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ARPANEL

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

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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^2]		13,1	13,8	14,5	15,9	
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, 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		
Mechanical properties:						
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				
Other properties:						
Thermal conductivity λ_D [W/m*K]		0,022				PN-EN 14509:2013
Thermal transmittance $U_{d,S}$ [W/m^2*K]		0,18	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 Rw (C, C_{tr}) [dB]		24 (-2;-4)				PN-EN 14509:2013
Sound absorption α_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
λ_{design} [W/m*K] (0°C)	0,021				PN-EN 14509:2013
$U_{d,S}$ [W/m^2*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

ARPANEL - Sandwich panels
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