



# DECLARATION OF PERFORMANCE OF THE „ARPANEL” SANDWICH PANEL

NO. DWU/S PIR/01/2022/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	<b>ARPANEL S 40 PIR, ARPANEL S 60 PIR, ARPANEL S 80 PIR, ARPANEL S 100 PIR SANDWICH PANELS</b> 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, 03-01-2022

## Annex 1 to the Declaration of performance NO. DWU/S PIR/01/2022/EN

Panel thickness [mm]		40	60	80	100	
Dimensional tolerances		± 2 mm				
Mass [kg/m <sup>2</sup> ]		10,0	10,7	11,6	12,7	
Density of core material (PIR foam) [kg/m <sup>3</sup> ]		40±3				
External/Internal Facing - Steel grade		S280GD+Z; S250GD+Z; S220GD+Z				
Coating type		PURPA, SP25, Food Safe (PVC), PRISMA, HPS, HDX, PVDF				
Thickness of facing material [mm]		External: 0,5 - 0,7		Internal: 0,4 - 0,7		
Facing profile		External: G, L, M8, M14		Internal: G, L		
Cross panel tensile strength $f_{ct}$ [kPa]		100	100	100	100	
Compressive strength (core) $f_{cc}$ [kPa]		100	100	100	100	
Shear strength (core) $f_{cv}$ [kPa]		150	120	120	120	
Shear modulus (core) $G_c$ [MPa]		3,7	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/M14:148 L:134 G:67	M8/M14:160 L:134 G:63	M8/M14:172 L:134 G:63	M8/M14:183 L:134 G:63
		external face >80°C	M8/M14:120 L:109 G:54	M8/M14:130 L:109 G:51	M8/M14:139 L:109 G:51	M8/M14:149 L:109 G:51
		internal face	L:134 G:67 M20:184	L:134 G:63 M20:184	L:134 G:63 M20:184	L:134 G:63 M20:184
	At central support	external face	M8/M14:118 L:101 G:54	M8/M14:123 L:98 G:44	M8/M14:128 L:96 G:44	M8/M14:132 L:93 G:44
		external face >80°C	M8/M14:96 L:81 G:43	M8/M14:100 L:79 G:36	M8/M14:104 L:77 G:36	M8/M14:107 L:75 G:36
		internal face	L:121 G:60 M20:156	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; 0,83 for L; 0,84 t=0,7 mm for M8/14;0,76 for M20;0,74 for L; 0,75			
	Thermal conductivity $\lambda_D$ [W/m*K]		0,022			
	Thermal transmittance $U_{d,s}$ [W/m <sup>2</sup> *K]		0,58	0,37	0,27	0,22
	Reaction to fire		B-s1,d0			
Fire resistance	Vertical	NPD	E 15 / EI 15		E 30 / EI 30 / EW 30	
	Horizontal	NPD		E 20 / EI 20 / EW20	E 30 / EI 30 / EW 30	
	Ceiling	NPD	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 $\alpha_w$		0,15				
<b>Additional performance not included in the list of relevant clauses in accordance with PN-EN 14509:</b>						
<b>Parameter</b>		<b>Value</b>				
Fire-spread		non-fire spreading				

\*The classification is valid in end use as external and internal walls