

This declaration of performance concerns to **GS insPIRe S** 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 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

nr S/02/2020



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

**GS insPIRe S** [thickness  $d_N$ ] [modulus: 1000 or 1140] [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), 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 /Name			GS insPIRe S40	GS insPIRe S60	GS insPIRe S80	GS insPIRe S100	GS insPIRe S120	Classification	
Thickness			40 mm	60 mm	80 mm	100 mm	120 mm		
Essential characteristics / Parameters			Value of parameters					EN 14509:2013	
Thermal properties									
Thermal conductivity, $\lambda_D$			W/m·K		0,022				
Thermal transmittance, $U_{d,s}$			W/m <sup>2</sup> ·K		0,60	0,38	0,28	0,22	0,19
Mechanical properties									
Compressive strength (core)			MPa		0,1				
Tensile strength			MPa		0,06				
Shear strength			MPa		0,130	0,120	0,100	0,100	0,100
Shear modulus (core)			MPa		3,2	3,2	3,0	2,9	2,8
Bending resistance in the span		positiv.	ambient temperature	kN·m	2,60	4,90	8,00	7,50	9,10
Bending resistance in the span		negativ.			1,90	3,70	5,20	5,80	7,00
Bending resist. at an internal support		positiv.	elevated temperature	kN·m	2,00	3,00	4,50	4,70	5,70
Bending resist. at an internal support		negativ.			2,10	3,20	4,90	4,20	5,10
Bending resistance in the span		positiv.	kN·m	1,98	3,72	6,08	5,70	6,92	
Bending resistance in the span		negativ.		1,44	2,81	3,95	4,41	5,32	
Bending resist. at an internal support		positiv.	kN·m	1,52	2,28	3,42	3,57	4,33	
Bending resist. at an internal support		negativ.		1,60	2,43	3,72	3,19	3,88	
Creep coefficient			for t=2.000h:		0,84 (dla 0,5/0,5); 1,22 (dla 0,5/0,4)				
			for t=100.000h:		1,38 (dla 0,5/0,5); 2,04 (dla 0,5/0,4)				
Reduced long term shear strength (40%)			kPa		0,052	0,048	0,040	0,040	0,040
Reaction to fire (all applications)			B-s1,d0						
Fire resistance - horizontally			NPD		EI 15		EI 30		
Fire resistance - vertically			NPD		EI 20 / EI15				
Water permeability			NPD						
Water vapour permeability			„Impermeable”						
Air permeability			NPD						
Airborne sound insulation			23(-2,-3) dB						
Sound absorption			0,1 dB						
Dimensional tolerances			„Pass” (Thickness: $\pm 2$ mm for $\leq 100$ mm and 2% for $\geq 100$ 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

Gorlice, 20.07.2020

miejsowość i data

signed for and behalf of the manufacturer by