



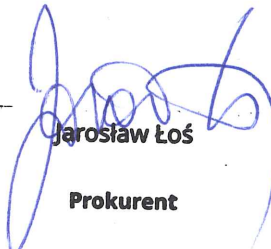
DECLARATION OF PERFORMANCE OF THE „ARPANEL” SANDWICH PANELS

NO. DWU/CH PIR/1/2025/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, 31-03-2025

**Annex 1 to the Declaration of performance NO. DWU/CH PIR/01/2025/EN**

Panel thickness [mm]			120	140	160	200		
Dimensional tolerances			± 2 %					
Mass [kg/m²]			12,6	13,4	14,2	15,7		
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	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	M8/M14:195	M8/M14:195	M8/M14:195		
			M30: 184	M30: 176,5	M30: 169	M30: 154		
			L:134 G:63	L:129 G:61	L:124 G:60	L:113 G:57		
		external face >80°C	M8/M14:158	M8/M14:158	M8/M14:158	M8/M14:158		
			M30: 149	M30: 143	M30: 137	M30: 125		
			L:109 G:51	L:105 G:50	L:101 G:49	L:92 G:46		
		internal face	L:134 G:63	L:129 G:62	L:124 G:60	L:113 G:57		
			M20:184	M20:177	M20:169	M20:154		
		At central support	external face	M8/M14:137	M8/M14:132	M8/M14:127	M8/M14:117	
				M30: 129	M30: 119,8	M30: 110,5	M30: 89,5	
				L:90 G:44	L:85 G:42	L:79 G:39	L:68 G:34	
	external face >80°C		M8/M14:111	M8/M14:107	M8/M14:103	M8/M14:95		
			M30: 104	M30: 96,8	M30: 89,5	M30: 75		
			L:73 G:36	L:69 G:34	L:64 G:32	L:55 G:28		
	internal face		L:114 G:54	L:108 G: 52	L:102 G:50	L:90 G:46		
			M20:133	M20:123	M20:113	M20:92		
	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 ₀ [W/m*K]			0,022				
	Thermal transmittance U _{dS} [W/m²*K]			0,18	0,16	0,14	0,11	
	Reaction to fire			B-s1,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	
Ceiling		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 insulationR _w (C, Ctr) [dB]			24 (-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			Value					
Fire-spread			non-fire spreading					
λ _{design} [W/m²*K] (0°C)			0,021					
U _{dS} [W/m²*K] (0°C)			0,17	0,15	0,13	0,10		

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