



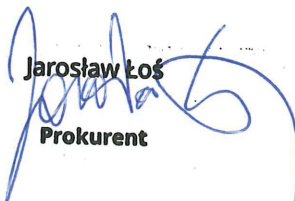
# DECLARATION OF PERFORMANCE OF THE „ARPANEL” SANDWICH PANELS

NO. DWU/CH PIR/01/2020/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:	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, 08-05-2020

**Annex 1 to the Declaration of performance NO. DWU/CH PIR/01/2020/EN**

Panel thickness [mm]	120	140	160	200	Harmonized technical specification
Dimensional tolerances	± 2 %				PN-EN 14509:2013
Mass [kg/m <sup>2</sup> ]	13,1	13,8	14,5	15,9	
Density of core material (PIR foam) [kg/m <sup>3</sup> ]	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, INOX, PVDF				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: G, L, M8, M14		Internal: G, L		
<b>Mechanical properties:</b>					
Cross panel tensile strength $f_{ct}$ [kPa]	100	98	95	90	PN-EN 14509:2013
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			
<b>Other properties:</b>					
Thermal conductivity $\lambda_D$ [W/m*K]	0,022				PN-EN 14509:2013
Thermal transmittance $U_{d,s}$ [W/m <sup>2</sup> *K]	0,18	0,16	0,14	0,11	PN-EN 14509:2013
Reaction to fire	B-s1,d0				PN-EN 14509:2013
Fire resistance*	Vertical	E 30 / EI 30		E 60 / EI 45 / EW 60	PN-EN 14509:2013
	Horizontal	E 30 / EI 30 / EW 30		E 45 / EI 45 / EW 45	
Water permeability [class]	A				PN-EN 14509:2013
Air permeability	Positive pressure	C = 0,2630; n = 0,5313			PN-EN 14509:2013
	Negative pressure	C = 0,0227; n = 0,4764			
Airborne sound insulation $R_w$ (C, C <sub>tr</sub> ) [dB]	24 (-2;-4)				PN-EN 14509:2013
Sound absorption $\alpha_w$	0,15				PN-EN 14509:2013

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

Parameter	Value				Technical specification
Fire-spread	non-fire spreading				PN-B-02867
$\lambda_{design}$ [W/m*K] (0°C)	0,021				PN-EN 14509:2013
$U_{d,s}$ [W/m <sup>2</sup> *K] (0°C)	0,17	0,15	0,13	0,10	PN-EN 14509:2013

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