

DECLARATION OF PERFORMANCE

No. LT-U-25-04/302-3/EN

1. Unique identification code of the product type:

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

PIR 50HF	1000WP
PIR 80HF	1000WP
PIR 100HF	1000WP
PIR 120HF	1000WP
PIR 150HF	1000WP

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 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 Hidden 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, DX51D Coating: PES, PE, PVDF, PUR/PA, Food safe Profiling: Linear; micro; flat				
Internal metal sheet	Thickness: 0.47; 0.50; 0.60 mm Steel: S280GD, DX51D Coating: PES, PE, PVDF, PUR/PA, Food safe Profiling: Linear; flat				
Thermal conductivity λ_D , W/(m·K)	≤ 0.022				
Panel thickness, mm	50	80	100	120	150
Thermal transmittance $U_{d,s}$, W/m ² ·K	0.44	0.27	0.22	0.18	0.15
Reaction to fire	B-s2, d0				
Fire resistance	NPD		E15*		
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
Shear strength, MPa	0.08	0.08	0.08	0.07	0.07
Compressive strength (core), MPa	0.14	0.11	0.11	0.10	0.11
Compression modulus of elasticity, MPa	2.3	2.3	2.3	2.3	2.3
Tensile strength, MPa	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
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	364.1
Mean yield stress of compression to face sheet (uplift load), MPa	288.0	338.1	371.6	405	408.0
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 (downward load), MPa	104.0	96.7	91.9	87.0	84.8
Wrinkling stress (uplift load), MPa	128.0	114.7	105.9	97.0	82.4
Yield strength (internal metal sheet), MPa	369	369	369	369	360
Yield strength (external metal sheet), MPa	262.0	319.4	357.7	369.0	369.4
Water permeability	NPD				
Air permeability	NPD				
Water vapour permeability	Impermeable				
Dimension control	According to D.2.1-D.2.11 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

