

This declaration of performance concerns to **GS insPIRe S** products (name change from **Gorlicka S 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 or 1140 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

nr S/01/2020



Unique identification code of the product-type:

GS insPIRe S [thickness d_N] [modulus: 1000 or 1140] [outer/inner profilation : L,M,F,R,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/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
				module: 1000, 1140, profil.: L,M,F,R,G / L,G					
Thickness				40 mm	60 mm	80 mm	100 mm	120 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	0,57	0,37	0,27	0,22	0,19	
Mechanical properties									
Compressive strength (core)			MPa	0,12					
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.	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.	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 (Details in the classification)				NPD		EI 15		EI 30	
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: ±2mm for ≤100mm and 2% for ≥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.

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GŁÓWNY TECHNOLOG

Bartłomiej Bochnia

signed for and on behalf of the manufacturer by

Gorlice, 03.02.2020

miejsowość i data