

## DECLARATION OF PERFORMANCE Nr. BP-21-10/002/PIR/EN

1. Unique identification code of the product-type:

**Self-supporting double skin metal faced insulating panels with polyisocyanurate (PIR) core and hidden joint. Types:**

PIR 50HF	1000WP
PIR 80HF	1000WP
PIR 100HF	1000WP
PIR 120HF	1000WP
PIR 150HF	1000WP

2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4) of the Construction Products Regulation (CPR):

**See product label**

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

**Thermal insulation products for the construction of buildings. Suitable for external and internal walls.**

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5) of the CPR:

**UAB „Baltijos polistirenas“, S. Lozoraičio g. 15A, Garliava, Kauno raj., Lithuania, LT-53229, Tel.: +370 37 551 518. Production department: J. Basanavičiaus g. 122, Utena, Lithuania, LT-28214.**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2) of the CPR:

**Not applicable**

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:

**Reaction to fire and fire resistance characteristics are declared under System 3.**

**Other mechanical parameters are declared under System 4.**

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

**Factory process control (FPC) is performed according to European standard EN 14509:2014 “Self-supporting double skin metal faced insulating panels - Factory made products – Specifications” requirements.**

**Reaction to fire and fire resistance tests are performed by Fires s.r.o, Batizovce, Slovak Republic, notified body No. 1396.**

8. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in **Annex No. 1**. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by  
Mantas Sakalauskas, Head of Quality  
Kaunas 2021 10 28



Annex No. 1. Declared performance:

Panels type	PIR core Standard joint					Harmonized technical specification (HTS)
Application	External and internal walls					
Core density, kg/m <sup>3</sup>	40 ± 3					
External metal sheet	<b>Thickness:</b> 0.50; 0.60; 0.70 mm <b>Steel:</b> S280GD+Z225; S280GD+Z275; S280GD+Z190 <b>Coating:</b> PE; PVDF; PUR; Food safe <b>Profiling:</b> Linear; micro; flat					EN 14509:2014
Internal metal sheet	<b>Thickness:</b> 0.47; 0.50; 0.60 mm <b>Steel:</b> S280GD+Z225; S280GD+Z275; S280GD+Z190 <b>Coating:</b> PE; PVDF; PUR; Food safe <b>Profiling:</b> Linear; flat					
Thermal conductivity $\lambda_D$ , W/(m·K)	≤ 0.022					
Panel thickness, mm	50	80	100	120	150	HTS
Thermal transmittance, $U_{d,s}$	0.44	0.27	0.22	0.18	0.15	
Reaction to fire	B-s2, d0	B-s2, d0	B-s2, d0	B-s2, d0	B-s2, d0	
Fire resistance	NPD	NPD	EI15*	EI15*	EI15*	
Airborne sound insulation $R_w(C;C_{tr})$	NPD	NPD	NPD	27 (-2; -4)		
Shear modulus (core), MPa	2.80	3.50	3.40	3.50	3.50	
Shear strength, MPa	0.10	0.08	0.08	0.08	0.08	
Compressive strength (core), MPa	0.12	0.11	0.11	0.11	0.11	
Compression modulus of elasticity, MPa	1.8	1.9	2.4	2.3	2.5	
Tensile strength, MPa	0.11	0.12	0.11	0.11	0.11	
Young's modulus, N/mm <sup>2</sup>	2.50	3.20	3.10	2.40	3.00	
Reduced long term shear strength, MPa	NPD	NPD	NPD	NPD	NPD	
Creep coefficient t=2000 h	NPD	NPD	NPD	NPD	NPD	
Creep coefficient t=10000 h	NPD	NPD	NPD	NPD	NPD	

EN 14509:2014

Panel thickness, mm	50	80	100	120	150	HTS
Mean yield stress of compression to face sheet (downward load), MPa	373.0	373.9	374.4	375	364.1	EN 14509:2014
Mean yield stress of compression to face sheet (uplift load), MPa	288.0	338.1	371.6	405	408.0	
Bending moment capacity (downward load), kNm	2.84	4.13	5.00	5.86	7.08	
Bending moment capacity (load), kNm	3.53	4.70	5.48	6.26	6.31	
Wrinkling stress (downward load), MPa	104.0	96.7	91.9	87.0	84.8	
Wrinkling stress (uplift load), MPa	128.0	114.7	105.9	97.0	82.4	
Yield strength (internal metal sheet), MPa	369	369	369	369	360	
Yield strength (external metal sheet), MPa	262.0	319.4	357.7	369.0	369.4	
Water permeability	NPD	NPD	NPD	NPD	NPD	
Air permeability	NPD	NPD	NPD	NPD	NPD	
Water vapour permeability	Impermeable					
Dimension control	According to D.2.1-D.2.11 EN 14509:2013 standard					
Durability	Pass – all colours					

\* More detailed information in fire test reports.