



DECLARATION OF PERFORMANCE

No. PIR-LIGHT/2022/1

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1. **Unique identification code of the product-type:** Wall panel PIR LIGHT
2. **Intended use/es:** external and internal walls
3. **Manufacturer:** BALEX METAL sp. z o.o., ul. Wejherowska 12C, 84-239 Bolszewo
4. **System for assessment and verification of functional properties stability:** 3
5. **Harmonised standard:** PN-EN 14509:2013
6. **Notified body/ies:** FIRES s.r.o. (no. 1396), Instytut Techniki Budowlanej (no. 1488)
7. **Deklarowane właściwości użytkowe:** Table 1

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed in the name of the manufacturer by:

Chief Executive Officer

Bolszewo, 23 March 2022

Marek Dzikiewicz



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Table 1: Performances

Essential characteristics			Performances				
Grade of facing material			S250GD				
Coating type	Metallic	External	Z100, Z225, AZ150, AZ185				
		Internal	Z100, Z225, AZ150, AZ185				
	Organic	External	SP15, SP25				
		Internal	SP15				
Cladding thickness	External [mm]		0,4				
	Internal [mm]		0,4				
Type of facing profile	External		L (Lined)				
	Internal		L (Lined)				
Core material			PIR				
Nominal core density [kg/m ³]			37				
Nominal panel thickness d _N [mm]			50	60	80	100	
Panel weight [kg/m ²]			8,3	8,7	9,5	10,2	
Mechanical strength		Bending strength f _{cc} [MPa]	0,13	0,13	0,13	0,13	
		Tensile strength f _{ct} [MPa]	0,08	0,08	0,08	0,08	
		Shear resistance f _{cv} [MPa]	0,13	0,13	0,12	0,12	
		Shear modulus G _c [MPa]	3,5	3,5	3,5	3,5	
	Wrinkling strength [MPa]	In span	External facing	206	207	211	214
			External facing, elevated temperature	188	189	192	195
			Internal facing	143	142	138	135
		At a support	External facing	170	156	127	99
			External facing, elevated temperature	155	142	116	90
			Internal facing	118	117	114	111
Thermal transmittance	Thermal transmittance U _{d,s} [W/(m ² K)]		0,48	0,37	0,28	0,22	
	Thermal conductivity λ _D [W/(mK)]		0,022				
Reaction to fire [classification]			B-s2,d0				
Fire resistance	Vertical orientation classification		-			E15	
	Horizontal orientation classification		NPD				
Water permeability	Resistance classification		A				
Air permeability	Coefficient n, C		NPD				
Water vapour permeability	Water vapour permeability coefficient μ		∞ (Impermeable)				
Sound insulation	Single number rating R _w (C, C _{tr}) [dB]		NPD				
Sound absorption	Sound absorption coefficient α _w		NPD				
Durability	Durability criteria DUR2		Pass				
Regulated substances	Release of regulated substances		NPD				