

This declaration of performance concerns to **GS insPIRe U** 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 mm. Facing profile: L(linear), M(microprofiling), F(wavy), R(grooving), G(smooth). Certificate of constancy of performance no. 1487-CPR-174-02 issued by notified body ICiMB (no. 1487).



DECLARATION OF PERFORMANCE

no. U/02/2020



Unique identification code of the product-type:

GS insPIRe U [thickness d_N] [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), Certbud (No. 2310)

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 U60	GS insPIRe U80	GS insPIRe U100	GS insPIRe U120	GS insPIRe U140	Classification	
			module: 1000, profil.: L,M,F,R,P / L,P						
Thickness			60 mm	80 mm	100 mm	120 mm	140 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		0,44	0,29	0,23	0,19	0,16
Mechanical properties									
Compressive strength (core)			MPa		0,1				
Tensile strength			MPa		0,06				
Shear strength			MPa		0,120	0,100	0,100	0,100	0,090
Shear modulus (core)			MPa		3,2	3,0	2,9	2,8	2,6
Bending resistance in the span		(+)	kN·m	ambient temperature	4,90	8,00	7,50	9,40	9,40
Bending resistance in the span		(-)			3,70	5,20	5,80	6,40	6,40
Bending resist. at an internal support		(+)	kN·m	ambient temperature	3,00	4,00	5,80	5,60	5,60
Bending resist. at an internal support		(-)			2,60	3,40	5,70	6,20	6,20
Bending resistance in the span		(+)	kN·m	elevated temperature	3,72	6,08	5,70	7,14	7,14
Bending resistance in the span		(-)			2,81	3,95	4,41	4,86	4,86
Bending resist. at an internal support		(+)	kN·m	elevated temperature	2,28	3,04	4,41	4,26	4,26
Bending resist. at an internal support		(-)			1,98	2,58	4,33	4,71	4,71
Reaction to fire (all applications)			B-s1,d0						
Fire resistance - horizontally			NPD		EI 15	EI 30			
Fire resistance - vertically			NPD						
Water permeability			NPD						
Water vapour permeability			„Impermeable”						
Air permeability		(+)	NPD		C=0,0004 m ³ /(hPa ⁿ ·n), n=1,0321 (≤ 0,005 [m ³ /m ² ·h] for Δp=50 [kPa])				
Air permeability		(-)	NPD		C=0,0046 m ³ /(hPa ⁿ ·n), n=0,5877 (0,01 [m ³ /m ² ·h] for Δp=50 [kPa])				
Airborne sound insulation			23(-2,-3) dB						
Sound absorption			0,1 dB						
Dimensional tolerances			„Pass” (Thickness: ±2mm for ≤100mm nebo 2% pro ≥100mm)						
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

place and date of issue

signed for and behalf of the manufacturer by