

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/02/2020



Unique identification code of the product-type:

GS insPIRe CH [thickness d_N] [modulus: 1000 or 1140] [outer/inner profil.: L,M,F,R,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		
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		0,1			
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.	kN·m	7,50	9,10	7,20	9,00	EN 14509:2013
Bending resistance in the span		negativ.						
Bending resist. at an internal support		positiv.	kN·m	4,70	5,70	6,40	8,10	
Bending resist. at an internal support		negativ.						
Bending resistance in the span		positiv.	kN·m	5,70	6,92	5,47	6,84	
Bending resistance in the span		negativ.						
Bending resist. at an internal support		positiv.	kN·m	3,57	4,33	4,86	6,16	
Bending resist. at an internal support		negativ.						
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 - 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 m ³ /(hPa·n), n=0,8004 (0,03 [m ³ /m·h] for $\Delta p=50$ [kPa])					
		(-)	C=0,0528 m ³ /(hPa·n), n=0,3110 (0,06 [m ³ /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			

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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GŁÓWNY TECHNOLOG
Bartłomiej Bochnia

Gorlice, 20.07.2020
miejsowość i data

signed for and behalf of the manufacturer by