

DECLARATION OF PERFORMANCE

No. LT-U-25-04/301-1/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.

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 1 for reaction to fire.

System 3 for 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.

No. 1397 UAB "Statybos produkcijos sertifikavimo centras" , Vilnius, Lithuania.

6. Declared performance:

Panels type	PIR core Standard joint								
Application	External or internal walls								
Core density, kg/m ³	40 ± 3								
External metal sheet	Thickness: 0.50; 0.60; 0.70 mm Steel: S280GD+Z225 or equivalent Z amount Coating: PES 25µM Profiling: Linear; micro; flat								
Internal metal sheet	Thickness: 0.47; 0.50; 0.60 mm Steel: S280GD+Z225 or equivalent Z amount Coating: PES 25µM 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.

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

