

DECLARATION OF PERFORMANCE

No. LT-U-25-04/301-3/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. Intended use/es:

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

3. Manufacturer:

UAB "BEWI Lithuania", S. Lozoraičio g. 15A, Garliava, LT-53229, Lithuania.

Production department: J. Basanavičiaus g. 122, Utena, LT-28214, Lithuania.

4. System/s of AVCP:

System 3 for reaction to fire and fire resistance.

System 4 for other mechanical parameters.

5a. Harmonized standard:

EN 14509:2013

Notified body/ies:

No. 1396 Fires s.r.o, Batizovce, Slovak Republic.

6. Declared performance:

Panels type	PIR core Standard joint									
Application	External or internal walls and ceilings									
Core density, kg/m ³	40 ± 3									
External metal sheet	Thickness: 0.50; 0.60; 0.70 mm Steel: S280GD Coating: PES, PE, PUR/PA, Foodsafe Profiling: Linear; micro; flat									
Internal metal sheet	Thickness: 0.47; 0.50; 0.60 mm Steel: S280GD Coating: PES, PE, PUR/PA, Foodsafe Profiling: Linear; flat									
Thermal conductivity λ _D , W/(m·K)	≤ 0.022									
Panel thickness, mm	50	80	100	120	140	150	160	180	200	
Thermal transmittance U _{d,s} , W/m ² ·K	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-s1, d0							
Fire resistance	NPD		EI15*		EI30*					
Airborne sound insulation R _w (C;C _{tr})	NPD			27 (-2; -4)						
Shear modulus (core), MPa	3.20	3.20	3.50	3.50	3.50	3.50	3.10	3.10	2.20	
Shear strength, MPa	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.06	
Compressive strength (core), MPa	0.14	0.11	0.11	0.10	0.11	0.11	0.11	0.11	0.11	
Compression modulus of elasticity, MPa	2.3	2.3	2.3	2.3	2.2	2.3	2.3	2.3	2.3	
Tensile strength, MPa	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	
Young modulus, N/mm ²	2.5	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
Reduced long-term shear strength, MPa	NPD									
Creep coefficient t=2000 h	NPD									
Creep coefficient t=10000 h	NPD									
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 (uplift 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									
Air permeability	NPD									
Water vapour permeability	Impermeable									
Dimension control	According to points D.2.1-D.2.11 of EN 14509:2013 standard									
Durability	Pass – all colours									

* More detailed information in fire test reports. Not applicable for ceilings.

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.

Signed for and on behalf of the manufacturer by
Sigita Bagdanovienė, Quality manager
Utena April 30th, 2025

