

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

1. Unique identification code of the product-type:

Self-supporting double skin metal faced insulating panels with polyisocyanurate core material and hidden joint.

PIR50HF1000WP
PIR80HF1000WP
PIR100HF1000WP
PIR120HF1000WP
PIR150HF1000WP

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

See product label

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer as required pursuant to Article 11(5):

Thermal insulation products for building applications external and internal walls.

4. Name, registered trade name or registered trade mark and contact address of the manufacturer:

**UAB „Baltijos polistirenas“, S. Lozoraičio St. 15 A, Garliava, Kaunas district, Lithuania, LT-53229,
Tel.: +370 37 551 518 . Production place: J.Basanavičiaus g.122, Utena, Lithuania**

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

Not applicable

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

Fire resistance and reaction to fire characteristics declared according to system 3, by notified body No. 1396.

Other mechanical resistance characteristics declared according to system 4.

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

Manufacturer FPC (Factory process control) according to EN 14509:2013 standard perform process and quality tests of products according to system 3. Insulating panels reaction to fire tests and fire resistance tests executed in Fires s.r.o institute Batizovce, Slovakia.

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:

Audrius Česnavičius, technical director

Kaunas 2021-01-04

Annex No. 1 Declared performance

Panels Type	Hidden joint PIR core material					Standard
	Application	External and internal walls				
Thickness, mm	50	80	100	120	150	
Core density, kg/m ³	40 ± 3					
External metal sheet	0,50; 0,60; 0,70 mm S280GD+Z225; S280GD+Z275; S280GD+Z190 PE, PVDF, PUR, Foodsafe; Linear; mikro-profiling; flat					
Internal metal sheet	0,40; 0,50; 0,60 mm S280GD+Z225; S280GD+Z275; S280GD+Z190 PE, PVDF, PUR, Foodsafe Linear; flat					
Thermal conductivity, λ _D	0,022 W/m·K					
Thermal transmittance, U _{d,s}	0,44	0,27	0,22	0,18	0,15	
Fire reaction class	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 strenght, MPa	0,10	0,08	0,08	0,08	0,08	
Compressive strenght (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 strenght, MPa	0,11	0,12	0,11	0,11	0,11	
Young's modulus, N/mm ²	2,50	3,20	3,10	2,40	3,0	
Reduced long therm shear strenght, MPa	NPD	NPD	NPD	NPD	NPD	
Creep coefficient=2000 h	NPD	NPD	NPD	NPD	NPD	
Creep coefficient=10000 h	NPD	NPD	NPD	NPD	NPD	

Thickness, mm	50	80	100	120	150	
Mean yield stress of compression face sheet, Mpa (downward load)	373	373,9	374,4	375	364,1	EN 14509
Mean yield stress of compression face sheet, Mpa (uplift load)	288	338,1	371,6	405	408	
Bending moment capacity (downward load), kNm	2,84	4,13	5,00	5,86	7,08	
Bending moment capacity (uplift load), kNm	3,53	4,70	5,48	6,26	6,31	
Wrinkling stress, Mpa (downward load)	104	96,7	91,9	87	84,8	
Wrinkling stress, Mpa (uplift load)	128	114,7	105,9	97	82,4	
Yield strenght, Mpa (internal metal sheet)	369	369	369	369	360	
Yield strenght, Mpa (external metal sheet)	262	319,4	357,7	369	396,4	
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)					
Durability	Pass – all colours					

*Detailed information in Fire test reports