

DECLARATION OF PERFORMANCE

No termPIR/ETX/R-eco/2

Unique identification code of the product type: termPIR ETX | d_N [20-250] | R-eco | type of edges [FIT, LAP, TAG]

Manufacturer: Gór-Stal sp. z o.o. [S.r.l.], ul. Przemysłowa 11; 38-300 Gorlice, Poland

Place of manufacture: Gór-Stal sp. z o.o. [S.r.l.], ul. Adolfa Mitery 9; 32-700 Bochnia, Poland

Harmonised standard: EN 13165:2012+A2:2016

The system/s of AVCP: System 3,4

Notified body/ies: Notified laboratory no 1488 (ITB, Warszawa, PL); no 2904 (Fire-Lab, Warszawa, PL); 1487 (ICiMB, Kraków, PL);

Intended use/uses: thermal insulation products for buildings;

Declared performances:

Essential characteristics	performance	values / classes					
Thermal resistance	Thickness tolerance, class	(20 ≤ d _N < 50 mm): ± 2 mm, T2		(50 ≤ d _N ≤ 75 mm): ± 3 mm, T2		(75 < d _N ≤ 250 mm): +5/-3 mm, T2	
	Thermal conductivity, λD	(20 ≤ d _N < 80 mm): 0,027 [W/m·K]		(80 ≤ d _N < 120 mm): 0,026 [W/m·K]		(120 ≤ d _N ≤ 250 mm): 0,025 [W/m·K]	
	Thermal resistance, RD [m ² ·K/W]	20 mm: 0,70	30 mm: 1,10	40 mm: 1,45	50 mm: 1,85	60 mm: 2,20	70 mm: 2,55
		80 mm: 3,05	90 mm: 3,45	100 mm: 3,80	110 mm: 4,20	120 mm: 4,80	130 mm: 5,20
		140 mm: 5,60	150 mm: 6,00	160 mm: 6,40	170 mm: 6,80	180 mm: 7,20	190 mm: 7,60
		200 mm: 8,00	210 mm: 8,40	220 mm: 8,80	230 mm: 9,20	240 mm: 9,60	250 mm: 10,0
Reaction to fire (of the product as placed on the market)		Class F for (20-40 mm) Class E for (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, λD aged values	(20 ≤ d _N < 80 mm): 0,027 [W/m·K]		(80 ≤ d _N < 120 mm): 0,026 [W/m·K]		(120 ≤ d _N ≤ 250 mm): 0,025 [W/m·K]	
	Thermal resistance, RD [m ² ·K/W] aged values (for thickness d _N)	20 mm: 0,70	30 mm: 1,10	40 mm: 1,45	50 mm: 1,85	60 mm: 2,20	70 mm: 2,55
		80 mm: 3,05	90 mm: 3,45	100 mm: 3,80	110 mm: 4,20	120 mm: 4,80	130 mm: 5,20
		140 mm: 5,60	150 mm: 6,00	160 mm: 6,40	170 mm: 6,80	180 mm: 7,20	190 mm: 7,60
200 mm: 8,00		210 mm: 8,40	220 mm: 8,80	230 mm: 9,20	240 mm: 9,60	250 mm: 10,0	
	Durability characteristics	NPD					
	Dimensional stability	NPD		(50 ≤ d _N ≤ 250 mm): DS(-20,-)2 / DS(70,90)3			
	Deformation under specified compressive load and temper. condition	NPD					
Compressive strength	Compressive stress, σ ₁₀	≥ 120 kPa, CS(10/Y)120					
Tensile strength	Tensile strength perpendicular to faces	NPD		(50 ≤ d _N ≤ 250 mm): ≥ 80 kPa, TR80			
Durability of compressive strength against ageing/degradation	Compressive creep	NPD					
Water permeability	Long term water absorption	NPD					
	Short term water absorption	NPD					
	Flatness after one-sided wetting	NPD					
Water vapour permeability	Water vapour transmission	NPD					
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.					
Shear behavior	-	for (20 ≤ d _N < 50 mm):		for (50 ≤ d _N ≤ 120 mm):		for (120 < d _N ≤ 250 mm):	
	Shear strength	NPD		≥ 20 kPa, SS 20		NPD	
	Shear modulus			≥ 1000 kPa, SM 1000			
NPD: No Performance Determined							

Harmonized 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.

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