



## DECLARATION OF PERFORMANCES

No BRI/VF/BRVE/2023\_04

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. Unique identification code of the product type:<br/>BRI/VF/BRVE/2023_04</li> <li>2. Intended use or uses:<br/>Thermal insulation for buildings</li> <li>3. Manufacturer: Boerner Insulation sp. z o.o.<br/>ul. Wyzwolenia 55, Wykroty, 59-730 Nowogrodziec, Poland</li> </ol> | <ol style="list-style-type: none"> <li>4. System or systems of assessment and verification of constancy of performance: AVCP 1 and 3</li> <li>5. Harmonised standard: EN 13162:2012+A1:2015</li> <li>6. Notified certification body or bodies: Nr 1454<br/>Sieć Badawcza Łukasiewicz – Warszawski Instytut Technologiczny</li> <li>7. Declared performances: Table 1</li> </ol> |
|---|---|

Table 1

| DECLARED PERFORMANCES   |  |                                 |                      |   |
|---|--|---------------------------------|----------------------|---|
| Essential characteristics   | Requirement clauses in the European standard                             | Symbol                          | Unit                 | Declared level and/or classes / NPD <sup>1)</sup> |
| Thermal Resistance  | Thermal conductivity   | $\lambda_D$                     | W/mK                 | 0,034   |
|   | Thermal resistance   | $R_D$                           | m <sup>2</sup> K/W   | Table 2   |
|   | Thickness  | Class of tolerance              | mm                   | T5  |
| Durability of thermal resistance against heat, weathering, ageing/degradation | Thermal resistance   | $R_D$                           | m <sup>2</sup> K/W   | Table 2   |
|   | Thermal conductivity   | $\lambda_D$                     | W/mK                 | 0,034   |
|   | Dimensional stability under specified temperature                        | DS (70,-)                       | %                    | NPD   |
|   | Dimensional stability under specified temperature and humidity condition | DS (70,90)                      | %                    | ≤1  |
| Reaction to fire  | Reaction to fire Euroclass characteristics                               | RtF                             | Euroclass            | A1  |
| Durability of reaction to fire against heat, weathering, ageing/degradation   | Durability characteristics   | RtF                             | Euroclass            | A1  |
| Water permeability  | Short time water absorption  | WS                              | kg/m <sup>2</sup>    | ≤1  |
|   | Long time water absorption   | WL(P)                           | kg/m <sup>2</sup>    | ≤3  |
| Water vapour permeability   | Water vapour transition  | MU                              | -                    | 1   |
| Compressive strength  | Compressive stress or compressive strength                               | CS(10)                          | kPa                  | 0,5   |
|   | Point load   | PL(5)                           | N                    | NPD   |
| Tensile strength  | Tensile strength perpendicular to the faces                              | TR                              | kPa                  | NPD   |
| Durability of compressive strength against ageing/degradation                 | Compressive creep  | CC(i1/i2/y)σ <sub>c</sub>       | mm                   | NPD   |
| Impact noise transition index   | Dynamic stiffness  | d <sub>N</sub>                  | mm                   | NPD   |
|   |  | SD                              | MN/m <sup>3</sup>    | NPD   |
|   | Thickness  | d <sub>L</sub>                  | Mm                   | NPD   |
|   | Compressibility  | C                               | mm                   | NPD   |
|   | Air flow resistivity   | d <sub>N</sub>                  | mm                   | NPD   |
| AFr   |  | kPa·s/m <sup>2</sup>            | 5                    |   |
| Direct airborne sound insulation index  | Air flow resistivity   | d <sub>N</sub>                  | mm                   | NPD   |
|   |  | AFr                             | kPa·s/m <sup>2</sup> | 5   |
| Sound absorption index  | Sound absorption   | A <sub>p</sub> , A <sub>w</sub> | -                    | NPD   |
| Continuous glowing combustion   | Continuous glowing combustion  | -                               | -                    | NPD   |
| Release of dangerous substances to the indoor                                 | Release of dangerous substances  | -                               | -                    | NPD   |

<sup>1)</sup> No Performance Declared

| DECLARED THERMAL RESISTANCE         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Thickness[mm]                       | 10   | 20   | 30   | 40   | 50   | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  |
| R <sub>D</sub> [m <sup>2</sup> K/W] | -    | -    | -    | -    | 1,40 | 1,70 | 2,00 | 2,30 | 2,55 | 2,85 | 3,15 | 3,45 | 3,75 | 4,05 | 4,35 |
| Thickness[mm]                       | 160  | 170  | 180  | 190  | 200  | 210  | 220  | 230  | 240  | 250  | 260  | 270  | 280  | 290  | 300  |
| R <sub>D</sub> [m <sup>2</sup> K/W] | 4,65 | 4,95 | 5,20 | 5,50 | 5,80 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |

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

Signed on behalf of the manufacturer by:  
Piotr Bonarski  
Plant Manager

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**Piotr Bonarski**  
*Piotr Bonarski*  
Wykroty, 28.09.2023

Dyrektor Zakładu