

DECLARATION OF PERFORMANCE Nr. BP-21-001/PIR/EN

1. Unique identification code of the product-type:

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

PIR50NF1000-1200WP
PIR80NF1000-1200WP
PIR100NF1000-1200WP
PIR120NF1000-1200WP
PIR140NF1000-1200WP
PIR150NF1000-1200WP
PIR160NF1000-1200WP
PIR180NF1000-1200WP
PIR200NF1000-1200WP

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 authorized 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:

Reaction to fires characteristics declared according to system 1, by notified body No. 1397

Fire resistance 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. Notified body number No. 1397. 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:

Audrius Česnavičius, technical director

Kaunas 2021-01-04

Annex No. 1 Declared performance

Panels Type	Normal joint PIR core material									Standard
	Application	External and internal walls								
Thickness, mm	50	80	100	120	140	150	160	180	200	
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	0,16	0,15	0,14	0,12	0,11	
Fire reaction class	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 strenght, MPa	0,10	0,08	0,08	0,08	0,08	0,08	0,08	0,07	0,06	
Compressive strenght (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 strenght, 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	3,0	3,3	3,3	3,1	3,00	
Reduced long therm shear strenght, MPa	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	
Creep coefficient=2000 h	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	
Creep coefficient=10000 h	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	

Thickness, mm	50	80	100	120	140	150	160	180	200	
Mean yield stress of compression face sheet, Mpa (downward load)	373	373,9	374,4	375	NPD	364,1	364,1	353,3	346	EN 14509
Mean yield stress of compression face sheet, Mpa (uplift load)	288	338,1	371,6	405	NPD	408	408	411	413	
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 (uplift load), kNm	3,53	4,70	5,48	6,26	NPD	6,31	6,31	6,36	6,39	
Wrinkling stress, Mpa (downward load)	104	96,7	91,9	87	NPD	84,8	84,8	82,5	81	
Wrinkling stress, Mpa (uplift load)	128	114,7	105,9	97	NPD	82,4	82,4	67,8	58	
Yield strenght, Mpa (internal metal sheet)	369	369	369	369	NPD	360	360	351	345	
Yield strenght, Mpa (external metal sheet)	262	319,4	357,7	369	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)									
Durability	Pass – all colours									

*Detailed information in Fire test reports