# DECLARATION OF PERFORMANCE

No. 40104

| | |
|---|---|
| Unique identification code of the product-type | PAROC Pro Lamella Mat 80 AluCoat |
| Intended use/es | Thermal insulation for building equipment and industry |
| Manufacturer | Paroc Group, Energiakuja 3, FI-00180 Helsinki |
| System/s of AVCP | AVCP 1 for Reaction to fire, AVCP 3 for other properties |
| Harmonised standard | EN 14303:2009+A1:2013 |
| Notified body/ies | No. 0809 - Eurofins Expert Services Ltd |

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.

Signed for and on behalf of the manufacturer by:
Helsinki 24.5.2022



Paroc Group Oy, Technical Insulation
Saku Lipasti, Product Data and Project Manager

## Declared Performance/s

| PROPERTY | VALUE | ACCORDING TO |
|---|---|---|
| **DIMENSIONAL STABILITY** | | |
| Maximum Service Temperature - Dimensional Stability | 500 °C | EN 14303:2009+A1:2013 (EN 14706) |
| **DURABILITY OF FIRE AND THERMAL PROPERTIES** | | |
| Durability of Reaction to Fire Against Ageing/Degradation | 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. | |
| Durability of Reaction to Fire Against High Temperature | The fire performance of mineral wool does not deteriorate with high temperature. The Euroclass classification of the product is related to the organic content, which remains constant or decreases with high temperature. | |
| Durability of Thermal Resistance Against Ageing/Degradation | 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. | |

## Declared Performance/s

| PROPERTY | VALUE | ACCORDING TO |
|---|---|---|
| **REACTION TO FIRE** | | |
| Reaction to Fire, Euroclass | A1 | EN 14303:2009+A1:2013 (EN 13501-1) |
| **CONTINUOUS GLOWING COMBUSTION** | | |
| Continuous Glowing Combustion | NPD | EN 14303:2009+A1:2013 |
| **THERMAL RESISTANCE** | | |
| Thermal Conductivity in 10 °C, $\lambda_{10}$ | 0,042 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 50 °C, $\lambda_{50}$ | 0,047 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 100 °C, $\lambda_{100}$ | 0,055 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 150 °C, $\lambda_{150}$ | 0,064 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 200 °C, $\lambda_{200}$ | 0,074 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 300 °C, $\lambda_{300}$ | 0,100 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 400 °C, $\lambda_{400}$ | 0,135 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 500 °C, $\lambda_{500}$ | 0,179 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Dimensions and Tolerances | T4 | EN 14303:2009+A1:2013 (EN 823) |
| **WATER PERMEABILITY** | | |
| Water Absorption, Short Term WS, ($W_p$) | ≤ 1 kg/m² | EN 14303:2009+A1:2013 (EN 1609) |
| **WATER VAPOUR PERMEABILITY** | | |
| Water Vapour Diffusion Resistance | MU2 | EN 14303:2009+A1:2013 (EN 12086) |
| **ACOUSTIC ABSORPTION INDEX** | | |
| Sound Absorption | NPD | EN 14303:2009+A1:2013 (EN ISO 354) |
| **COMPRESSIVE STRENGTH** | | |
| Compressive Stress at 10 % deformation CS(10), $\sigma_{10}$ | NPD | EN 14303:2009+A1:2013 (EN 826) |
| **TRACE QUANTITIES OF WATER SOLUBLE IONS AND THE PH VALUE** | | |
| Chloride Ions, Cl- | < 10 ppm | EN 14303:2009+A1:2013 (EN 13468) |
| **RELEASE OF DANGEROUS SUBSTANCES TO THE INDOOR ENVIRONMENT** | | |
| Release of Dangerous Substances | NPD | EN 14303:2009+A1:2013 |