

This declaration of performance concerns to **GS insPIRe CH** 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

no. CH/03/2022



Unique identification code of the product-type:

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

Harmonised standard: EN 14509:2013

System/s of AVCP: System 1

Notified body/ies: ICiMB (No. 1487), ITB (No. 1488), FIRES (No. 1396), 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		GS insPIRe CH100	GS insPIRe CH120	GS insPIRe CH160	GS insPIRe CH200	Classification	
		modulus: 1000, 1140, profil.: L,M,F,R,P / L,P					
Thickness		100 mm	120 mm	160 mm	200 mm	EN 14509:2013	
Essential characteristics / Parameters		Value of parameters					
Thermal properties							
Thermal conductivity, λ_D		W/m·K	0,022				
Thermal transmittance, $U_{d,s}$		W/m ² ·K	0,22	0,18	0,14	0,11	
Mechanical properties							
Compressive strength (core)		MPa	0,10				
Tensile strength		MPa	0,060				
Shear strength		MPa	0,10	0,10	0,085	0,080	
Shear modulus (core)		MPa	2,9	2,8	2,5	2,4	
Bending resistance in the span		positiv. negativ.	kN·m	7,57 4,00	9,09 4,80	12,12 6,40	15,15 8,00
Bending resistance in the span							
Bending resist. at an internal support		positiv. negativ.	kN·m	4,36 4,89	5,23 5,86	6,97 7,82	8,72 9,78
Bending resist. at an internal support							
Bending resistance in the span		positiv. negativ.	kN·m	7,41 3,92	8,90 4,70	11,87 6,27	14,84 7,84
Bending resistance in the span							
Bending resist. at an internal support		positiv. negativ.	kN·m	4,27 4,79	5,12 5,74	6,83 7,66	8,54 9,58
Bending resist. at an internal support							
Creep coefficient		for t=2.000h:	0,84 (for 0,5/0,5); 1,22 (for 0,5/0,4)				
		for t=100.000h:	1,38 (for 0,5/0,5); 2,04 (for 0,5/0,4)				
Reduced long term shear strength (40%)		MPa	0,040	0,040	0,034	0,032	
Reaction to fire (all applications)		B-s1,d0 B-s2,d0 (with EPDM gasket)					
Fire resistance - horizontally		EI 30 / EW 30					
Fire resistance - vertically		E30 / EI20 / EW30	EI 30 / EW 30				
Water permeability		NPD					
Water vapour permeability		„Impermeable”					
Air permeability		NPD					
Air permeability (with EPDM gasket)		(+)	C=0,0031 m3/(hPa·n), n=0,8004				
		(-)	C=0,0528 m3/(hPa·n), n=0,3110				
Airborne sound insulation		23(-2,-3) dB					
Sound absorption		0,1 dB					
Dimensional tolerances		„Pass” (Thickness: $\pm 2\%$)					
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.
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GŁÓWNY TECHNOLOG
Bartłomiej Bochnia

At Gorlice, on 28.02.2022

signed for and behalf of the manufacturer by