

## PAROC Pro Mat 50



Certification Number	0809-CPR-1016 / Eurofins Expert Services Ltd, Kivimiehentie 4, FI-02150 Espoo, Finland
Designation Code	MW-EN 14303-T2-ST(+)-350-WS1-CL10
Short Description	Stone wool mat.
Application	Thermal insulation in industrial equipments and applications.
Nominal Density	50 kg/m <sup>3</sup>

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 7000 mm	40 mm
1000 x 6500 mm	50 mm
1000 x 6000 mm	60 mm
1000 x 5500 mm	70 mm
1000 x 5000 mm	80 mm
1000 x 4500 mm	90 mm
1000 x 4000 mm	100 mm
1000 x 3000 mm	110 mm
1000 x 2500 mm	120 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

## Fire Properties

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

## 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, $\lambda_{100}$	0,054 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 150 °C, $\lambda_{150}$	0,068 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 200 °C, $\lambda_{200}$	0,085 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 250 °C, $\lambda_{250}$	0,106 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 300 °C, $\lambda_{300}$	0,132 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 400 °C, $\lambda_{400}$	0,199 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)

## 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)

## Durability

Durability of Reaction to Fire Against Ageing/Degradation

The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of 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.

Durability of Thermal Resistance Against High Temperature

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.

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