

EN, 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/les: 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.	kn·m					
Bending resistance in the span								
Bending resist. at an internal support		negativ.	kn·m					
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Bending resistance in the span								
Bending resist. at an internal support		negativ.	kn·m					
Bending resist. at an internal support								
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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DYREKTOR ZAKŁADU
Piotr Grzywa

signed for and behalf of the manufacturer by