

EN, This declaration of performance concerns to **GS PIR D MAX** products -- Self-supporting double skin metal faced insulating panels with PIR core (galvanized steel faces, yield strength ≥ 220 N/mm²), thickness (outer/inner) min. 0,4 / 0,4 mm and for all organic coatings. Modular width: 1000 mm. Facing profile: outer: T(trapezoidal 40mm), inner: L(linear), P (smooth). Certificate of constancy of performance no. 1487-CPR-174-02 issued by notified body ICiMB (no. 1487).



DECLARATION OF PERFORMANCE

no. D/MAX/03/2022

Unique identification code of the product-type:

GS PIR D [thickness d_n] **MAX** [modular width: 1000] [outer/inner profilation: T / L, P]

Harmonised standard: EN 14509:2013

System/s of AVCP: System 1

Notified body/ies: ICiMB (Nr 1487), ITB (Nr 1488), FIRES (Nr 1396)

Intended use/es: Roofs

Manufacturer: GÓR-STAL Sp. z o.o., ul. Przemysłowa 11, 38-300 Gorlice, POLAND

Declared performance/s:

Unique identification code of the product-type			GS PIR D80 MAX	GS PIR D100 MAX	GS PIR D120 MAX	GS PIR D150 MAX	GS PIR D160 MAX	Classification	
module: 1000, profilation: T / L, P									
Thickness			80/120 mm	100/140 mm	120/160 mm	150/190 mm	160/200 mm		
Essential characteristics / Parameters			Value of parameters						
Thermal properties									
Thermal conductivity, λ_D			W/m·K		0,020				
Thermal transmittance, $U_{d,s}$			W/m ² ·K		0,25	0,20	0,17	0,13	0,13
Mechanical properties									
Compressive strength (core)			MPa		0,10				
Tensile strength			MPa		0,060				
Shear strength			MPa		0,10	0,10	0,10	0,080	0,080
Shear modulus (core)			MPa		3,0	2,9	2,8	2,4	2,4
Bending resistance in the span			kN·m		5,44	6,80	8,16	10,20	10,88
Bending resistance in the span			kN·m		3,20	4,00	4,80	6,00	6,40
Bending resist. at internal support			kN·m		4,10	5,12	6,15	7,68	8,20
Bending resist. at internal support			kN·m		4,60	5,75	6,90	8,62	9,20
Bending resistance in the span			kN·m		5,33	6,66	7,99	9,99	10,66
Bending resistance in the span			kN·m		3,13	3,92	4,70	5,88	6,27
Bending resist. at internal support			kN·m		4,01	5,01	6,02	7,52	8,03
Bending resist. at internal support			kN·m		4,50	5,63	6,76	8,44	9,01
Creep coefficient			for $t=2.000h$: 0,67 (for 0,5/0,5); 0,79 (for 0,5/0,4); 0,91 (for 0,4/0,4)					0,69	
Creep coefficient			for $t=100.000h$: 1,09 (for 0,5/0,5); 1,14 (for 0,5/0,4); 1,33 (for 0,4/0,4)					0,83	
Reduced long term shear strength (40%)			MPa		0,040	0,040	0,040	0,034	0,034
Reaction to fire (all applications)			B-s1,d0						
Fire resistance (details in the classification)			NPD		RE 30 / REI 20				
External fire performance			B _{roof}						
Water permeability			Class A						
Water vapour permeability			„Impermeable”						
Air permeability			(+) C=0,0046 m ³ /(hPa·n), n=1,2421						
Air permeability			(-) C=0,0033 m ³ /(hPa·n), n=1,0658						
Airborne sound insulation			24(-1,-3) (for 0,5/0,5 & 0,5/0,4); 24(-2,-4) (for 0,4/0,4); [dB]						
Dimensional tolerances			„Pass” (Thickness: $\pm 2mm$ for $\leq 100mm$ and 2% for $\geq 100mm$)						
Durability – all colours			„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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DYREKTOR ZAKŁADU
Piotr Grzywa

Gorlice, 01.07.2025

signed for and behalf of the manufacturer by