



DECLARATION OF PERFORMANCES

No BRI/FR/BRB30/2023_04

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| <ol style="list-style-type: none"> Unique identification code of the product type: BRI/FR/BRB30/2023_04 Intended use or uses: Thermal insulation for buildings Manufacturer: Boerner Insulation sp. z o.o. ul. Wyzwolenia 55, Wykroty, 59-730 Nowogrodziec, Poland | <ol style="list-style-type: none"> System or systems of assessment and verification of constancy of performance: AVCP 1 and 3 Harmonised standard: EN 13162:2012+A1:2015 Notified certification body or bodies: Nr 1454 Sieć Badawcza Łukasiewicz – Warszawski Instytut Technologiczny Declared performances: Table 1 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Table 1

| DECLARED PERFORMANCES | | | | |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------|----------------------|---------------------------------------------------|
| Essential characteristics | Requirement clauses in the European standard | Symbol | Unit | Declared level and/or classes / NPD ¹⁾ |
| Thermal Resistance | Thermal conductivity | λ_D | W/mK | 0,036 |
| | Thermal resistance | R_D | m ² K/W | Table 2 |
| | Thickness | Class of tolerance | mm | T5 |
| Durability of thermal resistance against heat, weathering, ageing/degradation | Thermal resistance | R_D | m ² K/W | Table 2 |
| | Thermal conductivity | λ_D | W/mK | 0,036 |
| | 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 ² | ≤1 |
| | Long time water absorption | WL(P) | kg/m ² | ≤3 |
| Water vapour permeability | Water vapour transition | MU | - | 1 |
| Compressive strength | Compressive stress or compressive strength | CS(10) | kPa | 30 |
| | Point load | PL(5) | N | 250 |
| Tensile strength | Tensile strength perpendicular to the faces | TR | kPa | 7,5 |
| Durability of compressive strength against ageing/degradation | Compressive creep | CC(i1/i2/y)σ _c | mm | NPD |
| Impact noise transition index | Dynamic stiffness | d _N | mm | NPD |
| | | SD | MN/m ³ | NPD |
| | Thickness | d _L | Mm | NPD |
| | Compressibility | C | mm | NPD |
| | Air flow resistivity | d _N | mm | NPD |
| AFr | | kPa·s/m ² | NPD | |
| Direct airborne sound insulation index | Air flow resistivity | d _N | mm | NPD |
| | | AFr | kPa·s/m ² | NPD |
| Sound absorption index | Sound absorption | A _p , A _w | - | NPD |
| Continuous glowing combustion | Continuous glowing combustion | - | - | NPD |
| Release of dangerous substances to the indoor | Release of dangerous substances | - | - | NPD |

¹⁾ No Performance Declared

| DECLARED THERMAL RESISTANCE | | | | | | | | | | | | | | | |
|-------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Thickness[mm] | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 |
| R _D [m ² K/W] | - | - | - | 1,35 | 1,65 | 1,90 | 2,20 | 2,50 | 2,75 | 3,05 | 3,30 | 3,60 | 3,85 | 4,15 | 4,40 |
| Thickness[mm] | 170 | 180 | 190 | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | - |
| R _D [m ² K/W] | 4,70 | 5,00 | 5,25 | 5,55 | - | - | - | - | - | - | - | - | - | - | - |

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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Dyrektor Zakładu

Wykroty, 28.09.2023