Protected by Kingspan WARRANTY

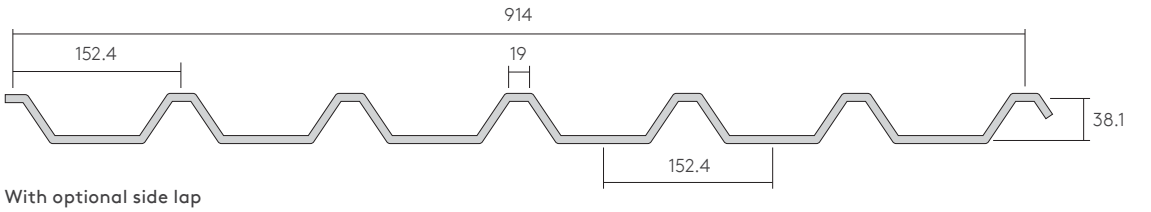
Insulated Panels
Standing Seam Systems

WA6
Profiled Liners
Product Data Sheet

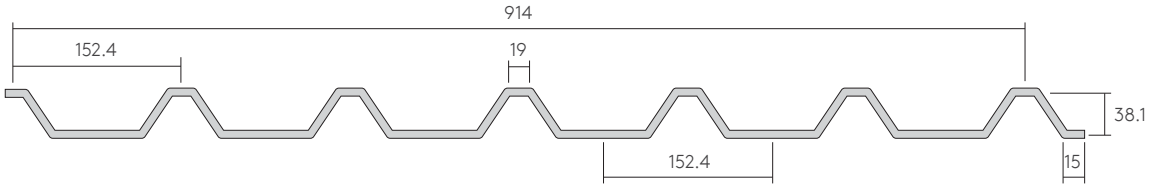
Kingspan®

Profiled Liner – WA6
Technical Data

The WA6 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.

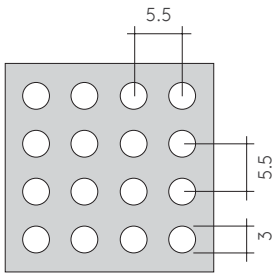


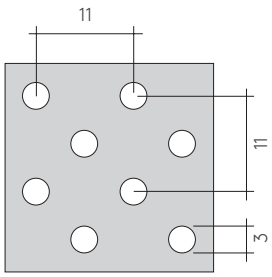
With optional side lap



Product Specification

Materials:	Steel: S220GD with either a Z275 galvanised (ASTM A653) or AZ150 AluZinc (ASTM A792) coating. Aluminium: AA3105 alloy to ASTM B209
Coatings:	Kingspan PVDF, Kingspan Spectrum, Kingspan Polyester
Lengths:	1.5 m to 12 m
Thickness:	See table
Fire Performance:	Kingspan sheets in either steel and aluminium carries a spread of flame and smoke index rating of zero. FM 4451 and FM4471 approved
Product Tolerances:	Length: +/-7 mm (0 – 3,500 mm) / 0.5 mm for each metre Width: +/-2 mm Edge squareness: +/-3 mm
Curving:	See table
Perforation:	The below perforation options are available





Dimensions and Weight

Substrate Thickness (mm)		0.50	0.60	0.70	0.80	0.90	1.00
Weight (kg/m^2)	– Steel	4.63	5.55	6.48	7.40	8.33	9.25
	– Aluminium	1.61	1.93	2.26	2.58	2.90	3.22

Convex Curving

Type	Material	Perforation	Min Radius (mm)
Crimped curved	Steel and aluminium	Non-perforated and perforated	500

