

## DECLARATION OF PERFORMANCE

No termPIR/BWS/13



**Unique identification code of the product type:** termPIR BWS 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 Mitery 9; 32-700 Bochnia, Poland

**Harmonised standard:** EN 13165:2012+A2:2016

**The system/s of AVCP:** 3 and 4

**Notified body/ies:** Notified laboratory no 1488 (ITB, Warszawa, PL) make tests reports for: reaction to fire, 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

**Declared performances:**

essential characteristics	performance	values / classes						
Thermal resistance	Thickness tolerance, class	<i>for</i> (20 ≤ d <sub>N</sub> < 50 mm): ± 2 mm, T2		<i>for</i> (50 ≤ d <sub>N</sub> ≤ 120 mm): ± 3 mm, T2		<i>for</i> (120 < d <sub>N</sub> ≤ 250 mm): +5/-3 mm, T2		
	Thermal conductivity, λ <sub>D</sub>	<i>for</i> (20 ≤ d <sub>N</sub> < 80 mm): <b>0,026</b> [W/m·K]		<i>for</i> (80 ≤ d <sub>N</sub> ≤ 120 mm): <b>0,025</b> [W/m·K]		<i>for</i> (120 < d <sub>N</sub> ≤ 250 mm): <b>0,024</b> [W/m·K]		
	Thermal resistance, R <sub>D</sub> [m <sup>2</sup> ·K/W]	20 mm: <b>0,75</b>   30 mm: <b>1,15</b>	40 mm: <b>1,55</b>   50 mm: <b>1,90</b>	60 mm: <b>2,30</b>   70 mm: <b>2,70</b>				
		80 mm: <b>3,20</b>   90 mm: <b>3,60</b>	100 mm: <b>4,00</b>   110 mm: <b>4,40</b>	120 mm: <b>5,05</b>   130 mm: <b>5,45</b>				
140 mm: <b>5,85</b>   150 mm: <b>6,30</b>		160 mm: <b>6,70</b>   170 mm: <b>7,15</b>	180 mm: <b>7,55</b>   190 mm: <b>8,00</b>					
200 mm: <b>8,40</b>   210 mm: <b>8,80</b>		220 mm: <b>9,25</b>   230 mm: <b>9,65</b>	240 mm: <b>10,1</b>   250 mm: <b>10,5</b>					
Reaction to fire ( <i>of the product as placed on the market</i> )	Classe F							
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 <sub>D</sub> agged values	<i>for</i> (20 ≤ d <sub>N</sub> < 80 mm): <b>0,026</b> [W/m·K]		<i>for</i> (80 ≤ d <sub>N</sub> ≤ 120 mm): <b>0,025</b> [W/m·K]		<i>for</i> (120 < d <sub>N</sub> ≤ 250 mm): <b>0,024</b> [W/m·K]		
	Thermal resistance, R <sub>D</sub> [m <sup>2</sup> ·K/W] agged values ( <i>for thickness d<sub>N</sub></i> )	20 mm: <b>0,75</b>   30 mm: <b>1,15</b>	40 mm: <b>1,55</b>   50 mm: <b>1,90</b>	60 mm: <b>2,30</b>   70 mm: <b>2,70</b>				
		80 mm: <b>3,20</b>   90 mm: <b>3,60</b>	100 mm: <b>4,00</b>   110 mm: <b>4,40</b>	120 mm: <b>5,05</b>   130 mm: <b>5,45</b>				
		140 mm: <b>5,85</b>   150 mm: <b>6,30</b>	160 mm: <b>6,70</b>   170 mm: <b>7,15</b>	180 mm: <b>7,55</b>   190 mm: <b>8,00</b>				
		200 mm: <b>8,40</b>   210 mm: <b>8,80</b>	220 mm: <b>9,25</b>   230 mm: <b>9,65</b>	240 mm: <b>10,1</b>   250 mm: <b>10,5</b>				
	Durability characteristics	NPD						
Dimensional stability	DS(70,-)2							
Deformation under specified compressive load and temper. condition	NPD							
Compressive strenght	Compressive stress, σ <sub>10</sub>	≥ 120 kPa, CS(10/Y)120						
Tensile strength	Tensile strength perpendicular to faces	NPD						
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	NPD						
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>							

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.

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**DYREKTOR PRODUKCJI**  
*Piotr Grzywa*

Bochnia, dn. 26.01.2018

place and date of issue

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, panel lining is made of bituminous cladding (BT) on one site and fiberglass (WS) on other site.

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/m<sup>3</sup>

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*

**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 further information please consult the Technical Catalogue available on [www.gor-stal.pl](http://www.gor-stal.pl).