

This declaration of performance concerns to **GS insPIRe S MAX** - 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), P(smooth). Certificate of constancy of performance no. 1487-CPR-174-02 issued by notified body ICiMB (no. 1487).



DECLARATION OF PERFORMANCE

nr S/MAX/02/2020



18

Unique identification code of the product-type:

GS insPIRe S [thickness d_N] **MAX** [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), FIRES (Nr 1396)

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 S80 MAX	GS insPIRe S100 MAX	GS insPIRe S120 MAX	Classification	
module: 1000, 1140, profil.: L,M,F,R,P / L,P								
Thickness				80 mm	100 mm	120 mm		
Essential characteristics / Parameters				Value of parameters			EN 14509:2013	
Thermal properties								
Thermal conductivity, λ_D		W/m·K		0,019				
Thermal transmittance, $U_{d,s}$		W/m ² ·K		0,24	0,19	0,16		
Mechanical properties								
Compressive strength (core)		MPa		0,10				
Tensile strength		MPa		0,06				
Shear strength		MPa		0,100	0,100	0,100		
Shear modulus (core)		MPa		3,0	2,9	2,8		
Bending resistance in the span		positiv.	kN·m	8,00	7,50	9,10		
Bending resistance in the span		negativ.		5,20	5,80	7,00		
Bending resist. at an internal support		positiv.	kN·m	4,50	4,70	5,70		
Bending resist. at an internal support		negativ.		4,90	4,20	5,10		
Bending resistance in the span		positiv.	kN·m	6,08	5,70	6,92		
Bending resistance in the span		negativ.		3,95	4,41	5,32		
Bending resist. at an internal support		positiv.	kN·m	3,42	3,57	4,33		
Bending resist. at an internal support		negativ.		3,72	3,19	3,88		
Creep coefficient		for t=2.000h: for t=100.000h:		0,84 (dla 0,5/0,5); 1,22 (dla 0,5/0,4) 1,38 (dla 0,5/0,5); 2,04 (dla 0,5/0,4)				
Reduced long term shear strength (40%)		kPa		0,040	0,040	0,040		
Reaction to fire (all applications)				B-s1,d0				
Fire resistance - horizontally				NPD		EI 30		
Fire resistance - vertically				NPD		EI 30 / EW 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: ± 2 mm for ≤ 100 mm and 2% for ≥ 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.

” GÓR-STAL” Sp. z o.o.
38-300 Gorlice, ul. Przemysłowa 11
tel. 018 353 98 00
REGON 852712117 NIP 738-19-45-154

GLÓWNY TECHNOLOG

Bartłomiej Bochnia

Gorlice, 20.07.2020
miejscość i data

signed for and behalf of the manufacturer by