

DECLARATION OF PERFORMANCE

No termPIR/AL/13


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 Mityry 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 and long term water absorption.

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 (20 ≤ d_N < 50 mm):</i> ± 2 mm, T2		<i>for (50 ≤ d_N ≤ 120 mm):</i> ± 3 mm, T2		<i>for (120 < d_N ≤ 250 mm):</i> +5/-3 mm, T2																			
	Thermal conductivity, λ _D	<i>for (20 ≤ d_N ≤ 250 mm):</i> 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 (20 ≤ d_N ≤ 250 mm):</i> 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	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
		Durability characteristics	NPD																						
		Dimensional stability	<i>for (20 ≤ d_N < 50 mm):</i> DS(70,-)1		<i>for (50 ≤ d_N ≤ 250 mm):</i> DS(-20,-)2 / DS(70,90)3																				
		Deformation under specified compressive load and temper.	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	≤ 2 % [kg/kg] / WL(T)2																							
	Short term water absorption	NPD																							
	Flatness after one-sided wetting	≤ 10 mm / FW2																							
Water vapour permeability	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>																							

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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.

 Bochnia, dn. 26.04.2018
 place and date of issue

"GÓR-STAL" Sp. z o.o.
 38-300 Gorlice, ul. Przemysłowa 11
 tel. 018 353 98 00
 REGON 852712117 NIP 738-19-45-154

 DYREKTOR PRODUKCJI


signature