



# DECLARATION OF PERFORMANCE OF THE „ARPANEL” SANDWICH PANEL

NO. DWU/S PIR/01/2020/EN

|   |  |  |
|---|--|--|
| 1 | Name and address of manufacturer   | Adamietz Sp. z o.o.<br>47 – 100 Strzelce Opolskie<br>ul. Braci Prankel 1<br>Poland   |
| 2 | Unique identification code of the product-type                                     | <b>ARPANEL S 40 PIR, ARPANEL S 60 PIR, ARPANEL S 80 PIR, ARPANEL S 100 PIR SANDWICH PANELS</b> with a 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<br>IMA Materialforschung und Anwendungstechnik GmbH Dresden – No. 2456<br>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, 11-08-2020



## Annex 1 to the Declaration of performance NO. DWU/S PIR/01/2020/EN

| Panel thickness [mm]   | 40  | 60                     | 80                  | 100                 | Harmonized technical specification |
|--|---|------------------------|---------------------|---------------------|------------------------------------|
| Dimensional tolerances   | ± 2 mm  |                        |                     |                     | PN-EN 14509:2013                   |
| Mass [kg/m <sup>2</sup> ]  | 10,0  | 10,7                   | 11,6                | 12,7                |                                    |
| 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   | 100                    | 100                 | 100                 | PN-EN 14509:2013                   |
| Compressive strength (core) $f_{cc}$ [kPa]   | 100   | 100                    | 100                 | 100                 |                                    |
| Shear strength (core) $f_{cv}$ [kPa]   | 150   | 120                    | 120                 | 120                 |                                    |
| Shear modulus (core) $G_c$ [MPa]   | 3,7   | 3,1                    | 3,1                 | 3,1                 |                                    |
| 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]  | 0,58  | 0,37                   | 0,27                | 0,22                | PN-EN 14509:2013                   |
| Reaction to fire   | B-s1,d0   |                        |                     |                     | PN-EN 14509:2013                   |
| Fire resistance*   | Vertical  | NPD                    | E 15 / EI 15        | E 30 / EI 30 / EW30 | PN-EN 14509:2013                   |
|  | Horizontal  | NPD                    | E 20 / EI 20 / EW20 | E 30 / EI 30 / EW30 |                                    |
| 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]   | 25 (-2;-4)  |                        |                     |                     | PN-EN 14509:2013                   |
| Sound absorption $\alpha_w$  | 0,15  |                        |                     |                     | PN-EN 14509:2013                   |
| <b>Additional performance not included in the list of relevant clauses in accordance with PN-EN 14509:</b> |   |                        |                     |                     |                                    |
| Parameter  | Value   |                        |                     |                     | Technical specification            |
| Fire-spread  | non-fire spreading                                  |                        |                     |                     | PN-B-02867                         |

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