

DECLARATION OF PERFORMANCE

No N.AL/17

Unique identification code of the product type: [No DoP] - termPIR AL | d_N [20-250] | type of edges [FIT, LAP, TAG] - [modular length / width]

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

Harmonised standard: EN 13165:2012+A2:2016

The system/s of AVCP: System 3, System 3 and 4

Notified body/ies: Notified laboratory no 1488 (ITB, Warszawa, PL); 1454 (IMBiGS, Katowice, PL)

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

Declared performances:

Essential characteristics	Performance	Values / classes					
		$(20 \leq d_N < 50 \text{ mm})$:		$(50 \leq d_N \leq 75 \text{ mm})$:		$(75 < d_N \leq 250 \text{ mm})$:	
Thermal resistance	Thickness tolerance, class	$\pm 2 \text{ mm, T2}$		$\pm 3 \text{ mm, T2}$		$+5/-3 \text{ mm, T2}$	
	Thermal conductivity, λ_D	$(20 \leq d_N \leq 250 \text{ mm})$: 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 (of the product as placed on the market)		Class F (20-49 mm) Class E (50-250 mm)					
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability of reaction to fire of the product as placed on the market	NPD; The fire performance of PIR does not deteriorate with time (acc. EN 13165+A2)					
Durability of thermal resistance against heat, weathering, ageing / degradation	Thermal conductivity, λ_D aged values	$(20 \leq d_N \leq 250 \text{ mm})$: 0,022 [W/m·K]					
	Thermal resistance, R_D [m ² ·K/W] aged values (for thickness d_N)	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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		200 mm: 9,30	210 mm: 9,75	220 mm: 10,2	230 mm: 10,7	240 mm: 11,1	250 mm: 11,6
	Durability characteristics	NPD					
Dimensional stability	$(20 \leq d_N < 50 \text{ mm})$: DS(70,-)1		$(50 \leq d_N \leq 250 \text{ mm})$: DS(-20,-)2 / DS(70,90)3				
Deformation under specified compressive load and temper. condition	NPD						
Compressive strength	Compressive stress, σ_{10}	$(20 \leq d_N < 30 \text{ mm})$: $\geq 120 \text{ kPa, CS(10/Y)120}$		$(30 \leq d_N < 140 \text{ mm})$: $\geq 150 \text{ kPa, CS(10/Y)150}$		$(140 \leq d_N \leq 250 \text{ mm})$: $\geq 140 \text{ kPa, CS(10/Y)140}$	
Tensile strength	Tensile strength perpendicular to faces	$(20 \leq d_N \leq 130 \text{ mm})$: $\geq 80 \text{ kPa, TR80}$			$(130 < d_N \leq 250 \text{ mm})$: $\geq 40 \text{ kPa, TR40}$		
Durability of compressive strength against ageing / degradation	Compressive creep	NPD					
Water permeability	Long term water absorption	$\leq 2 \%$ [kg/kg] / WL(T)2					
	Short term water absorption	NPD					
	Flatness after one-sided wetting	$\leq 10 \text{ mm} / \text{FW2}$					
Water vapour permeability	Water vapour transmission	20 mm: $Z = 6,3$ [m ² ·h·Pa/mg]; 250 mm: 89,6 [m ² ·h·Pa/mg] / Z 5-100					
Acoustic absorption index	Sound absorption	NPD					
Release of dangerous substances to the indoor environment		NPD; European test methods are under development for this characteristic.					
Continuous glowing combustion		NPD; European test methods are under development for this characteristic.					

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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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