

Product Datasheet

Alumasc Metshield Metal Wall Systems – MS-MWSF-W3

Sheet No: PDS-MS006 [A]

Issued: 02/2026

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Description

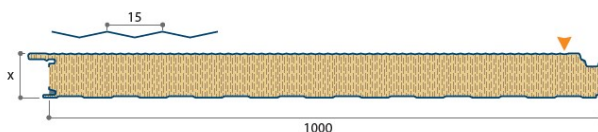
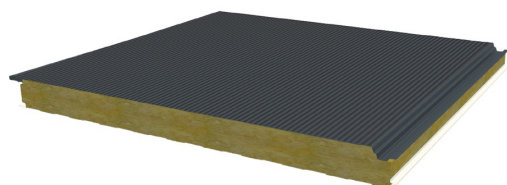
The Secret Fix Wall Panel is an insulated panel with Mineral Fibre core. The secret-fix design of this wall panel provides hidden fixation for a seamless transition between the panels, which results in a superbly smooth wall aesthetic.

Key Features

- ✓ High fire resistance and good fire reaction
- ✓ Quick installation
- ✓ Can be mounted horizontally and vertically
- ✓ Unique finish without visible screws
- ✓ High sound insulation
- ✓ Low maintenance and durable

Area of Use

For the application of insulated wall panels



Insulation Properties

- ✓ Mineral Fibre core, With high density and vertically oriented fibres
- ✓ A2-s1,d0 (for all coatings except HPS 200 Ultra) according to EN 13501-1:2019
- ✓ Environment - EPD-PPA-20240127-CBG1-EN

Product	Thickness (mm)	Weight (kg/m ²)	U (W/(m ² .K))
MS-MWSF60	60	16.71	0.71
MS-MWSF80	80	18.71	0.54
MS-MWSF100	100	20.71	0.43
MS-MWSF120	120	22.70	0.36
MS-MWSF150	150	25.70	0.29
MS-MWSF175	175	28.20	0.25
MS-MWSF200	200	30.70	0.21
MS-MWSF240	240	34.69	0.18

U-value (incl. joint) according to EN 14509: 2013 | R-value = 1 / U
 Impact of thermal cold bridge due to screws available upon request.

Technical Information

Standard Length	from 2500 to 14000 mm
Effective Width	1000 mm
Type of metal	Steel S280 GD
Outer plate (A)	Micro profiled steel plate (Micro), thickness 0,70 mm
Coatings	Essential (25 µ), Ultra 60, Ultra 75, HPS 200 Ultra® according to color chart MR101_Colorflow
Inner plate (B)	lightly profiled steel plate (Linear), thickness: 0,50 mm, RAL 9002 (15µ) standard
Assembly	Vertical and Horizontal direction
Fastening	hidden - installation with pressure distribution plate required
Galvanized steel	EN 10346:2015 - tolerances according to EN 10143:2006
Pre-painted steel	EN 10169:2022
Dimensions / Tolerances	EN 14509:2013 (Geometry)
Static calculation	EN 14509:2013

Our company policy is one of continuous research and development; we therefore reserve the right to amend content herein without prior notice.

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Load Tables (in kN/m²)

The load tables are valid for wall application. Design method according to the annex E of standard BS EN 14509:2013. For intermediate values, linear interpolation may be used. The allowable load depends on the number of supports and the (unweighted) loads calculated according to Eurocode. In the case of double or triple span conditions, this span table can only be used when all spans are equal or when the difference between the spans is less than 10%. The considered deflection limit is L/100. The table applies to buildings with a normal indoor climate (e.g., no refrigerated or freezer halls). The calculation of fasteners has not been included. Please consult the Technical Department for any questions.

Permissible Wind Pressure (kN/m²) for span (m)

