



DECLARATION OF PERFORMANCE

No. PIR-LIGHT/14509/2021/1

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- 1. Unique identification code of the product-type:** Wall panel PIR LIGHT
- 2. Intended use/es:** Self-supporting sandwich panels with rigid polyisocyanurate (PIR) foam core as external and internal walls,
- 3. Manufacturer:** BALEX METAL sp. z o.o.: Wejherowska 12C, 84-239 Bolszewo
- 4. System/s of AVCP:** 3
- 5. Harmonised standard:** PN-EN 14509:2013
- 6. Notified body/ies:** FIRES, s.r.o. (no. 1396)
- 7. Declared performance/s:** Table 1

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.



BALEXMETAL Sp. z o.o.
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P-191112216

Bolszewo, 23 June 2021

Signed for and on behalf of the manufacturer by:
Certification manager



dr inż. Adam Wawrzynowicz



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Table 1: Essential characteristics

| Panel thickness [mm] | | 50 | 60 | 80 | 100 | |
|--|------------------------|---|------|------|------|-----|
| Cladding steel grade | | S250GD | | | | |
| Type of coating | metallic | Z225, AZ150, AZ185 | | | | |
| | organic | SP15 (internal), SP25 (external) | | | | |
| Cladding thickness | External [mm] | 0,4 | | | | |
| | internal [mm] | 0,4 | | | | |
| Cladding profile types | external | L (lined) | | | | |
| | internal | L (lined) | | | | |
| Core material | | PIR | | | | |
| Nominal core density [kg/m ³] | | 37 | | | | |
| Mass of panel [kg/m ²] | | 9,8 | 10,3 | 11,0 | 11,8 | |
| Reaction to fire | | NPD | | | | |
| Fire resistance of walls | | - | | | E15 | |
| Tensile strength f_{ct} [MPa] | | 0,08 | | | | |
| Shear strength f_{cv} [MPa] | | 0,13 | | 0,12 | | |
| Shear modulus, G_c [MPa] | | 3,5 | | | | |
| Compressive strength f_{cc} [MPa] | | 0,13 | | | | |
| Wrinkling strength [MPa] | in the span | external cladding | 206 | 207 | 211 | 214 |
| | | external cladding, elevated temperature | 188 | 189 | 192 | 195 |
| | | internal cladding | 143 | 142 | 138 | 135 |
| | at an internal support | external cladding | 170 | 156 | 127 | 99 |
| | | external cladding, elevated temperature | 155 | 142 | 116 | 90 |
| | | internal cladding | 118 | 117 | 114 | 111 |
| Thermal conductivity λ_D [W/mK] | | 0,022 | | | | |
| Thermal transmittance $U_{d,s}$ [W/m ² K] | | 0,48 | 0,37 | 0,28 | 0,22 | |
| Water permeability [class] | | NPD | | | | |
| Air permeability n, C [-] | | NPD | | | | |
| Water vapour permeability | | Impermeable | | | | |
| Airborne sound insulation $R_w(C; C_{tr})$ [dB] | | NPD | | | | |
| Sound absorption α_w [-] | | NPD | | | | |
| Durability (DUR 1) | | Pass | | | | |