

DECLARATION OF PERFORMANCE

No. CPR-DoP-PLO-002

- Unique identification code of the product-type:
MW-EN 13162 T4-DS(70,90)-MU1-WS-WL(P)-AFr12
- Intended use of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:
Thermal insulation for buildings (ThIB)
- Manufacturer: **ROCKWOOL Romania SRL, Bucharest-Ploiesti No 1A Road, C Building, 1st Floor, 013681, District no 1, Bucharest, Romania**
- System of assessment and verification of constancy of performance of the construction (AVCP): **System 1 for the reaction to fire of the product and System 3 for the other characteristics**
- In case of the declaration of performance concerning a construction product covered by a harmonised standard (EN 13162:2012+A1:2015):
TZUS - TEHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, S.P. (notified body n° 1020) performed, carried out the determination of the product type, the initial inspection of the manufacturing plant and of the factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of constancy of performance for reaction to fire No. 1020-CPR-010041766 on April 27, 2023. TZUS - TEHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, S.P. (notified testing laboratory No. 1020 according to EN 13162:2012+A1:2015) performed the test reports for the other relevant declared characteristics. Notified testing laboratory is accredited by CAI according to ISO 17025:2018 and has received accreditation certificate no. 1018.3.
- Declared performance in the Table 1 and Table 2:

Table 1

| Essential characteristics | | Declared performance / NPD ¹⁾ | Harmonized technical specification |
|--|---|--|------------------------------------|
| Thermal resistance | Thermal resistance R_D ($m^2.K/W$) | see Table 2 | EN 13162:2012+A1:2015 |
| | Thermal conductivity λ_D , $W/(m.K)$ | 0.034 | |
| | Thickness, Tl | T4 | |
| Reaction to fire | Euroclasses – reaction to fire (RIF) product | A1 | |
| Durability of reaction to fire against heat, weathering, ageing/ degradation ²⁾ | Durability characteristics Reaction to fire (RiF) product | (a) | |
| Durability of thermal resistance against heat, weathering, ageing/ degradation ²⁾ | Thermal resistance R_D , ($m^2.K/W$) | see Table 2 | |
| | Thermal conductivity λ_D , $W/(m.K)$ | (b) | |
| | Durability characteristics | (c) DS(70,90) | |
| Compressive strength | Compressive stress $CS(10)^+$, $CS(10/r)^+$, (kPa) | NPD | |
| | Point load $PL(5)^+$, (N) | NPD | |
| Tensile / Flexural strength | Tensile strength perpendicular to faces (d), TR_i , (kPa) | NPD | |
| Durability of compressive strength against ageing/ degradation | Compressive creep $[CC(i, i_2)^+ \sigma_c]$, declared X_{ct} and X_p , (mm) | NPD | |
| Water permeability | Short term water absorption, WS (≤ 1 kg/m ²) | WS | |
| | Long term water absorption, $WL(P)$ (≤ 3 kg/m ²) | WL(P) | |
| Water vapour permeability | Water vapour transmission | MU1 ³⁾ | |
| | Water vapour diffusion resistance factor | | |
| Impact noise transmission index (for floors) | Dynamic stiffness SD_i^+ , (MN/m ³) | NPD | |
| | Thickness, d_i | NPD | |
| | Compressibility, c (CP), (mm) | NPD | |
| | Air flow resistivity, AF_i^+ , (kPa.s/m ²) | NPD | |
| Acoustic absorption index | Sound absorption, AW_i^+ | NPD | |
| Direct airborne sound insulation index | Air flow resistivity, AF_i^+ , (kPa.s/m ²) | AF _r 12 | |
| Continuous glowing combustion | Continuous glowing combustion | (e) | |
| Release of dangerous substances to the indoor environment | Release of dangerous substances to the indoor environment | (e) | |

¹⁾No performance determined (NPD); ²⁾No change with time; ³⁾Indicates relevant class of level or declared value; ⁴⁾Tabulated value according to the harmonised standard EN 13162:2012+A1:2015
(a) No change in reaction to fire properties for mineral wool products. The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of the product is related to the organic content, which cannot increase with time (b) Thermal conductivity of mineral wool products does not change with time, experience has shown the fibre structure to be stable and the porosity contains no other gases than atmospheric air. (c) For dimensional stability thickness only. (d) This characteristic also covers handling and installation. (e) European test methods are under development

Table 2

| d(mm) | Thermal resistance, R_D | | | | | | | | | | | | | | | | | | |
|----------------|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 180 | 200 | 220 | 240 | 250 |
| $R_D(m^2.K/W)$ | 0.85 | 1.15 | 1.45 | 1.75 | 2.05 | 2.35 | 2.65 | 2.90 | 3.20 | 3.50 | 3.80 | 4.10 | 4.40 | 4.70 | 5.25 | 5.85 | - | - | - |

NOTE: R value for thickness not seen in Table 2, is available on product label

This declaration of performance is available on the website dop.rockwool.com

The performance of the product identified above is in conformity 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 for and on behalf of the manufacturer by:

Dan-Viorel Savin

Process, Quality and Environment Manager

(Name, function)

Ploiesti, May 04, 2023

(Place, date)

(Signature)

FIRESAFE INSULATION

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