

This declaration of performance concerns to **GS insPIRe CH MAX** 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/MAX/02/2020



Unique identification code of the product-type:

GS insPIRe CH [thickness d_N] **MAX** [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), 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 MAX	GS insPIRe CH120 MAX	GS insPIRe CH160 MAX	GS insPIRe CH200 MAX	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	0,019				
Thermal transmittance, $U_{d,s}$			W/m ² ·K	0,19	0,16	0,12	0,10	
Mechanical properties								
Compressive strength (core)			MPa	0,10				
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.	kN·m	4,20	5,10	6,00	7,50	
Bending resistance in the span		positiv.	kN·m	5,70	6,92	5,47	6,84	
Bending resistance in the span		negativ.	kN·m	4,41	5,32	3,72	4,71	
Bending resist. at an internal support		positiv.	kN·m	3,57	4,33	4,86	6,16	
Bending resist. at an internal support		negativ.	kN·m	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				
Fire resistance - horizontally				EI 30 / EW 30				
Fire resistance - vertically			NPD	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 ² h] for $\Delta p=50$ [kPa])				
		(-)		C=0,0528 m ³ /(hPa ⁿ), n=0,3110 (0,06 [m ³ /m ² 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

miejscowość i data

signed for and behalf of the manufacturer by