0.61	0.48	0.40	1.56	1.46	1.17	0.97	1.53	1.15	0.92	0.76
	2.00	0.69	0.52	0.42	0.35	1.42	1.25	1.00	0.83	1.31	0.98	0.79	0.65
	2.10	0.60	0.45	0.36	0.30	1.31	1.08	0.86	0.72	1.13	0.85	0.68	0.57
2.20	0.52	0.39	0.31	0.26	1.20	0.94	0.75	0.63	0.98	0.74	0.59	0.49	

Safe Imposed (positive) Loads (kN/m²).

The load shown is the ultimate load divided by 1.5.

Tolerances: EN 10143

Handling: European Recommendations

Tests / calculations: EN 1990, EN 1991 1-6, EN 1993 1-3, EN 1993 1-5

(calculations are to Eurocode, however additional checks such as fixings are required)

Steel quality: EN 10346

Load Span – Profiled Liner 19/1000

Wind Suction Load in KN/m²

Profile Thickness (mm)	Span (m)	Single				Double				Multiple			
		L/150	L/200	L/250	L/300	L/150	L/200	L/250	L/300	L/150	L/200	L/250	L/300
0.40	0.80	2.88	2.74	2.19	1.83	1.50	1.50	1.50	1.50	1.81	1.81	1.81	1.81
	0.90	2.56	1.92	1.54	1.28	1.26	1.26	1.26	1.26	1.52	1.52	1.52	1.52
	1.00	2.31	1.40	1.12	0.94	1.07	1.07	1.07	1.07	1.30	1.30	1.30	1.30
	1.10	1.41	1.05	0.84	0.70	0.93	0.93	0.93	0.93	1.12	1.12	1.12	1.12
	1.20	1.08	0.81	0.65	0.54	0.81	0.81	0.81	0.81	0.98	0.98	0.98	0.98
	1.30	0.85	0.64	0.51	0.43	0.71	0.71	0.71	0.71	0.86	0.86	0.86	0.81
	1.40	0.68	0.51	0.41	0.34	0.63	0.63	0.63	0.63	0.77	0.77	0.77	0.64
	1.50	0.55	0.42	0.33	0.28	0.56	0.56	0.56	0.56	0.69	0.69	0.63	0.52
	1.60	0.46	0.34	0.27	0.23	0.51	0.51	0.51	0.51	0.62	0.62	0.52	0.43
	1.70	0.38	0.29	0.23	0.19	0.46	0.46	0.46	0.46	0.56	0.54	0.43	0.36
	1.80	1.28	0.24	0.19	0.16	0.42	0.42	0.42	0.39	0.51	0.46	0.36	0.30
	1.90	0.27	0.20	0.16	0.14	0.38	0.38	0.38	0.33	0.47	0.39	0.31	0.26
	2.00	0.23	0.18	0.14	0.12	0.35	0.35	0.34	0.28	0.43	0.33	0.27	0.22
	2.10	0.20	0.15	0.12	0.10	0.32	0.32	0.29	0.24	0.38	0.29	0.23	0.19
2.20	0.18	0.13	0.11	0.09	0.30	0.30	0.25	0.21	0.33	0.25	0.20	0.17	
0.70	0.80	5.75	5.75	4.74	3.95	3.72	3.72	3.72	3.72	4.55	4.55	4.55	4.55
	0.90	4.54	4.16	3.33	2.77	3.08	3.08	3.08	3.08	3.77	3.77	3.77	3.77
	1.00	3.68	3.03	2.43	2.02	2.60	2.60	2.60	2.60	3.18	3.18	3.18	3.18
	1.10	3.04	2.28	1.82	1.52	2.22	2.22	2.22	2.22	2.72	2.72	2.72	2.72
	1.20	2.34	1.75	1.40	1.17	1.92	1.92	1.92	1.92	2.36	2.36	2.36	2.21
	1.30	1.84	1.38	1.10	0.92	1.68	1.68	1.68	1.68	2.06	2.06	2.06	1.74
	1.40	1.47	1.10	0.88	0.74	1.48	1.48	1.48	1.48	1.82	1.82	1.67	1.39
	1.50	1.20	0.90	0.72	0.60	1.31	1.31	1.31	1.31	1.62	1.62	1.36	1.13
	1.60	0.99	0.74	0.59	0.49	1.17	1.17	1.17	1.17	1.45	1.40	1.12	0.93
	1.70	0.82	0.62	0.49	0.41	1.06	1.06	1.06	0.99	1.30	1.17	0.93	0.78
	1.80	0.69	0.52	0.42	0.35	0.96	0.96	0.96	0.83	1.18	0.98	0.79	0.66
	1.90	0.59	0.44	0.35	0.29	0.87	0.87	0.85	0.71	1.07	0.84	0.67	0.56
	2.00	0.51	0.38	0.30	0.25	0.79	0.79	0.73	0.61	0.96	0.72	0.57	0.48
	2.10	0.44	0.33	0.26	0.22	0.73	0.73	0.63	0.53	0.83	0.62	0.50	0.41
2.20	0.38	0.28	0.23	0.19	0.67	0.67	0.55	0.46	0.72	0.54	0.43	0.36	
0.90	0.80	9.17	8.02	6.41	5.34	5.44	5.44	5.44	5.44	6.69	6.69	6.69	6.69
	0.90	7.24	5.63	4.50	3.75	4.47	4.47	4.47	4.47	5.51	5.51	5.51	5.51
	1.00	5.47	4.10	3.28	2.74	3.75	3.75	3.75	3.75	4.62	4.62	4.62	4.62
	1.10	4.11	3.08	2.47	2.06	3.18	3.18	3.18	3.18	3.93	3.93	3.93	3.89
	1.20	3.17	2.38	1.90	1.58	2.74	2.74	2.74	2.74	3.39	3.39	3.39	3.00
	1.30	2.49	1.87	1.49	1.25	2.39	2.39	2.39	2.39	2.95	2.95	2.83	2.36
	1.40	1.99	1.50	1.20	1.00	2.09	2.09	2.09	2.09	2.59	2.59	2.26	1.89
	1.50	1.62	1.22	0.97	0.81	1.85	1.85	1.85	1.85	2.30	2.30	1.84	1.53
	1.60	1.34	1.00	0.80	0.67	1.65	1.65	1.65	1.61	2.05	1.90	1.52	1.26
	1.70	1.11	0.84	0.67	0.56	1.48	1.48	1.48	1.34	1.84	1.58	1.26	1.05
	1.80	0.94	0.70	0.56	0.47	1.33	1.33	1.33	1.13	1.66	1.33	1.06	0.89
	1.90	0.80	0.60	0.48	0.40	1.20	1.20	1.15	0.96	1.50	1.13	0.91	0.75
	2.00	0.68	0.51	0.41	0.34	1.08	1.08	0.99	0.82	1.29	0.97	0.78	0.65
	2.10	0.59	0.44	0.35	0.30	0.98	0.98	0.85	0.71	1.12	0.84	0.67	0.56
2.20	0.51	0.39	0.31	0.26	0.89	0.89	0.74	0.62	0.97	0.73	0.58	0.49	

Safe Imposed (positive) Loads (kN/m²).

The load shown is the ultimate load divided by 1.5.

Tolerances: EN 10143

Handling: European Recommendations

Tests / calculations: EN 1990, EN 1991 1-6, EN 1993 1-3, EN 1993 1-5

(calculations are to Eurocode, however additional checks such as fixings are required)

Steel quality: EN 10346



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For the product offering in other markets please contact your local sales representative or visit www.kingspanpanels.com

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