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ARPANEL

DECLARATION OF PERFORMANCE OF THE „ARPANEL" SANDWICH PANELS

NO. DWU/D PIR/02/2022/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, 28-11-2022

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Annex 1 to the Declaration of performance **NO. DWU/D PIR/02/2022/EN**

Panel thickness [mm]			40/80	60/100	80/120	100/140	120/160	160/200
Dimensional tolerances			± 2 mm		± 2 %			
Mass [kg/m2]			9,8	10,6	11,3	12,1	12,9	14,4
Density of core material (PIR foam) [kg/m^3]			40±3					
External/Internal Facing - Steel grade			S280GD+Z; S250GD+Z; S220GD+Z					
Coating type			SP25, Food Safe (PVC), PRISMA, HPS, HDX, PVDF, PUR/PA					
Thickness of facing material [mm]			External: 0,5 - 0,7			Internal: 0,4 – 0,7		
Facing profile			External: T			Internal: G, L, M20		
Cross panel tensile strength f_{ct} [kPa]			100	100	100	100	100	95
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					
Wrinkling stress [MPa]	in span	external face	T:266	T:258	T:250	T:239	T:227	T:208
		external face >80°C	T:266	T:258	T:250	T:239	T:227	T:208
		internal face	L:134 G:67 M20:184	L:134 G:63 M20:184	L:134 G:63 M20:184	L:134 G:63 M20:184	L:134 G:63 M20:184	L:124 G:60 M20:169
	At central support	external face	T:266	T:258	T:250	T:239	T:227	T:208
		external face >80°C	T:266	T:258	T:250	T:239	T:227	T:208
		internal face	L:121 G:60 M20:156	L:119 G:54 M20:150	L:118 G:54 M20:145	L:116 G:54 M20:139	L:114 G:54 M20:133	L:102 G:50 M20:113
	Correction factors for the thickness of the facing		t: 0,6 mm for L: 0,84 t :0,7 mm for L: 0,75					
Thermal conductivity λ_D [W/m*K]			0,022					
Thermal transmittance $U_{d,S}$ [W/m^2*K]			0,48	0,33	0,26	0,21	0,18	0,13
Reaction to fire			B-s2,d0					
Fire resistance			NPD			REI 30 / RE 60		
Fire-spread			Broof (t_1)			Broof (t_1), (t_3)		Broof (t_1)
Water permeability [class]			A					
Air permeability	Positive pressure		C = 1,2824; n = 0,1683					
	Negative pressure		C = 0,3920; n = 0,2373					
Airborne sound insulation Rw (C, Ctr) [dB]			25 (-1;-4)					NPD
Sound absorption α_w			0,15					NPD

ARPANEL - Sandwich panels
Adamietz Sp. z o.o.
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