ARPANEL

CE

DECLARATION OF PERFORMANCE OF THE „ARPANEL" SANDWICH PANELS

NR. DWU/XCH 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 XCH 120 PIR, ARPANEL XCH 140 PIR, ARPANEL XCH 160 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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NIP: 756-18-36-633
REGON: 532242263
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/XCH PIR/01/2026/EN

Panel thickness [mm]			120	140	160
Dimensional tolerances			± 2 %		
Mass [kg/m2]			14,2	15,1	15,9
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	98	95
Compressive strength (core) f_{cc} [kPa]			100		
Shear strength (core) f_{cv} [kPa]			120	113	105
Shear modulus (core) G_c [MPa]			3,1	2,9	2,7
Transverse shear strength $f_{cv,quer}$ [kPa]			85	83	80
Transverse shear modulus $G_{c,quer}$ [MPa]			1,30	1,40	1,50
Creep coefficient		t= 2.000 h	3,0		
		t= 100.000 h	5,0		
Wrinkling stress [MPa]	in span	external face	M14: 195	M14: 195	M14: 195
		external face T>80°C	M14: 158	M14: 158	M14: 158
		internal face	L:134; G:63; M20:184	L:129; G:62; M20:177	L:124; G:60; M20:169
	at central support	external face	M14: 137	M14: 132	M14: 127
		external face T>80°C	M14: 111	M14: 107	M14: 103
		internal face	L:114; G:54; M20:133	L:108; G:52; M20:123	L:102 G:50; M20:113
	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]			0,18	0,16	0,14
Reaction to fire			B-s1,d0		
Fire resistance*		Vertical	E 30 / EI 30		
		Horizontal	E 30 / EI 30 / EW 30		
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]			24 (-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		
λ_{design} [W/m*K] (0°C)	0,021		
$U_{d,S}$ [W/m²*K] (0°C)	0,17	0,15	0,13

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