

This declaration of performance concerns to **GS insPIRe S** products - Self-supporting double skin metal faced insulating panels with PIR core (galvanized or stainless steel faces, yield strength ≥ 220 N/mm²), thickness (outer/inner) min. 0,5 / 0,4 mm and for all organic coatings. Modular width: 1000 or 1140 mm. Facing profile: L(linear), M(microprofiling), F(wavy), R(grooving), P(smooth). Certificate of constancy of performance no. 1487-CPR-174-02 issued by notified body ICiMB (no. 1487).



DECLARATION OF PERFORMANCE

nr S/03/2022



Unique identification code of the product-type:

GS insPIRe S [thickness d_N] [modulus: 1000 or 1140] [outer/inner profilation: L,M,F,R,P / L,P]

Harmonised standard: EN 14509:2013

System/s of AVCP: System 1

Notified body/ies: ICiMB (No. 1487), Certbud (No. 2310)

Intended use/es: Internal and external walls, ceilings

Manufacturer:: GÓR-STAL Sp. z o.o., ul. Przemysłowa 11, 38-300 Gorlice, POLAND

Declared performance/s:

| Unique identification code of the product-type /Name | | | GS insPIRe S40 | GS insPIRe S60 | GS insPIRe S80 | GS insPIRe S100 | GS insPIRe S120 | Classification | | | | |
|--|--|----------|---|----------------|----------------|-----------------|-----------------|----------------|-------|-------|-------|-------|
| Thickness | | | 40 mm | 60 mm | 80 mm | 100 mm | 120 mm | | | | | |
| Essential characteristics / Parameters | | | Value of parameters | | | | | EN 14509:2013 | | | | |
| Thermal properties | | | | | | | | | | | | |
| Thermal conductivity, λ_D | | | W/m·K | | | | | 0,022 | | | | |
| Thermal transmittance, $U_{d,S}$ | | | W/m ² ·K | | | | | 0,60 | 0,38 | 0,28 | 0,22 | 0,19 |
| Mechanical properties | | | | | | | | | | | | |
| Compressive strength (core) | | | MPa | | | | | 0,10 | | | | |
| Tensile strength | | | MPa | | | | | 0,060 | | | | |
| Shear strength | | | MPa | | | | | 0,13 | 0,12 | 0,10 | 0,10 | 0,10 |
| Shear modulus (core) | | | MPa | | | | | 3,2 | 3,2 | 3,0 | 2,9 | 2,8 |
| Bending resistance in the span | | positiv. | elevated ambient temperature | kN·m | 3,03 | 4,54 | 6,06 | 7,57 | 9,09 | | | |
| Bending resistance in the span | | negativ. | | | 1,60 | 2,40 | 3,20 | 4,00 | 4,80 | | | |
| Bending resist. at an internal support | | positiv. | kN·m | 1,74 | 2,61 | 3,48 | 4,36 | 5,23 | | | | |
| Bending resist. at an internal support | | negativ. | | 1,95 | 2,93 | 3,91 | 4,89 | 5,86 | | | | |
| Bending resistance in the span | | positiv. | kN·m | 2,96 | 4,44 | 5,93 | 7,41 | 8,90 | | | | |
| Bending resistance in the span | | negativ. | | 1,56 | 2,35 | 3,13 | 3,92 | 4,70 | | | | |
| Bending resist. at an internal support | | positiv. | kN·m | 1,70 | 2,55 | 3,41 | 4,27 | 5,12 | | | | |
| Bending resist. at an internal support | | negativ. | | 1,91 | 2,87 | 3,83 | 4,79 | 5,74 | | | | |
| Creep coefficient | | | for t=2.000h: 0,84 (dla 0,5/0,5); 1,22 (dla 0,5/0,4) | | | | | | | | | |
| | | | for t=100.000h: 1,38 (dla 0,5/0,5); 2,04 (dla 0,5/0,4) | | | | | | | | | |
| Reduced long term shear strength (40%) | | | kPa | | | | | 0,052 | 0,048 | 0,040 | 0,040 | 0,040 |
| Reaction to fire (all applications) | | | B-s1,d0 | | | | | | | | | |
| Fire resistance - horizontally | | | NPD | | EI 15 | | EI 30 | | | | | |
| Fire resistance - vertically | | | NPD | | EI 20 / EI15 | | | | | | | |
| Water permeability | | | NPD | | | | | | | | | |
| Water vapour permeability | | | „Impermeable” | | | | | | | | | |
| Air permeability | | | NPD | | | | | | | | | |
| Airborne sound insulation | | | 23(-2,-3) dB | | | | | | | | | |
| Sound absorption | | | 0,1 dB | | | | | | | | | |
| Dimensional tolerances | | | „Pass” (Thickness: ± 2 mm for ≤ 100 mm and 2% for ≥ 100 mm) | | | | | | | | | |
| Durability | | | „Pass” | | | | | | | | | |
| Dengerous substances | | | NPD | | | | | | | | | |

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.

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GŁÓWNY TECHNOLOG

Bartłomiej Bochnia

At Gorlice, on 28.02.2022

signed for and behalf of the manufacturer by