

DECLARATION OF PERFORMANCE

Nr. BP-21-10/001/PIR/EN

1. Unique identification code of the product-type:

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

PIR 50NF	1000-1200WP
PIR 80NF	1000-1200WP
PIR 100NF	1000-1200WP
PIR 120NF	1000-1200WP
PIR 140NF	1000-1200WP
PIR 150NF	1000-1200WP
PIR 160NF	1000-1200WP
PIR 180NF	1000-1200WP
PIR 200NF	1000-1200WP

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 characteristics are declared under System 1.

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.

Notified body Statybos produkcijos sertifikavimo centras (SPSC, identification No. 1397, Vilnius, Lithuania) issued the Certificate of Constancy of Performance No. 1397-CPR-0541.

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 ³	40 ± 3										
External metal sheet	Thickness: 0.50; 0.60; 0.70 mm Steel: S280GD+Z225; S280GD+Z275; S280GD+Z190 Coating: PE; PVDF; PUR; Food safe Profiling: Linear; micro; flat										EN 14509:2014
Internal metal sheet	Thickness: 0.47; 0.50; 0.60 mm Steel: S280GD+Z225; S280GD+Z275; S280GD+Z190 Coating: PE; PVDF; PUR; Food safe Profiling: Linear; flat										
Thermal conductivity λ_D , W/(m·K)	≤ 0.022										
Panel thickness, mm	50	80	100	120	140	150	160	180	200	HTS	
Thermal transmittance, $U_{d,s}$	0.44	0.27	0.22	0.18	0.16	0.15	0.14	0.12	0.11		
Reaction to fire	B-s2, d0	B-s2, d0	B-s1, d0	B-s1, d0	B-s1, d0	B-s1, d0	B-s1, d0	B-s1, d0	B-s1, d0		
Fire resistance	NPD	NPD	EI15*	EI30*	EI30*	EI30*	EI30*	EI30*	EI30*		
Airborne sound insulation $R_w(C;C_{tr})$	NPD	NPD	NPD	27 (-2; -4)							
Shear modulus (core), MPa	3.00	3.50	3.50	3.50	3.50	3.50	3.50	3.50	2.70		
Shear strength, MPa	0.10	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.06		
Compressive strength (core), MPa	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10		
Compression modulus of elasticity, MPa	2.0	2.0	2.4	2.4	2.5	2.5	2.5	2.5	2.5		
Tensile strength, MPa	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12		
Young's modulus, N/mm ²	2.50	3.20	3.10	2.50	3.00	3.30	3.30	3.10	3.00		
Reduced long term shear strength, MPa	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD		
Creep coefficient t=2000 h	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD		
Creep coefficient t=10000 h	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD		

EN 14509:2014

Panel thickness, mm	50	80	100	120	140	150	160	180	200	HTS
Mean yield stress of compression to face sheet (downward load), MPa	373.0	373.9	374.4	375.0	NPD	364.1	364.1	353.3	346.0	
Mean yield stress of compression to face sheet (uplift load), MPa	288.0	338.1	371.6	405.0	NPD	408.0	408.0	411.0	413.0	
Bending moment capacity (downward load), kNm	2.84	4.13	5.00	5.86	NPD	7.08	7.08	8.29	9.10	
Bending moment capacity (load), kNm	3.53	4.70	5.48	6.26	NPD	6.31	6.31	6.36	6.39	
Wrinkling stress (downward load), MPa	104.0	96.7	91.9	87.0	NPD	84.8	84.8	82.5	81.0	
Wrinkling stress (uplift load), MPa	128.0	114.7	105.9	97.0	NPD	82.4	82.4	67.8	58.0	
Yield strength (internal metal sheet), MPa	369	369	369	369	NPD	360	360	351	345	
Yield strength (external metal sheet), MPa	262.0	319.4	357.7	369.0	NPD	396.4	396.4	396.8	397	
Water permeability	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	
Air permeability	NPD	NPD	NPD	NPD	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									

EN 14509:2014

* More detailed information in fire test reports.