*EN, This declaration of performance concerns to **GS insPIRe S MAX** - 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 issuead by notified body ICiMB (no. 1487).*

# DECLARATION OF PERFORMANCE

nr **S/MAX/03/2022**

**Unique identification code of the product-type:**

**GS insPIRe S** [*thickness* $d_N$] **MAX** [*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), FIRES (Nr 1396)

**Intended use/es:** Internel 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 S80 MAX | GS insPIRe S100 MAX | GS insPIRe S120 MAX | Classification |
|---|---|---|---|---|---|---|---|
| | | | | *module:* **1000, 1140**, *profil.:* **L,M,F,R,P / L,P** | | | |
| *Thickness* | | | | ***80*** *mm* | ***100*** *mm* | ***120*** *mm* | |
| **Essential characteristics** / Parameters | | | | **Value of parameters** | | | |
| Thermal properties | | | | | | | EN 14509:2013 |
| Thermal conductivity, $\lambda_D$ | | | W/m·K | 0,019 | | | |
| Thermal transmittance, $U_{d,S}$ | | | W/m$^2$·K | 0,24 | 0,19 | 0,16 | |
| Mechanical properties | | | | | | | |
| Compressive strength (core) | | | MPa | 0,10 | | | |
| Tensile strength | | | MPa | 0,060 | | | |
| Shear strength | | | MPa | 0,10 | 0,10 | 0,10 | |
| Shear modulus (core) | | | MPa | 3,0 | 2,9 | 2,8 | |
| Bending resistance in the span | positiv. | ambient temperature | kN·m | 6,06 | 7,57 | 9,09 | |
| Bending resistance in the span | negativ. | ambient temperature | kN·m | 3,20 | 4,00 | 4,80 | |
| Bending resist. at an internal support | positiv. | ambient temperature | kN·m | 3,48 | 4,36 | 5,23 | |
| Bending resist. at an internal support | negativ. | ambient temperature | kN·m | 3,91 | 4,89 | 5,86 | |
| Bending resistance in the span | positiv. | elevated temperature | kN·m | 5,93 | 7,41 | 8,90 | |
| Bending resistance in the span | negativ. | elevated temperature | kN·m | 3,13 | 3,92 | 4,70 | |
| Bending resist. at an internal support | positiv. | elevated temperature | kN·m | 3,41 | 4,27 | 5,12 | |
| Bending resist. at an internal support | negativ. | elevated temperature | kN·m | 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 | 0,040 | 0,040 | 0,040 | |
| Reaction to fire (all applications) | | | | B-s1,d0 | | | |
| Fire resistance - horizontally | | | | NPD | | EI 30 | |
| Fire resistance - vertically | | | | NPD | | EI 30 / EW 30 | |
| 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: ±2mm for ≤100mm and 2% for ≥100mm)* | | | |
| 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.

" GÓR-STAL" Sp. z o.o.
38-300 Gorlice, ul. Przemysłowa 11
tel. 018 353 98 00
REGON 852712117 NIP 738-19-45-154

DYREKTOR ZAKŁADU
Piotr Grzywa

Gorlice, 01.07.2025

signed for and behalf of the manufacturer by