



# DECLARATION OF PERFORMANCE OF THE „ARPANEL” SANDWICH PANELS

NO. DWU/S MiWo/02/2020/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 20.05.2020

**Annex 1 to the Declaration of performance NO. DWU/S MiWo/02/2020/EN**

Panel thickness [mm]	80	100	120	150	160	180	200	Harmonized technical specification	
Dimensional tolerances	± 2 mm		± 2 %					PN-EN 14509:2013	
Mass [kg/m <sup>2</sup> ]	18,4	20,2	22	24,8	25,7	27,5	29,3		
Density of core material (MIWO) [kg/m <sup>3</sup> ]	105±10%							PN-EN 14509:2013	
External/Internal Facing - Steel grade	S280GD+Z; S250GD+Z; S220GD+Z							PN-EN 14509:2013	
Coating type	SP25, Food Safe (PVC), PRISMA, HPS, HDX, INOX, PVDF							PN-EN 14509:2013	
Thickness of facing material [mm]	External: 0,5 - 0,7				Internal: 0,5 - 0,7			PN-EN 14509:2013	
Facing profile	External: G, L, M8, M14				Internal: G, L, M20				
<b>Mechanical properties:</b>									
Cross panel tensile strength $f_{ct}$ [kPa]	120	120	120	120	120	120	120	PN-EN 14509:2013	
Compressive strength (core) $f_{cc}$ [kPa]	70	70	70	70	67	61	55		
Shear strength (core) $f_{cv}$ [kPa]	45	45	45	45	45	45	45		
Shear modulus (core) $G_C$ [MPa]	4,7	4,7	4,7	4,7	4,7	4,7	4,7		
Creep coefficient	t= 2.000 h	0,5							
	t= 100.000 h	1,0							
<b>Other properties:</b>									
Thermal conductivity $\lambda_D$ [W/m*K]	0,040							PN-EN 14509:2013	
Thermal transmittance $U_{d,s}$ [W/m <sup>2</sup> *K]	0,48	0,39	0,32	0,26	0,24	0,22	0,20	PN-EN 14509:2013	
Reaction to fire	A2-s1,d0							PN-EN 14509:2013	
Fire resistance	VERTICAL	EI60	EI60	E120	EI240	EI240	EI240	EI240	PN-EN 14509:2013
		E60	E120	E120	E240	E240	E240	E240	PN-EN 14509:2013
	HORIZONTAL	EI60	EI60	EI120	EI180	EI180	EI180	EI180	PN-EN 14509:2013
		E60	E60	E120	E240	E240	E240	E240	PN-EN 14509:2013
	CEILING	NPD	EI30 (a←b)					PN-EN 14509:2013	
Water permeability [class]	A							PN-EN 14509:2013	
Air permeability	Positive pressure	C = 0,2630; n = 0,5313						PN-EN 14509:2013	
	Negative pressure	C = 0,0227; n = 0,4764							
Airborne sound insulation	30 (-1;-2)	32 (-1;-3)	32 (-2;-4)	32 (-3;-5)	31 (-1;-3)			PN-EN 14509:2013	
<b>R<sub>w</sub> (C, C<sub>tr</sub>) [dB]</b>									
Sound absorption $\alpha_w$	0,15							PN-EN 14509:2013	