

DECLARATION OF PERFORMANCE

No termPIR/AL/12



Unique identification code of the product type: termPIR AL 20-250, type of edges

Manufacturer: Gór-Stal sp. z o.o.; ul. Przemysłowa 11; 38-300 Gorlice, Poland / Place of manufacture: Gór-Stal sp. z o.o.; ul. Adolfa Mitey 9; 32-700 Bochnia, Poland

Harmonised standard: EN 13165:2012+A2:2016

The system/s of AVCP: 3

Notified body/ies: Notified laboratory no **1488** (ITB, Warszawa, PL) make tests reports for: reaction to fire, thermal conductivity, thermal resistance and compressive stress; **1454** (IMBiGS, Katowice, PL) make tests reports for flatness after one-sided wetting

Intended use/uses: thermal insulation products for buildings; (*internal use acc. to EPBD, Belgium*)

Declared performances:

essential characteristics	performance	values / classes					
Thermal resistance	Thickness tolerance, class	<i>for</i> (20 ≤ d _N < 50 mm): ± 2 mm, T2		<i>for</i> (50 ≤ d _N ≤ 120 mm): ± 3 mm, T2		<i>for</i> (120 < d _N ≤ 250 mm): +5/-3 mm, T2	
	Thermal conductivity, λ _D	<i>for</i> (20 ≤ d _N ≤ 250 mm): 0,022 [W/m·K]					
	Thermal resistance, R _D [m ² ·K/W]	20 mm: 0,90	30 mm: 1,35	40 mm: 1,85	50 mm: 2,30	60 mm: 2,75	70 mm: 3,25
		80 mm: 3,70	90 mm: 4,15	100 mm: 4,65	110 mm: 5,10	120 mm: 5,55	130 mm: 6,05
		140 mm: 6,50	150 mm: 6,95	160 mm: 7,45	170 mm: 7,90	180 mm: 8,35	190 mm: 8,85
		200 mm: 9,30	210 mm: 9,75	220 mm: 10,2	230 mm: 10,7	240 mm: 11,1	250 mm: 11,6
Reaction to fire (<i>of the product as placed on the market</i>)		Classe E					
Reaction to fire (<i>end of use</i>)		Classe B-s2,d0 (<i>with trapezoidal metal sheet</i>)					
Durability of reaction to fire against heat, weathering, ageing/degradation	Durability of reaction to fire of the product as placed on the market	NPD <i>The fire performance of PIR does not deteriorate with time (acc. EN 13165+A2)</i>					
Durability of thermal resistance against heat, weathering, ageing/degradation	Thermal conductivity, λ _D agged values	<i>for</i> (20 ≤ d _N ≤ 250 mm): 0,022 [W/m·K]					
	Thermal resistance, R _D [m ² ·K/W] agged values (<i>for thickness d_N</i>)	20 mm: 0,90	30 mm: 1,35	40 mm: 1,85	50 mm: 2,30	60 mm: 2,75	70 mm: 3,25
		80 mm: 3,70	90 mm: 4,15	100 mm: 4,65	110 mm: 5,10	120 mm: 5,55	130 mm: 6,05
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Durability characteristics	NPD						
Dimensional stability	<i>for</i> (20 ≤ d _N < 50 mm): DS(70,-)1		<i>for</i> (50 ≤ d _N ≤ 250 mm): DS(-20,-)2 / DS(70,90)3				
Deformation under specified compressive load and temper. condition	NPD						
Compressive strenght	Compressive stress, σ ₁₀	≥ 120 kPa, CS(10/Y)120					
Tensile strength	Tensile strength perpendicular to faces	≥ 40 kPa, TR 40					
Durability of compressive strenght against ageing/degradation	Compressive creep	NPD					
Water permeability	Long term water absorption	NPD					
	Short term water absorption	NPD					
Water vapour permeability	Flatness after one-sided wetting	≤ 10 mm / FW2					
	Water vapour transmission, μ	μ = (205 ÷ 275), MU 205-275					
Acoustic absorption index	Sound absorption	NPD					
Release of dengerous substances to the indoor environment		NPD; <i>European test methods are under development for this characteristic.</i>					
Continuous glowing combustion		NPD; <i>European test methods are under development for this characteristic.</i>					
NPD: No Performance Determined							

Harmonised standard: EN 13165:2012+A2:2016

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.

Bochnia, dn. 10.12.2017
place and date of issue

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DYREKTOR PRODUKCJI
Piotr Grzywa
signature

ADDITIONAL INFORMATION (not falling within the scope of CE marking and other than the contents of this declaration of performance):

Description: Insulation panels with PIR core, double-sided panel lining is made of kraft paper covered with aluminium (AL)

Type of edges: **FIT** (straight edges), **LAP** (overlap edges), **TAG** (tounge and groove)

Additional product's information :

Core density (EN 1602): 30 +6/-2 kg/m³

Board length / width (EN 822): 2,4 m (±10 mm); 1,2 m (±7,5 mm); 0,6 m (±5 mm) / 1,2 m (±7,5 mm); *minus cutting depth LAP i TAG: about 15 mm; or acc. to order*

Long term water absorption (EN 12087): ≤ 2,0 % [kg/kg]

Thermal resistance R_D for d_N = 125 mm (EN ISO 10456, EN 13165+A2): 5,80 m²·K/W

Fire resistance (EN 13501-2): REI 20 (dla d_N ≥ 120 mm) - *details in the classification*

External fire performance (EN 13501-5): Broof (t1) dla d_N ≥ 50 mm - *details in the classification*

Informations about product safety:

Information referred to in Article 31 and 32 of the Regulation (EC) No 1907/2006 (REACH): Not applicable

The National Institute of Hygiene has issued a hygienic approval for the product.

Installation guidelines: Lay panels in a single layer or multiple layers, in a staggered pattern. Ensure that the panels adhere tightly to each other. Ensure surface stability. Insulation panels can be installed mechanically using screws, can be suspended or bonded - depending on the type of surface and type of waterproofing membrane. Ensure that the fasteners do not come clear through the panels. Protect your insulated panel system against the elements. For further information please consult the Technical Catalogue available on www.gor-stal.pl.