



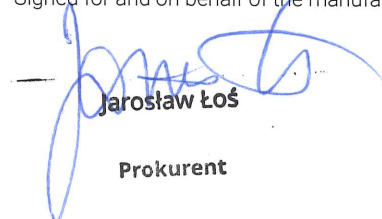
# DECLARATION OF PERFORMANCE OF THE „ARPANEL” SANDWICH PANELS

NO. DWU/CH PIR/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	ARPANEL CH 120 PIR, ARPANEL CH 140 PIR, ARPANEL CH 160 PIR, ARPANEL CH 200 PIR SANDWICH PANELS with 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, 27-02-2024

## Annex 1 to the Declaration of performance NO. DWU/CH PIR/01/2024/EN

Panel thickness [mm]		120	140	160	200	
Dimensional tolerances		± 2 %				
Mass [kg/m <sup>2</sup> ]		12,6	13,4	14,2	15,7	
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		SP25, Food Safe (PVC), PRISMA, HPS, 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	98	95	90	
Compressive strength (core) $f_{cc}$ [kPa]		100	100	100	100	
Shear strength (core) $f_{cv}$ [kPa]		120	113	105	90	
Shear modulus (core) $G_c$ [MPa]		3,1	2,9	2,7	2,3	
Creep coefficient		t= 2.000 h	3,0			
		t= 100.000 h	5,0			
Wrinkling stress [MPa]	In span	external face	M8/M14:195 L:134 G:63	M8/M14:195 L:129 G:61	M8/M14:195 L:124 G:60	M8/M14:195 L:113 G:57
		external face >80°C	M8/M14:158 L:109 G:51	M8/M14:158 L:105 G:50	M8/M14:158 L:101 G:49	M8/M14:158 L:92 G:46
		internal face	L:134 G:63 M20:184	L:129 G:62 M20:177	L:124 G:60 M20:169	L:113 G:57 M20:154
	At central support	external face	M8/M14:137 L:90 G:44	M8/M14:132 L:85 G:42	M8/M14:127 L:79 G:39	M8/M14:117 L:68 G:34
		external face >80°C	M8/M14:111 L:73 G:36	M8/M14:107 L:69 G:34	M8/M14:103 L:64 G:32	M8/M14:95 L:55 G:28
		internal face	L:114 G:54 M20:133	L:108 G: 52 M20:123	L:102 G:50 M20:113	L:90 G:46 M20:92
	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]		0,18	0,16	0,14	0,11
	Reaction to fire		B-s2,d0			
Fire resistance*	Vertical	E 30 / EI 30			E 60 / EI 45 / EW 60	
	Horizontal	E 30 / EI 30 / EW 30			E 45 / EI 45 / EW 45	
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]		24 (-2;-4)				
Sound absorption $\alpha_w$		0,15				

### Additional performance not included in the list of relevant clauses in accordance with PN-EN 14509:

Parameter	Value			
Fire-spread	non-fire spreading			
$\lambda_{design}$ [W/m*K] (0°C)	0,021			
$U_{d,s}$ [W/m <sup>2</sup> *K] (0°C)	0,17	0,15	0,13	0,10

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