Load Span – Profiled Liner WA6

Steel at 220 MPa Yield Strength

Profile Thickness in mm	Span (m)	Wind Suction Load in KN/m²			Imposed Load in KN/m²		
		Single	Double	Multiple	Single	Double	Multiple
0.50	1000	5.60	4.79	5.59	6.03	3.55	3.88
	1200	3.90	3.34	3.90	3.46	2.94	3.23
	1400	2.79	2.47	2.88	2.15	2.51	2.76
	1600	1.88	1.90	2.21	1.42	2.19	2.40
	1800	1.34	1.51	1.76	0.98	1.94	2.13
	2000	0.99	1.23	1.43	0.70	1.74	1.77
	2200	0.75	1.03	1.19	0.51	1.31	1.31
	2400	0.59	0.87	1.01	0.37	1.00	1.00
	2600	0.48	0.75	0.87	0.28	0.77	0.77
0.60	1000	6.72	5.75	6.71	7.24	4.26	4.66
	1200	4.68	4.01	4.68	4.15	3.53	3.87
	1400	3.34	2.96	3.45	2.59	3.02	3.31
	1600	2.26	2.28	2.65	1.71	2.63	2.88
	1800	1.60	1.81	2.11	1.17	2.33	2.55
	2000	1.18	1.48	1.72	0.83	2.09	2.12
	2200	0.90	1.23	1.43	0.61	1.57	1.57
	2400	0.71	1.05	1.21	0.45	1.19	1.19
	2600	0.57	0.90	1.04	0.34	0.92	0.92
0.70	1000	7.83	6.71	7.82	8.44	4.96	5.44
	1200	5.46	4.68	5.45	4.85	4.12	4.52
	1400	3.90	3.46	4.03	3.02	3.52	3.86
	1600	2.63	2.66	3.10	1.99	3.07	3.36
	1800	1.87	2.12	2.46	1.37	2.72	2.98
	2000	1.38	1.73	2.01	0.97	2.44	2.48
	2200	1.05	1.44	1.67	0.71	1.84	1.84
	2400	0.83	1.22	1.41	0.52	1.39	1.39
	2600	0.67	1.05	1.21	0.39	1.08	1.08
0.80	1000	8.95	7.67	8.94	9.65	5.67	6.22
	1200	6.24	5.35	6.23	5.54	4.71	5.16
	1400	4.46	3.95	4.60	3.45	4.02	4.41
	1600	3.01	3.04	3.54	2.27	3.51	3.84
	1800	2.14	2.42	2.81	1.57	3.10	3.41
	2000	1.58	1.97	2.29	1.11	2.78	2.83
	2200	1.21	1.64	1.91	0.81	2.10	2.10
	2400	0.95	1.39	1.62	0.60	1.59	1.59
	2600	0.76	1.20	1.39	0.45	1.23	1.23
0.90	1000	10.07	8.62	10.06	10.85	6.38	6.99
	1200	7.02	6.02	7.01	6.23	5.30	5.81
	1400	5.01	4.44	5.18	3.88	4.53	4.96
	1600	3.39	3.42	3.98	2.56	3.94	4.32
	1800	2.40	2.72	3.16	1.76	3.49	3.83
	2000	1.78	2.22	2.58	1.25	3.13	3.18
	2200	1.36	1.85	2.15	0.91	2.36	2.36
	2400	1.06	1.57	1.82	0.67	1.79	1.79
	2600	0.86	1.35	1.56	0.50	1.38	1.38
1.00	1000	11.19	9.58	11.18	12.06	7.09	7.77
	1200	7.80	6.68	7.79	6.92	5.89	6.45
	1400	5.57	4.94	5.75	4.31	5.03	5.51
	1600	3.76	3.80	4.42	2.84	4.38	4.81
	1800	2.67	3.02	3.52	1.96	3.88	4.26
	2000	1.97	2.47	2.87	1.39	3.48	3.54
	2200	1.51	2.06	2.39	1.01	2.62	2.62
	2400	1.18	1.74	2.02	0.75	1.99	1.99
	2600	0.95	1.50	1.74	0.56	1.54	1.54

Notes:
1. Deflection limits are L/180 for wind suction loads and L/240 for imposed loads.
2. The values in this load-span table consider load factors of 1.40 for dead load and 1.60 for imposed and wind loads.
3. The minimum bearing width allowed for to generate the values in this load-span is 60 mm.
4. Detailed static calculations based on project loadings shall supersede this load-span table.

