



DECLARATION OF PERFORMANCE OF THE „ARPANEL” SANDWICH PANEL

NO. DWU/SU/PIR/01/2022/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 SU 60 PIR, ARPANEL SU 80 PIR, ARPANEL SU 100 PIR, ARPANEL SU 120 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 and partitions |
| 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, 2022-02-11

ARPANEL - Sandwich panels

Adamietz Sp. z o.o.

47-100 Strzelce Opolskie

ul. Braci Prankel 1

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Division, National Court Register No.:

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**Annex 1 to the Declaration of performance NO. DWU/SU PIR/01/2022/EN**

| | | | | | | |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|
| Panel thickness [mm] | | 60 | 80 | 100 | 120 | |
| Dimensional tolerances | | ± 2 mm | | ± 2 % | | |
| Mass [kg/m ²] | | 11,0 | 11,7 | 12,5 | 13,2 | |
| Density of core material (PIR foam) [kg/m ³] | | 40±3 | | | | |
| External/Internal Facing - Steel grade | | S280GD+Z; S250GD+Z; S220GD+Z | | | | |
| Coating type | | PURPA, SP25, Food Safe (PVC), PRISMA, HPS, HDX, PVDF | | | | |
| Thickness of facing material [mm] | | External: 0,5 - 0,7 | | Internal: 0,4 - 0,7 | | |
| Facing profile | | External: G, L, M8, M14 | | Internal: G, L | | |
| Cross panel tensile strength f_{ct} [kPa] | | 100 | 100 | 100 | 100 | |
| Compressive strength (core) f_{cc} [kPa] | | 100 | 100 | 100 | 100 | |
| Shear strength (core) f_{cv} [kPa] | | 120 | 120 | 120 | 120 | |
| Shear modulus (core) G_c [MPa] | | 3,1 | 3,1 | 3,1 | 3,1 | |
| Wrinkling stress [MPa] | in span | external face | M8/M14:160 L:134 G:63 | M8/M14:172 L:134 G:63 | M8/M14:183 L:134 G:63 | M8/M14:195 L:134 G:63 |
| | | external face >80°C | M8/M14:130 L:109 G:51 | M8/M14:139 L:109 G:51 | M8/M14:148 L:109 G:51 | M8/M14:158 L:109 G:51 |
| | | internal face | L:134 G:63 M20:184 | L:134 G:63 M20:184 | L:134 G:63 M20:184 | L:134 G:63 M20:184 |
| | At central support | external face | M8/M14:123 L:98 G:44 | M8/M14:128 L:96 G:44 | M8/M14:132 L:93 G:44 | M8/M14:137 L:90 G:44 |
| | | external face >80°C | M8/M14:100 L:79 G:36 | M8/M14:104 L:77 G:36 | M8/M14:107 L:75 G:36 | M8/M14:111 L:73 G:36 |
| | | internal face | L:119 G:54 M20:150 | L:118 G:54 M20:145 | L:116 G:54 M20:139 | L:114 G:54 M20:133 |
| | 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] | | 0,40 | 0,29 | 0,23 | 0,19 |
| Reaction to fire | | B-s1,d0 | | | | |
| Fire resistance* | Vertical | NPD | | E 30 / EI 20 / EW 30 | E30 / EI 30 / EW 30 | |
| | Horizontal | NPD | | E30 / EI20 / EW 30 | | |
| Water permeability [class] | | A | | | | |
| Air permeability | Positive pressure | C = 0,1136; n = 0,2931 | | | | |
| | Negative pressure | C = 0,2451; n = 0,1187 | | | | |
| Airborne sound insulation R_w (C, Ctr) [dB] | | 25 (-2;-4) | | | | |
| Sound absorption α_w | | 0,15 | | | | |
| <u>Additional performance not included in the list of relevant clauses in accordance with PN-EN 14509:</u> | | | | | | |
| Parameter | | Value | | | | |
| Fire-spread | | non-fire spreading | | | | |