

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/03/2022



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	EN 14509:2013	
Essential characteristics / Parameters		Value of parameters					
Thermal properties							
Thermal conductivity, λ_D		W/m·K				0,019	
Thermal transmittance, $U_{d,s}$		0,19	0,16	0,12	0,10		
Mechanical properties							
Compressive strength (core)		MPa				0,10	
Tensile strength		MPa				0,060	
Shear strength		0,10	0,10	0,085	0,080		
Shear modulus (core)		2,9	2,8	2,5	2,4		
Bending resistance in the span	positiv.	ambient temperature	kN·m	7,57	9,09	12,12	15,15
Bending resistance in the span	negativ.			4,00	4,80	6,40	8,00
Bending resist. at an internal support	positiv.	ambient temperature	kN·m	4,36	5,23	6,97	8,72
Bending resist. at an internal support	negativ.			4,89	5,86	7,82	9,78
Bending resistance in the span	positiv.	elevated temperature	kN·m	7,41	8,90	11,87	14,84
Bending resistance in the span	negativ.			3,92	4,70	6,27	7,84
Bending resist. at an internal support	positiv.	elevated temperature	kN·m	4,27	5,12	6,83	8,54
Bending resist. at an internal support	negativ.			4,79	5,74	7,66	9,58
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%)		0,040	0,040	0,034	0,032		
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				
		(-)	C=0,0528 m ³ /(hPa ⁿ), n=0,3110				
Luftschalldämmung		23(-2,-3) dB					
Schallabsorption		0,1 dB					
Masstoleranzen		„Pass” (Thickness: $\pm 2\%$)					
Duerhaftigkeit		„Pass”					
Gefährliche Substanzen		NPD					

Die Leistung des vorstehenden Produkts entspricht der erklärten Leistung/den erklärten Leistungen. Für die Erstellung der Leistungserklärung im Einklang mit der Verordnung (EU) Nr. 305/2011 ist allein der obengenannte Hersteller verantwortlich.

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GŁÓWNY TECHNOLOG
Bartłomiej Bochnia

At Gorlice, on 28.02.2022

signed for and behalf of the manufacturer by