

This declaration of performance concerns to **GS insPIRe CH** products (name change from **Gorlicka CH GS-PIR**) - 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), G(smooth). Certificate of constancy of performance no. 1487-CPR-174-02 issued by notified body ICiMB (no. 1487).



DECLARATION OF PERFORMANCE

no. CH/01/2020



Unique identification code of the product-type:

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

Harmonised standard: EN 14509:2013

System/s of AVCP: System 1

Notified body/ies: ICiMB (No. 1487), ITB (No. 1488), Certbud (No. 2310), FIRES (No. 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				GS insPIRe CH100	GS insPIRe CH120	GS insPIRe CH160	GS insPIRe CH200	Classification	
				modulus: 1000, 1140, profil.: L,M,F,R,G / L,G					
Thickness				100 mm	120 mm	160 mm	200 mm		
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	0,12				
	Tensile strength			MPa	0,06				
	Shear strength			MPa	0,100	0,100	0,085	0,080	
	Shear modulus (core)			MPa	2,9	2,8	2,5	2,4	
	Bending resistance in the span		positiv.	ambient temperature	kN·m	7,50	9,10	7,20	9,00
	Bending resistance in the span		negativ.			5,80	7,00	4,90	6,20
	Bending resist. at an internal support		positiv.			4,70	5,70	6,40	8,10
	Bending resist. at an internal support		negativ.			4,20	5,10	6,00	7,50
	Bending resistance in the span		positiv.	elevated temperature	kN·m	5,70	6,92	5,47	6,84
	Bending resistance in the span		negativ.			4,41	5,32	3,72	4,71
	Bending resist. at an internal support		positiv.			3,57	4,33	4,86	6,16
	Bending resist. at an internal support		negativ.			3,19	3,88	4,56	5,70
	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	
	Resistance to point loads				1,2 kN				
	Resistance to access loads				NPD				
Reaction to fire (all applications)				B-s1,d0 B-s2,d0 (with EPDM gasket)					
Fire resistance (Details in classification)				EI 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 (0,03 [m3/m*h] for $\Delta p=50$ [kPa])					
			(-)	C=0,0528 m3/(hPa^n), n=0,3110 (0,06 [m3/m*h] for $\Delta p=50$ [kPa])					
Airborne sound insulation				23(-2,-3) dB					
Sound absorption				0,1 dB					
Dimensional tolerances				„Pass” (Thickness: $\pm$ 2%)					
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

Barthomiej Bochnia

signed for and on behalf of the manufacturer by

Gorlice, 03.02.2020

miejscowość i data