



DECLARATION OF PERFORMANCE OF THE „ARPANEL” SANDWICH PANELS

NO. DWU/D PIR/01/2021/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 D 40/80 PIR, ARPANEL D 60/100, PIR ARPANEL D 80/120 PIR, ARPANEL D 100/140 PIR, ARPANEL D 120/160 PIR, ARPANEL D 160/200 PIR SANDWICH PANELS with polyisocyanurate foam core.
3	Intended use, in accordance with the applicable harmonized technical specification	The ARPANEL D sandwich panels are intended for roof coverings in buildings with a frame construction
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, 14-01-2020



Annex 1 to the Declaration of performance NO. DWU/D PIR/01/2021/EN

Panel thickness [mm]	40/80	60/100	80/120	100/140	120/160	160/200	Harmonized technical specification
Dimensional tolerances	± 2 mm		± 2 %				PN-EN 14509:2013
Mass [kg/m ²]	10,5	11,3	12,1	12,9	13,7	14,7	
Density of core material (PIR foam) [kg/m ³]	40±3						PN-EN 14509:2013
External/Internal Facing - Steel grade	S280GD+Z; S250GD+Z; S220GD+Z						PN-EN 14509:2013
Coating type	SP25, Food Safe (PVC), PRISMA, HPS, HDX						PN-EN 14509:2013
Thickness of facing material [mm]	External: 0,5 - 0,7			Internal: 0,4 - 0,7			PN-EN 14509:2013
Facing profile	External: T			Internal: G, L			
Mechanical properties:							
Cross panel tensile strength f_{ct} [kPa]	100	100	100	100	100	95	PN-EN 14509:2013
Compressive strength (core) f_{cc} [kPa]	100	100	100	100	100	100	
Shear strength (core) f_{cv} [kPa]	150	120	120	120	120	105	
Shear modulus (core) G_c [MPa]	3,7	3,1	3,1	3,1	3,1	2,7	
Creep coefficient	t= 2.000 h		3,0				
	t= 100.000 h		5,0				
Other properties:							
Thermal conductivity λ_D [W/m*K]	0,022						PN-EN 14509:2013
Thermal transmittance $U_{d,s}$ [W/m ² *K]	0,48	0,33	0,26	0,21	0,18	0,13	PN-EN 14509:2013
Reaction to fire	B-s2,d0						PN-EN 14509:2013
Fire resistance	NPD			REI 30 / RE 60			PN-EN 14509:2013
Fire-spread	Broof (t ₁)			Broof (t ₁), (t ₃)		Broof (t ₁)	PN-EN 14509:2013
Water permeability [class]	A						PN-EN 14509:2013
Air permeability	Positive pressure		C = 1,2824; n = 0,1683				PN-EN 14509:2013
	Negative pressure		C = 0,3920; n = 0,2373				
Airborne sound insulation R_w (C, C _{tr}) [dB]	25 (-1;-4)					NPD	PN-EN 14509:2013
Sound absorption α_w	0,15					NPD	PN-EN 14509:2013