

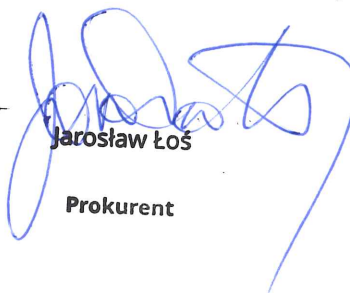
DECLARATION OF PERFORMANCE OF THE „ARPANEL” SANDWICH PANELS

NO. DWU/S MiWo Lt/01/2024/EN

1	Name and address of manufacturer	Adamietz Sp. z o.o. 47 – 100 Strzelce Opolskie ul. Braci Prankel 1 Poland
2	Unique identification code of the product-type	Sandwich panels ARPANEL S 80 MIWO, ARPANEL S 100 MIWO, ARPANEL S 120 MIWO, ARPANEL S 150 MIWO, ARPANEL S 160 MIWO, ARPANEL S 180 MIWO, ARPANEL S 200 MIWO with the Rockwool mineral wool core.
3	Intended use, in accordance with the applicable harmonized technical specification	Metal faced insulating panel for use in buildings as external walls, partitions and ceilings.
4	System of assessment and verification of constancy of performance:	3
5	Harmonized standard	PN-EN 14509:2013 - 12
6	Notified body	– INSTYTUT TECHNIKI BUDOWLANEJ Warsaw - No. 1488 – IMA Materialforschung und Anwendungstechnik GmbH Dresden – No. 2456 – Fires s.r.o. Batizovce – No. 1396
7	Declared performances	Annex no. 1

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:


Jarosław Łoś
Prokurent

Strzelce Opolskie, 07.11.2024

**Annex 1 to the Declaration of performance NO. DWU/S MiWo Lt/01/2024/EN**

Panel thickness [mm]			80	100	120	150	160	180	200
Dimensional tolerances			± 2 mm			± 2 %			
Mass [kg/m²]			16,1	17,8	19,5	22,0	22,9	24,6	26,3
Density of core material (MIWO) [kg/m³]			85±10%						
External/Internal Facing - Steel grade			S280GD+Z; S250GD+Z; S220GD+Z						
Coating type			SP25, Food Safe (PVC), PRISMA, HDX, PVDF, PUR/PA						
Thickness of facing material [mm]			External: 0,5 - 0,7				Internal: 0,5 – 0,7		
Facing profile			External: G, L , M8, M14, M30				Internal: G, L, M20		
Cross panel tensile strength f _α [kPa]			58			51,63	49,5	45,25	41
Compressive strength (core) f _{cc} [kPa]			48			43,88	42,5	39,75	37
Shear strength (core) f _{cv} [kPa]			31			27,25	26	23,5	21
Shear modulus (core) G _c [MPa]			3,2			2,75	2,6	2,3	2
Creep coefficient	t= 2.000 h		1,5						
	t= 100.000 h		4,0						
Wrinkling stress [MPa]	in span	external face	G, M8, M30: 85 L: 123 M14: 85	G, M8, M30: 95 L: 123 M14: 95	G, M8, M30: 105 L: 123 M14: 105	G, M8, M30: 95,6 L: 114 M14: 110,6	G, M8, M30: 92,5 L: 111 M14: 112,5	G, M8, M30: 86,3 L: 105 M14: 116,3	G, M8, M30: 80 L: 99 M14: 120
		external face >80°C	G, M8, M30: 82 L: 119 M14: 82	G, M8, M30: 92 L: 119 M14: 92	G, M8, M30: 102 L: 119 M14: 102	G, M8, M30: 93 L: 110,4 M14: 107,3	G, M8, M30: 90 L: 107,5 M14: 109	G, M8, M30: 84 L: 101,8 M14: 112,5	G, M8, M30: 78 L: 96 M14: 116
		internal face	G, M20: 85 L: 123	G, M20: 95 L: 123	G, M20: 105 L: 123	G, M20: 95,6 L: 114	G, M20: 92,5 L: 111	G, M20: 86,3 L: 105	G, M20: 80 L: 99
	At central support	external face	G, M8, M30: 57 L: 73 M14: 57	G, M8, M30: 63,5 L: 73 M14: 63,5	G, M8, M30: 70 L: 73 M14: 70	G, M8, M30: 59,9 L: 70,8 M14: 70,8	G, M8, M30: 56,5 L: 70 M14: 71	G, M8, M30: 49,8 L: 68,5 M14: 71,5	G, M8, M30: 43 L: 67 M14: 72
		external face >80°C	G, M8, M30: 55 L: 70 M14: 55	G, M8, M30: 61,5 L: 70 M14: 61,5	G, M8, M30: 68 L: 70 M14: 68	G, M8, M30: 58,3 L: 68,1 M14: 68,8	G, M8, M30: 55 L: 67,5 M14: 69	G, M8, M30: 48,5 L: 66,3 M14: 69,5	G, M8, M30: 42 L: 65 M14: 70
		internal face	G, M20: 72 L: 103	G, M20: 80,5 L: 103	G, M20: 89 L: 103	G, M20: 77,8 L: 89,1	G, M20: 74 L: 84,5	G, M20: 66,5 L: 75,3	G, M20: 59 L: 66
	Correction factors including the cladding thickness		Profilings					Cladding thickness [mm]	
			G, M8, M30					0,55	0,60
			M14					0,91	0,85
			L					0,98	0,84
Thermal conductivity λ _D [W/m*K]			0,038						
Thermal transmittance U _{dS} [W/m²*K]			0,46	0,37	0,31	0,25	0,23	0,21	0,19
Reaction to fire			A2-s1,d0						
Fire resistance	VERTICAL		NPD						
	HORIZONTAL		NPD			EI 45/ E45			
Water permeability [class]			A						
Air permeability	Positive pressure		C = 0,2630; n = 0,5313						
	Negative pressure		C = 0,0227; n = 0,4764						
Airborne sound insulation R _w (C, C _{tr}) [dB]			NPD						
Sound absorption α _w			NPD						