

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 issued 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: 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 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					
Thermal conductivity, λ_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
Bending resist. at an internal support		positiv. elevated temperature kN·m	3,48	4,36	5,23
Bending resist. at an internal support			negativ. elevated temperature kN·m	3,91	4,89
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
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
Creep coefficient		for $t=2.000h$: for $t=100.000h$:	0,84 (dla 0,5/0,5); 1,22 (dla 0,5/0,4) 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: $\pm 2mm$ for $\leq 100mm$ and 2% for $\geq 100mm$)			
Durability		„Pass”			
Dengerous substances		NPD			

EN 14509:2013

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.
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GLÓWNY TECHNOLOG
Bartłomiej Bochnia

At Gorlice, on 28.02.2022

signed for and behalf of the manufacturer by