Profiled Liner – WA6
Technical Data

Load Span – Profiled Liner WA6

Aluminium at 130 MPa Yield Strength

Profile Thickness in mm	Span (m)	Wind Suction Load in KN/m²			Imposed Load in KN/m²		
		Single	Double	Multiple	Single	Double	Multiple
0.50	1000	2.58	2.82	3.29	2.06	1.60	1.75
	1200	1.50	1.96	2.29	1.18	1.33	1.46
	1400	0.95	1.45	1.69	0.74	1.14	1.24
	1600	0.64	1.11	1.30	0.48	0.99	1.09
	1800	0.46	0.88	1.03	0.33	0.84	0.84
	2000	0.34	0.72	0.79	0.24	0.60	0.60
	2200	0.26	0.60	0.60	0.17	0.45	0.45
	2400	0.20	0.46	0.46	0.13	0.34	0.34
	2600	0.16	0.37	0.37	0.10	0.26	0.26
0.60	1000	3.10	3.38	3.95	2.47	1.92	2.10
	1200	1.80	2.36	2.75	1.42	1.60	1.75
	1400	1.14	1.74	2.02	0.88	1.36	1.49
	1600	0.77	1.33	1.55	0.58	1.19	1.30
	1800	0.55	1.06	1.23	0.40	1.00	1.00
	2000	0.40	0.86	0.95	0.28	0.72	0.72
	2200	0.31	0.71	0.72	0.21	0.54	0.54
	2400	0.24	0.56	0.56	0.15	0.41	0.41
	2600	0.20	0.44	0.44	0.11	0.31	0.31
0.70	1000	3.61	3.95	4.61	2.88	2.24	2.45
	1200	2.10	2.75	3.21	1.65	1.86	2.04
	1400	1.33	2.03	2.36	1.03	1.59	1.74
	1600	0.90	1.56	1.81	0.68	1.39	1.52
	1800	0.64	1.23	1.44	0.47	1.17	1.17
	2000	0.47	1.00	1.10	0.33	0.84	0.84
	2200	0.36	0.83	0.84	0.24	0.63	0.63
	2400	0.28	0.65	0.65	0.18	0.48	0.48
	2600	0.23	0.52	0.52	0.13	0.37	0.37
0.80	1000	4.13	4.51	5.27	3.29	2.56	2.80
	1200	2.40	3.14	3.66	1.89	2.13	2.33
	1400	1.52	2.31	2.70	1.18	1.82	1.99
	1600	1.03	1.78	2.07	0.78	1.59	1.74
	1800	0.73	1.41	1.64	0.53	1.34	1.34
	2000	0.54	1.15	1.26	0.38	0.97	0.97
	2200	0.41	0.95	0.95	0.28	0.72	0.72
	2400	0.32	0.74	0.74	0.20	0.54	0.54
	2600	0.26	0.59	0.59	0.15	0.42	0.42
0.90	1000	4.65	5.08	5.92	3.71	2.88	3.15
	1200	2.70	3.53	4.12	2.13	2.39	2.62
	1400	1.71	2.60	3.04	1.32	2.04	2.24
	1600	1.16	2.00	2.33	0.87	1.78	1.95
	1800	0.82	1.59	1.85	0.60	1.51	1.51
	2000	0.61	1.29	1.42	0.43	1.09	1.09
	2200	0.46	1.07	1.07	0.31	0.81	0.81
	2400	0.36	0.83	0.83	0.23	0.61	0.61
	2600	0.29	0.66	0.66	0.17	0.47	0.47
1.00	1000	5.16	5.64	6.58	4.12	3.20	3.50
	1200	3.00	3.93	4.58	2.36	2.66	2.91
	1400	1.90	2.89	3.37	1.47	2.27	2.49
	1600	1.29	2.22	2.59	0.97	1.98	2.17
	1800	0.91	1.76	2.05	0.67	1.67	1.67
	2000	0.67	1.43	1.58	0.47	1.21	1.21
	2200	0.52	1.19	1.19	0.34	0.90	0.90
	2400	0.40	0.93	0.93	0.25	0.68	0.68
	2600	0.33	0.74	0.74	0.19	0.52	0.52

Notes:
1. Deflection limits are L/180 for wind suction loads and L/240 for imposed loads.
2. The values in this load-span table consider load factors of 1.40 for dead load and 1.60 for imposed and wind loads.
3. The minimum bearing width allowed for to generate the values in this load-span is 60 mm.
4. Detailed static calculations based on project loadings shall supersede this load-span table.

Contact details

Middle East, Africa, Turkey & Central Asia

Kingspan Insulated Panels Manufacturing LLC
PO Box 60493
Dubai Investment Park
Jebel Ali Dubai, UAE

T: +971 (0) 4-8854 232
E: info@kingspanpanels.ae
www.kingspanpanels.ae

UK & Europe

Kingspan Limited
Greenfield Business Park 2
Bagillt Road | Holywell
CH8 7GJ

T: +44 (0) 1352 716 100
E: kingzip@kingspan.com
www.kingspanpanels.co.uk

Americas

Morin Corporation
685 Middle Street | Bristol
CT 06010 | U.S.A.

T: +1 (860) 584-0900
E: kingzip@kingspan.com
www.kingspanpanels.com

South East Asia

Kingspan Insulated Panels Pty Limited
1 Commonwealth Lane #07-26
Singapore 149544

T: +65 6264 5942
E: infosea@kingspan.com
www.kingspanpanels.sg

India

Kingspan Jindal Pvt. Ltd.
Old Manesar Road | Narsinghpur
Gurgaon - 122001 | Haryana | India

T: +91 124 4393 200
E: sales@kingspanjindal.com
www.kingspanjindal.com

Australia

Kingspan Insulated Panels Australia
38-52 Dunheved Circuit
St Marys | NSW 2760

T: +61 (02) 8889 3000
E: info@kingspanpanels.com.au
www.kingspanpanels.com.au

New Zealand

Kingspan Limited
97 Montreal Street | Sydenham
Christchurch

T: +64 (0) 800 121280
E: info@kingspanpanels.co.nz
www.kingspanpanels.co.nz

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