

PAROC Pro Mat 100 AluCoat



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| Certification Number | 0809-CPR-1016 / Eurofins Expert Services Ltd, Kivimiehentie 4, FI-02150 Espoo, Finland |
| Designation Code | MW-EN 14303-T2-ST(+)-550-WS1-MV2-CL10 |
| Short Description | Stone wool mat with reinforced alulaminated facing |
| Application | Thermal insulation for industrial applications when insulating flat or irregular shaped equipment where surface temperature is rather low. |
| Nominal Density | 100 kg/m ³ |

Surface temperature of the facing must not exceed 80 °C (temperature restriction determined in accordance with heat resistance adhesive). PAROC stone wool products are capable of withstanding high temperatures. The binder starts to evaporate when its temperature exceeds approximately 200 °C. The insulating properties remain unchanged, but the compressive stress weakens. The softening temperature of stone wool products is over 1000 °C.

Dimensions

| Dimensions | |
|---------------------------|---------------------------|
| Width x Length | Thickness |
| 1000 x 8000 mm | 30 mm |
| 1000 x 6500 mm | 40 mm |
| 1000 x 4500 mm | 50 mm |
| 1000 x 4000 mm | 60 mm |
| 1000 x 3500 mm | 70 mm |
| 1000 x 3000 mm | 80 mm |
| 1000 x 3000 mm | 90 mm |
| 1000 x 2000 mm | 100 mm |
| In accordance with EN 822 | In accordance with EN 823 |

| Dimensional Stability | | |
|---|--------|----------------------------------|
| Property | Value | According to |
| Maximum Service Temperature - Dimensional Stability | 550 °C | EN 14303:2009+A1:2013 (EN 14706) |

Packaging

Package Type

Plastic Packs on Pallet

Fire Properties

| Reaction to Fire | | |
|-----------------------------|-------|------------------------------------|
| Property | Value | According to |
| Reaction to Fire, Euroclass | A1 | EN 14303:2009+A1:2013 (EN 13501-1) |

| Continuous Glowing Combustion | | |
|-------------------------------|-------|-----------------------|
| Property | Value | According to |
| Continuous Glowing Combustion | NPD | EN 14303:2009+A1:2013 |

Thermal Properties

| Thermal Resistance | | |
|---|------------|----------------------------------|
| Property | Value | According to |
| Thermal Conductivity in 50 °C, λ_{50} | 0,043 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 100 °C, λ_{100} | 0,047 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 150 °C, λ_{150} | 0,055 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 200 °C, λ_{200} | 0,065 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 250 °C, λ_{250} | 0,078 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 300 °C, λ_{300} | 0,095 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 400 °C, λ_{400} | 0,138 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 500 °C, λ_{500} | 0,196 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Dimensions and Tolerances | T2 | EN 14303:2009+A1:2013 |

Moisture Properties

| Water Permeability | | |
|--|-------------------------|---------------------------------|
| Property | Value | According to |
| Water Absorption, Short Term WS, W_p | $\leq 1 \text{ kg/m}^2$ | EN 14303:2009+A1:2013 (EN 1609) |

| Water Vapour Permeability | | |
|-----------------------------------|-------|----------------------------------|
| Property | Value | According to |
| Water Vapour Diffusion Resistance | MV2 | EN 14303:2009+A1:2013 (EN 12086) |

Rate of Release of Corrosive Substances

| Trace Quantities of Water Soluble Ions and the pH Value | | |
|---|----------|----------------------------------|
| Property | Value | According to |
| Chloride Ions, Cl- | < 10 ppm | EN 14303:2009+A1:2013 (EN 13468) |

Sound Properties

| Acoustic Absorption Index | | |
|---------------------------|-------|------------------------------------|
| Property | Value | According to |
| Sound Absorption | NPD | EN 14303:2009+A1:2013 (EN ISO 354) |

Mechanical Properties

| Compressive Strength | | |
|--|-------|--------------------------------|
| Property | Value | According to |
| Compressive Stress at 10 % deformation CS(10), σ_{10} | NPD | EN 14303:2009+A1:2013 (EN 826) |

Emissions

| Release of Dangerous Substances to the Indoor Environment | | |
|---|-------|-----------------------|
| Property | Value | According to |
| Release of Dangerous Substances | NPD | EN 14303:2009+A1:2013 |

Durability

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.

Facings

Facing Material

Reinforced alulaminat

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