

This declaration of performance concerns to **GS insPIRe U MAX** products - Self-supporting double skin metal faced insulating panels with PIR core (galvanized or stainless steel faces, yield strength  $\geq 220$  N/mm<sup>2</sup>), thickness (outer/inner) min. 0,5 / 0,4 mm and for all organic coatings. Modular width: 1000 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. U/MAX/03/2022



### Unique identification code of the product-type:

**GS insPIRe U** [thickness  $d_N$ ] **MAX** [modular width: 1000] [outer/inner profilation: L,M,F,R,P / L,P]

**Harmonised standard:** EN 14509:2013

**System/s of AVCP:** System 1

**Notified body/ies:** ICiMB (No. 1487)

**Intended use/es:** Internal and external walls

**Manufacturer::** GÓR-STAL Sp. z o.o., ul. Przemysłowa 11, 38-300 Gorlice, POLAND

### Declared performance/s:

Unique identification code of the product-type /Name			GS insPIRe U80 MAX	GS insPIRe U100 MAX	GS insPIRe U120 MAX	GS insPIRe U140 MAX	Classification	
module: 1000, profil.: L,M,F,R,P / L,P								
Thickness			80 mm	100 mm	120 mm	140 mm	EN 14509:2013	
Essential characteristics / Parameters			Value of parameters					
Thermal properties								
Thermal conductivity, $\lambda_D$			W/m·K		0,019			
Thermal transmittance, $U_{d,s}$			W/m <sup>2</sup> ·K		0,26	0,20	0,16	0,14
Mechanical properties								
Compressive strength (core)			MPa		0,10			
Tensile strength			MPa		0,060			
Shear strength			MPa		0,10	0,10	0,10	0,090
Shear modulus (core)			MPa		3,0	2,9	2,8	2,6
Bending resistance in the span		(+)	ambient temperature	kN·m	6,06	7,57	9,09	10,60
Bending resistance in the span		(-)			3,20	4,00	4,80	5,60
Bending resist. at an internal support		(+)			3,48	4,36	5,23	6,10
Bending resist. at an internal support		(-)			3,91	4,89	5,86	6,84
Bending resistance in the span		(+)	elevated temperature	kN·m	5,93	7,41	8,90	10,38
Bending resistance in the span		(-)			3,13	3,92	4,70	5,48
Bending resist. at an internal support		(+)			3,41	4,27	5,12	5,97
Bending resist. at an internal support		(-)			3,83	4,79	5,74	6,70
Reaction to fire (all applications)			B-s1,d0					
Fire resistance			NPD					
Water permeability			NPD					
Water vapour permeability			„Impermeable”					
Air permeability		(+)	NPD	C=0,0004 m <sup>3</sup> /(hPa <sup>n</sup> ), n=1,0321				
		(-)	NPD	C=0,0046 m <sup>3</sup> /(hPa <sup>n</sup> ), n=0,5877				
Airborne sound insulation			23(-2,-3) dB					
Sound absorption			0,1 dB					
Dimensional tolerances			„Pass” (Thickness: $\pm 2$ mm for $\leq 100$ mm nebo 2% pro $\geq 100$ mm)					
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

At Gorlice, on 28.02.2022

signed for and behalf of the manufacturer by