



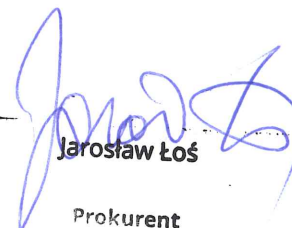
DECLARATION OF PERFORMANCE OF THE „ARPANEL” SANDWICH PANEL

NO. DWU/S PIR/2.1/2024/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	ARPANEL S 60 PIR, ARPANEL S 80 PIR, ARPANEL S 100 PIR SANDWICH PANELS with a polyisocyanurate foam 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:	System 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 performance	Annex 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, 18-11-2024

ARPANEL - Sandwich panels
Adamietz Sp. z o.o.
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Division, National Court Register No.: 0000100273
Share capital: 2.330.000,00 PLN

www.arpanel.eu

Annex 1 to the Declaration of performance NO. DWU/S PIR/2.1/2024/EN

Panel thickness [mm]			60	80	100
Dimensional tolerances			± 2 mm		
Mass [kg/m²]			10,4	11,2	11,9
Density of core material (PIR foam) [kg/m³]			40±3		
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: 0,4 – 0,7	
Facing profile			External: G, L, M8, M14, M30	Internal: G, L, M20	
Cross panel tensile strength f_{ct} [kPa]			100	100	100
Compressive strength (core) f_{cc} [kPa]			100	100	100
Shear strength (core) f_{cv} [kPa]			120	120	120
Shear modulus (core) G_c [MPa]			3,1	3,1	3,1
Creep coefficient			t= 2.000 h	3.0	
			t= 100.000 h	5.0	
Wrinkling stress [MPa]	in span	external face	M8/M14:160 M30: 157 L:134 G:63	M8/M14:172 M30: 166 L:134 G:63	M8/M14:183 M30: 175 L:134 G:63
		external face >80°C	M8/M14:130 M30: 127,3 L:109 G:51	M8/M14:139 M30: 134,5 L:109 G:51	M8/M14:149 M30: 141,8 L:109 G:51
		internal face	L:134 G:63 M20:184	L:134 G:63 M20:184	L:134 G:63 M20:184
	At central support	external face	M8/M14:123 M30: 120,8 L:98 G:44	M8/M14:128 M30: 123,5 L:96 G:44	M8/M14:132 M30: 126,3 L:93 G:44
		external face >80°C	M8/M14:100 M30: 98 L:79 G:36	M8/M14:104 M30: 100 L:77 G:36	M8/M14:107 M30: 102 L:75 G:36
		internal face	L:119 G:54 M20:150	L:118 G:54 M20:145	L:116 G:54 M20:139
	Correction factors for the thickness of the facing		t=0,6 mm for M8/14; 0,85 for M20/M30; 0,83 for L; 0,84 t=0,7 mm for M8/14; 0,76 for M20/M30; 0,74 for L; 0,75		
	Thermal conductivity λ_D [W/m*K]			0,022	
Thermal transmittance $U_{d,s}$ [W/m²*K]			0,37	0,27	0,22
Reaction to fire			B-s1,d0		
Fire resistance	Vertical	E 15 / EI 15			E 30 / EI 30 / EW 30
	Horizontal	NPD	E 20 / EI 20 / EW20	E 30 / EI 30 / EW 30	
	Ceiling	EI 15 (a←b)			EI 30 (a←b)
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, Ctr) [dB]			25 (-2;-4)		
Sound absorption α_w			0,15		
Additional performance not included in the list of relevant clauses in accordance with PN-EN 14509:					
Parameter			performance properties		
Fire-spread			NRO		

More details about field of application of fire resistance results are shown in Technical Documentation.