

This declaration of performance concerns to **GS insPIRe U** products (name change from **Gorlicka U GS-PIR**) - 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/01/2020



Unique identification code of the product-type:

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

Harmonised standard: EN 14509:2013

System/s of AVCP: System 1

Notified body/ies: ICIMB (No. 1487), ITB (No. 1488), Certbud (No. 2310)

Intended use/les: 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,G / L,G					
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	0,38	0,28	0,22	0,19	0,16
Mechanical properties									
	Compressive strength (core)			MPa	0,12				
	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	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	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	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	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				NPD		EI 15	EI 30		
Water permeability				NPD					
Water vapour permeability				„Impermeable”					
Air permeability		(+)	NPD		C=0,0004 m3/(hPa^n), n=1,0321 (≤ 0,005 [m3/m²h] for Δp=50 [kPa])				
		(-)	NPD		C=0,0046 m3/(hPa^n), n=0,5877 (0,01 [m3/m²h] 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					

EN 14509:2013

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.

Gorlice, 03.02.2020

place and date of issue

„GÓR-STAL” Sp. z o.o.
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GŁÓWNY TECHNOLOG

Bartłomiej Bochnia

signed for and on behalf of the manufacturer by