ARPANEL

CE

DECLARATION OF PERFORMANCE OF THE „ARPANEL" SANDWICH PANELS

NR. DWU/XS PIR/01/2026 EN

1	Name and address of manufacturer	Adamietz S.A. 47 – 100 Strzelce Opolskie ul. Braci Prankel 1 Poland
2	Unique product type identification code	Sandwich panels ARPANEL XS 80 PIR, ARPANEL XS 100 PIR with polyisocyanurate foam core
3	Intended use in accordance with the applicable harmonized technical specification	Insulating and structural sandwich elements between two steel facings for use in buildings as interior and exterior walls and ceilings
4	System of assessment and verification of constancy of performance	System 3
5	Harmonized standard	EN 14509:2013 – 12
6	Notified body	INSTYTUT TECHNIKI BUDOWLANEJ w Warszawie – No. 1488 IMA Materialforschung und Anwendungstechnik GmbH Dresden – No. 2457 Fires s.r.o. Batizovce – No. 1396 Technische Universität Darmstadt Institut für Stahlbau und Werkstoffmechanik – No. 2873
7	Declared performance	Annex 1.

The performance of the product specified above is in accordance with the set of declared performance characteristics. This declaration of performance is issued in accordance with Regulation (EU) No 305/2011 under the sole responsibility of the manufacturer specified above.

Signed for and on behalf of the manufacturer by:

PROKURENT

Marcin Sobisiak

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Strzelce Opolskie, 27-02-2026

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Kapitał zakładowy: 4.660.000,00 PLN

SĄD REJONOWY W OPOLU VIII WYDZIAŁ GOSPODARCZY
KRS: 0001210114

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Annex 1 to the Declaration of performance NO. DWU/XS PIR/01/2026/EN

Panel thickness [mm]			80	100
Dimensional tolerances			± 2 mm	
Mass [kg/m2]			12,5	13,4
Density of core material (PIR foam) [kg/m3]			42±2	
External/Internal Facing - Steel grade			min. S280GD+Z	
Coating type			SP25, Food Safe (PVC), PRISMA, HDX, PVDF, PUR/PA	
Thickness of facing material (outside) [mm]			0,6 - 0,7	
Thickness of facing material (inside) [mm]			0,4 - 0,7	
External facing profile			M14	
Internal facing profile			G, L, M20	
Cross panel tensile strength f_{ct} [kPa]			100	
Compressive strength (core) f_{cc} [kPa]			100	
Shear strength (core) f_{cv} [kPa]			120	
Shear modulus (core) G_c [MPa]			3,1	
Transverse shear strength $f_{cv,quer}$ [kPa]			90	88
Transverse shear modulus $G_{c,quer}$ [MPa]			1,09	1,19
Wrinkling stress [MPa]	in span	external face	M14: 172	M14: 183
		external face T>80°C	M14: 139	M14: 149
		internal face	L:134; G:63; M20:184	L:134; G:63; M20:184
	at central support	external face	M14: 128	M14: 132
		external face T>80°C	M14: 104	M14: 107
		internal face	L:118; G:54; M20:145	L:116; G:54; M20:139
	Correction factors for the thickness of the facing t_{nom} > 0,50 mm		t=0,6mm for M14: 0,85; for M20: 0,83; for L: 0,84	
			t=0,7mm for M14: 0,76; for M20: 0,74; for L: 0,75	
	Correction factors for loads from wall coverings		k_2 = 0,49 for element thickness D = 80 mm and distance of system screws <240 mm	
			k_2 = 0,65 for element thickness D = 80 mm and distance of system screws >240 mm	
			k_2 = 0,9 for element thickness D = 160 mm	
			For sandwich elements with D > 80 mm and D < 160 mm, the k_2 factor should be linearly interpolated.	
Thermal conductivity λ_D [W/m*K]			0,022	
Thermal transmittance $U_{d,S}$ [W/m²*K]			0,27	0,22
Reaction to fire			B-s1,d0	
Fire resistance	Vertical		E 15 / EI 15	E 30 / EI 30 / EW 30
	Horizontal		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 Rw (C, C_{tr}) [dB]			25 (-2;-4)	
Sound absorption α_w			0,15	

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

Parameter	Value
Fire spread	Non-Fire-Spread

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