CE

ARPANEL

DECLARATION OF PERFORMANCE OF THE „ARPANEL" SANDWICH PANELS

NO. DWU/CH PIR/01/2024/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:	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, 27-02-2024

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Annex 1 to the Declaration of performance **NO. DWU/CH PIR/01/2024/EN**

Panel thickness [mm]			120	140	160	200
Dimensional tolerances			± 2 %			
Mass [kg/m^2]			12,6	13,4	14,2	15,7
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: G, L , M8, M14, M30		Internal: G, L, M20	
Cross panel tensile strength f_{ct} [kPa]			100	98	95	90
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			
Wrinkling stress [MPa]	in span	external face	M8/M14:195 L:134 G:63	M8/M14:195 L:129 G:61	M8/M14:195 L:124 G:60	M8/M14:195 L:113 G:57
		external face >80°C	M8/M14:158 L:109 G:51	M8/M14:158 L:105 G:50	M8/M14:158 L:101 G:49	M8/M14:158 L:92 G:46
		internal face	L:134 G:63 M20:184	L:129 G:62 M20:177	L:124 G:60 M20:169	L:113 G:57 M20:154
	At central support	external face	M8/M14:137 L:90 G:44	M8/M14:132 L:85 G:42	M8/M14:127 L:79 G:39	M8/M14:117 L:68 G:34
		external face >80°C	M8/M14:111 L:73 G:36	M8/M14:107 L:69 G:34	M8/M14:103 L:64 G:32	M8/M14:95 L:55 G:28
		internal face	L:114 G:54 M20:133	L:108 G: 52 M20:123	L:102 G:50 M20:113	L:90 G:46 M20:92
	Correction factors for the thickness of the facing		t=0,6 mm for M8/14: 0,85 for M20: 0,83 for L: 0,84 t=0,7 mm for M8/14:0,76 for M20:0,74 for L: 0,75			
Thermal conductivity λ_D [W/m*K]			0,022			
Thermal transmittance $U_{d,s}$ [W/m^2*K]			0,18	0,16	0,14	0,11
Reaction to fire			B-s2,d0			
Fire resistance*		Vertical	E 30 / EI 30			E 60 / EI 45 / EW 60
		Horizontal	E 30 / EI 30 / EW 30			E 45 / EI 45 / EW 45
Water permeability [class]			A			
Air permeability		Positive pressure	C = 0,2630; n = 0,5313			
		Negative pressure	C = 0,0227; n = 0,4764			
Airborne sound insulationRw (C, Ctr) [dB]			24 (-2;-4)			
Sound absorption α_w			0,15			

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

Parameter	Value			
Fire-spread	non-fire spreading			
λ_{design} [W/m*K] (0°C)	0,021			
$U_{d,s}$ [W/m^2*K] (0°C)	0,17	0,15	0,13	0,10

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

ARPANEL - Sandwich panels
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