

**DECLARATION OF PERFORMANCE**  
No. THERMANO/2023/2

|   |   |
|---|---|
| 1. Unique identification code of the product-type:                    | THERMANO ROOF <d <sub>N</sub> >   |
| 2. Intended use:  | Thermal insulation for buildings  |
| 3. Manufacturer:  | BALEX METAL Sp. z o.o., ul. Wejherowska 12C, 84-239 Bolszewo                                  |
| 4. System of Assessment and Verification of Constancy of Performance: | 3   |
| 5. Harmonised standard:   | EN 13165:2012+A2:2016   |
| 6. Notified bodies:   | Instytut Techniki Budowlanej (no. 1488), Polskie Centrum Badań i Certyfikacji S.A. (no. 1434) |
| 7. Declared performances:   | Table 1, Table 2  |

**Table 1. Performances**

| Essential characteristics   | Performances  |  |
|---|---|--|
| Thermal resistance  | Nominal thickness d <sub>N</sub><br>[mm, thickness tolerance class]                                   |  |
|   | Thermal resistance R <sub>D</sub> [m <sup>2</sup> K/W]  |  |
|   | Thermal conductivity coefficient λ <sub>D</sub> [W/mK]  |  |
|   | Thermal resistance R <sub>D</sub> [m <sup>2</sup> K/W]  |  |
| Durability of thermal resistance against heat, weathering, ageing/degradation | Thermal conductivity coefficient λ <sub>D</sub> [W/mK]  |  |
|   | Durability characteristics<br>R <sub>D</sub> and λ <sub>D</sub>                                       | Thermal resistance R <sub>D</sub> [m <sup>2</sup> K/W] |
|   |   | Thermal conductivity coefficient λ <sub>D</sub> [W/mK] |
|   | Determination of the aged values of thermal resistance and thermal conductivity λ <sub>D</sub> [W/mK] |  |
|   | Dimensional stability DS  |  |
|   | Deformation under specified compressive load and temperature conditions DLT                           |  |
| Table 2   |   |  |
| Reaction to fire  | Euroclass   |  |
| Durability of reaction to fire against heat, weathering, ageing/degradation   | Durability of reaction to fire  |  |
| Continuous glowing combustion   | Continuous glowing combustion   |  |
| Compressive strength  | Compressive stress or compressive strength CS   |  |
| Durability of compressive strength against ageing/degradation                 | Compressive creep CC  |  |
| Tensile strength  | Tensile strength perpendicular to faces TR  |  |
| Water permeability  | Flatness after one side wetting FW  |  |
|   | Long term water absorption W <sub>lt</sub>  |  |
| Water vapour permeability   | Water vapour transmission MU and/or Z   |  |
| Acoustic absorption index   | Sound absorption coefficient AP and AW  |  |
| Release of dangerous substances to the indoor environment                     | Release of dangerous substances   |  |
|   |   | E  |
|   |   | E  |
|   |   | NPD  |
|   |   | CS(10\Y)200  |
|   |   | NPD  |
|   |   | TR100  |
|   |   | FW2  |
|   |   | 2  |
|   |   | NPD  |
|   |   | NPD  |
|   |   | NPD  |

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**Table 2. Performances**

| Nominal thickness<br>$d_N$ [mm] | Thickness tolerance<br>[class] | Thermal conductivity coefficient<br>$\lambda_D$ [W/mK] | Thermal resistance<br>$R_D$ [m <sup>2</sup> K/W] |
|---------------------------------|--------------------------------|--|--|
| 40                              | T2                             | 0,023  | 1,70   |
| 50                              | T2                             | 0,023  | 2,15   |
| 60                              | T2                             | 0,023  | 2,60   |
| 70                              | T2                             | 0,023  | 3,00   |
| 80                              | T2                             | 0,023  | 3,45   |
| 90                              | T2                             | 0,023  | 3,90   |
| 100                             | T2                             | 0,023  | 4,35   |
| 113                             | T2                             | 0,023  | 4,90   |
| 120                             | T2                             | 0,023  | 5,20   |
| 125                             | T2                             | 0,023  | 5,40   |
| 140                             | T2                             | 0,023  | 6,05   |
| 150                             | T2                             | 0,023  | 6,50   |
| 160                             | T2                             | 0,023  | 6,95   |

Designations:

NPD - No Performance Determined

< $d_N$ > - nominal panel thickness [mm]


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 for and on behalf of the manufacturer by:  
Chief Executive Officer



**Marek Dzikiewicz**

**Bolszewo, 20.11.2023**

  
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