	Thickness (mm)	Load (kN/m2)																			
		1.40	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
Single	50	1.97	1.72	1.53	1.39	1.25	1.16	1.07	0.99	0.93	0.88	0.82	0.77	0.73	0.69	0.65	0.61	0.57	0.53	0.49	0.44
	60	2.37	2.07	1.84	1.66	1.50	1.39	1.27	1.19	1.11	1.04	0.98	0.93	0.89	0.84	0.80	0.75	0.70	0.65	0.60	0.55
	80	2.88	2.52	2.23	2.01	1.83	1.68	1.55	1.44	1.35	1.25	1.19	1.13	1.07	1.01	0.96	0.91	0.86	0.81	0.77	0.72
	100	3.55	3.10	2.79	2.48	2.25	2.07	1.91	1.77	1.66	1.55	1.46	1.39	1.31	1.24	1.18	1.11	1.05	0.99	0.92	0.85
	120	3.19	2.79	3.50	2.23	2.03	1.87	1.72	1.60	1.49	1.40	1.32	1.24	1.18	1.13	1.07	1.02	0.98	0.94	0.91	0.87
	150	4.00	3.50	3.11	2.79	2.54	2.33	2.15	1.99	1.87	1.75	1.65	1.56	1.47	1.41	1.34	1.27	1.22	1.18	1.13	1.09
	175	4.00	3.50	3.11	2.79	2.54	2.33	2.15	1.99	1.87	1.75	1.65	1.56	1.47	1.41	1.34	1.27	1.22	1.18	1.13	1.09
	200	4.00	3.50	3.11	2.79	2.54	2.33	2.15	1.99	1.87	1.75	1.65	1.56	1.47	1.41	1.34	1.27	1.22	1.18	1.13	1.09
Double	50	1.71	1.49	1.34	1.12																
	60	1.91	1.67	1.49	1.34	1.03															
	80	2.42	2.12	1.89	1.70	1.54															
	100	3.09	2.70	2.41	2.17	1.97	1.80														
	120	3.19	2.79	2.48	2.23	2.03	1.87	1.59													
	150	3.53	3.10	2.75	2.48	2.25	2.06	1.91	1.77	1.59											
	175	3.53	3.10	2.75	2.48	2.25	2.07	1.91	1.77	1.66	1.55	1.37									
Multiple	200	3.53	3.10	2.75																	
	50	1.71	1.49	1.34	1.20	1.10															
	60	1.91	1.67	1.49	1.34	1.19	1.01														
	80	2.42	2.12	1.89	1.70	1.54	1.30														
	100	3.09	2.70	2.41	2.17	1.96	1.79														
	120	3.19	2.79	2.48	2.23	2.03	1.78														
	150	3.53	3.10	2.75	2.48	2.25	2.06	1.91	1.77												
	175	2.48	1.77																		
200																					

The minimum end and intermediate support widths are 50 mm and 100 mm.

The panels are fixed with 2 screws + distribution plate per panel width.

Permissible Wind Suction (kN/m²) for span (m)

	Thickness (mm)	Span (m)																			
		1.40	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
Single	50	1.58	1.39	1.23	1.12	1.01	0.94	0.87	0.80	0.74	0.71	0.67	0.64	0.61	0.57	0.54	0.50	0.41	0.31		
	60	1.67	1.46	1.30	1.18	1.07	0.98	0.91	0.85	0.79	0.74	0.70	0.67	0.64	0.61	0.57	0.54	0.51	0.47	0.43	0.38
	80	1.84	1.61	1.44	1.29	1.18	1.08	0.99	0.93	0.87	0.81	0.76	0.72	0.69	0.67	0.64	0.61	0.57	0.54	0.52	0.49
	100	2.00	1.75	1.56	1.41	1.28	1.18	1.09	1.00	0.95	0.89	0.84	0.78	0.74	0.71	0.69	0.66	0.63	0.61	0.58	0.55
	120	2.18	1.91	1.70	1.52	1.39	1.27	1.18	1.10	1.01	0.96	0.91	0.86	0.81	0.76	0.73	0.71	0.68	0.66	0.63	0.61
	150	2.42	2.12	1.89	1.70	1.54	1.42	1.31	1.21	1.14	1.07	1.00	0.95	0.91	0.86	0.82	0.77	0.74	0.72	0.70	0.67
	175	2.42	2.12	1.89	1.70	1.54	1.42	1.31	1.21	1.14	1.07	1.00	0.95	0.91	0.86	0.82	0.77	0.74	0.72	0.70	0.67
Double	200	2.42	2.12	1.89	1.70	1.54	1.42	1.31	1.21	1.14	1.07	1.00	0.95	0.91	0.86	0.82	0.77	0.74	0.72	0.70	0.67
	50	1.06	0.92	0.78																	
	60	1.00	0.91	0.83	0.70																
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	120	1.00	0.75	0.64	0.53	0.43	0.33														
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Technical Support

Technical advice is available from Alumasc Technical Services at:

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Email: technical@alumascroofing.com

The company pursues a policy of constant product development and information contained in this publication is therefore subject to change without notice. The customer is responsible for ensuring that each product is fit for its intended purpose and that the conditions for use are suitable. All quoted data is nominal and subject to production tolerances.

