

DECLARATION OF PERFORMANCE No. 09/2022 rev. 1 from 04.08.2023  
According to regulation (UE) No. 305/2011

1. **Name and unique identification of the construction product type:**

Marcegaglia sandwich panels in steel cladding with a core of polyisocyanurate rigid foam PIR 100 PDD, PSS, PLL and similar of thickness: 40 mm.

2. **Intended use or uses:**

Insulating-structural sandwich panels in steel cladding are designed for use in buildings as external walls, internal walls and ceilings.

3. **Name and registered address of the manufacturer and place of manufacture of the product:**

MARCEGAGLIA POLAND Sp. z o. o.; ul. Kaliska 72; 46-320 Praszka  
Production Plant in Praszka; ul. Kaliska 72; 46-320 Praszka

4. **Name and registered address of the authorized representative:** Not applicable.

5. **Application system for assessment and verification of constancy of performance:**

Conformity assessment system 4

6. **Harmonized standard:**

PN – EN 14509:2013

**Notified bodies involved in product type testing.**

Not applicable

The performance characteristics of the product specified above are in accordance with all the declared performance characteristics listed in subsection 7. This declaration of performance has been issued in accordance with regulation (EU) No. 305/2011 under the sole responsibility of the manufacturer.

7. **Declared of performance:**

Appendix 1

**MARCEGAGLIA POLAND**

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**Appendix 1 to DoP No. 09/2022 rev. 1 from 04.08.2023**

| Product type   | 100 PDD, PSS, PLL and others similar thickness 40 mm |         |         |
|--|--|---------|---------|
| Thickness of external, $t_{N1}$ / internal cladding, $t_{N2}$ , [mm] | 0,5/0,5  | 0,5/0,4 | 0,4/0,4 |
| Insulation core  | PIR  |         |         |
| Density, [kg/m <sup>3</sup> ]  | 40 +/- 3   |         |         |
| Weight, [kg/m <sup>2</sup> ]   | 9,5  | 8,7     | 7,8     |
| Application  | WALLS  |         |         |
| Type and weight of metallic coatings                                 | Z 100, Z 140, Z 187, Z 275                           |         |         |
| Type of external coating / steel grade                               | MP1, MP3, MP20, PVC, PVDF, INOX/S 280GD, DX51D       |         |         |
| Type of internal coating / steel grade                               | MP1, MP3, MP20, PVC, PVDF, INOX/S 280GD, DX51D       |         |         |
| Thermal conductivity coefficient, $\lambda_D$ , [W/mK]               | 0,022  |         |         |
| Thermal transmittance coefficient, $U_{d,s}$ , [W/m <sup>2</sup> K]  | 0,57   |         |         |
| Mechanical resistance  |  |         |         |
| Tensile strength, $f_{ct}$ , [MPa]                                   | 0,090*   |         |         |
| Shear strength, $f_{cv}$ , [MPa]                                     | 0,060*   |         |         |
| Shear modulus of elasticity (core), $G_c$ , [MPa]                    | 1,40*  |         |         |
| Compressive strength (core), $f_{cc}$ , [MPa]                        | 0,100  |         |         |
| Bending resistance in the span*                                      |  |         |         |
| positive bending, [kNm/m]  | 0,69   |         |         |
| positive bending - elevated temperature, [kNm/m]                     | 0,51   |         |         |
| negative bending, [kNm/m]  | 0,55   |         |         |
| negative bending - elevated temperature, [kNm/m]                     | 0,40   |         |         |
| Bending resistance at an internal support*                           |  |         |         |
| positive bending, [kNm/m]  | 0,57   |         |         |
| positive bending - elevated temperature, [kNm/m]                     | 0,42   |         |         |
| negative bending, [kNm/m]  | 0,45   |         |         |
| negative bending - elevated temperature, [kNm/m]                     | 0,33   |         |         |
| Wrinkling strength (external cladding)*                              |  |         |         |
| in the span, [MPa]   | 46   |         |         |
| in the span - elevated temperature, [MPa]                            | 34   |         |         |
| at a support for suction loads, [MPa]                                | 30   |         |         |
| at a support for suction loads - elevated temperature, [MPa]         | 22   |         |         |
| Wrinkling strength (internal cladding)*                              |  |         |         |
| in the span, [MPa]   | 36   |         |         |
| at an internal support for loads pressing on a support, [MPa]        | 38   |         |         |
| Reaction to fire   | NPD  |         |         |
| Fire resistance performance  | Horizontal   | NPD     |         |
|  | Vertical   | NPD     |         |
| External fire performance  | -  |         |         |
| Water permeability   | NPD  |         |         |
| Air permeability   | NPD  |         |         |
| Water vapor permeability   | PASS   |         |         |
| Airborne sound insulation, $R_w(C;C_{tr})$ , [dB]                    | NPD  |         |         |
| Sound absorption, $\alpha_w$   | NPD  |         |         |
| Durability   | PASS – all colors                                    |         |         |

\* data, transferred on the discretionary basis from Declaration of Performance issued by Marcegaglia Buildtech S.r.l. of 19.03.2018.

PRASZKA, 04.08.2023  
(place and date of issue)

.....  
(name and signature of authorized person)

Registered seat:  
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