

DECLARATION OF PERFORMANCE

No termPIR/ETX/12



Unique identification code of the product type: termPIR ETX 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: thermal conductivity, thermal resistance and compressive stress; **1487** (ICiMB, Kraków, PL) make tests reports for reaction to fire.

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 < 80 mm): 0,026 [W/m·K]		<i>for</i> (80 ≤ d _N ≤ 120 mm): 0,025 [W/m·K]		<i>for</i> (120 < d _N ≤ 250 mm): 0,024 [W/m·K]	
	Thermal resistance, R _D [m ² ·K/W]	20 mm: 0,75 30 mm: 1,15	40 mm: 1,55 50 mm: 1,90	60 mm: 2,30 70 mm: 2,70			
		80 mm: 3,20 90 mm: 3,60	100 mm: 4,00 110 mm: 4,40	120 mm: 5,05 130 mm: 5,45			
140 mm: 5,85 150 mm: 6,30		160 mm: 6,70 170 mm: 7,15	180 mm: 7,55 190 mm: 8,00	200 mm: 8,40 210 mm: 8,80	220 mm: 9,25 230 mm: 9,65	240 mm: 10,1 250 mm: 10,5	
Reaction to fire (<i>of the product as placed on the market</i>)	Classe E						
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 < 80 mm): 0,026 [W/m·K]		<i>for</i> (80 ≤ d _N ≤ 120 mm): 0,025 [W/m·K]		<i>for</i> (120 < d _N ≤ 250 mm): 0,024 [W/m·K]	
	Thermal resistance, R _D [m ² ·K/W] agged values (<i>for thickness d_N</i>)	20 mm: 0,75 30 mm: 1,15	40 mm: 1,55 50 mm: 1,90	60 mm: 2,30 70 mm: 2,70			
		80 mm: 3,20 90 mm: 3,60	100 mm: 4,00 110 mm: 4,40	120 mm: 5,05 130 mm: 5,45			
		140 mm: 5,85 150 mm: 6,30	160 mm: 6,70 170 mm: 7,15	180 mm: 7,55 190 mm: 8,00	200 mm: 8,40 210 mm: 8,80	220 mm: 9,25 230 mm: 9,65	240 mm: 10,1 250 mm: 10,5
	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	<i>for</i> (20 ≤ d _N < 50 mm): NPD	<i>for</i> (50 ≤ d _N ≤ 120 mm): ≥ 80 kPa, TR 80				
Durability of compressive strenght 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, μ	μ = (90 ÷ 170), MU(90-170)					
Acoustic absorption index	Sound absorption	NPD					
Release of dangerous 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>					
Shear behavior	Shear strength	<i>for</i> (20 ≤ d _N < 50 mm): NPD	<i>for</i> (50 ≤ d _N ≤ 120 mm): ≥ 20 kPa, SS 20		<i>for</i> (120 < d _N ≤ 250 mm): NPD		
	Shear modulus	NPD	≥ 1000 kPa, SM 1000		NPD		

NPD: No Performance Determined

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 Grzjwa

signature and seal of the authorized person

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 fiberglass (ETX)

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

Informations about product safety:

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

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 ETICS system insulation panels need to be fixed not earlier than 1 month from the date of manufacture. For further information please consult the Technical Catalogue available on www.gor-stal.pl.