

## PAROC Pro Mat 70 AluCoat



Certification Number	0809-CPR-1016 / Eurofins Expert Services Ltd, Kivimiehentie 4, FI-02150 Espoo. Finland
Designation Code	MW-EN 14303-T2-ST(+)-350-WS1-MV2-CL10
Short Description	Stone wool mat with reinforced aluminated facing
Application	Thermal insulation for industrial applications when insulating flat or irregular shaped equipment where surface temperature is rather low.
Nominal Density	70 kg/m <sup>3</sup>

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 5000 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	350 °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 (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, $\lambda_{50}$	0,042 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 100 °C, $\lambda_{100}$	0,048 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 150 °C, $\lambda_{150}$	0,056 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 200 °C, $\lambda_{200}$	0,067 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 250 °C, $\lambda_{250}$	0,080 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 300 °C, $\lambda_{300}$	0,097 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 400 °C, $\lambda_{400}$	0,142 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 <sup>-</sup>	< 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), $\sigma_{10}$	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

Head Office: PAROC GROUP, P.O. Box 240 (Energiakuja 3), FI-00181 Helsinki Finland, Tel. +358 46 876 8000, [www.paroc.com](http://www.paroc.com)

The information in this brochure describes the conditions and technical properties of the disclosed products, valid at the time of publication of this document and until replaced by the next printed or digital version. The latest version of this brochure is always available on the Paroc website. Our information material presents applications for which the functions and technical properties of our products have been approved. However, the information does not mean a commercial guarantee. We do not assume liability of the use of third party components used in the application or the installation of our products. We cannot warrant the suitability of our products if used in an area or conditions which are not provided in our information material. As a result of constant further development of our products we reserve the right to make alterations to our information material at any time. PAROC is a registered trademark of Paroc Group. This data sheet is valid in following countries: international use (general information).