

PAROC Hvac Mat AluCoat



Certification Number	0809-CPR-1016 / Eurofins Expert Services Ltd, Kivimiehentie 4, FI-02150 Espoo. Finland
Designation Code	MW-EN 14303-T2-ST(+)-250-WS1-MV2-CL10
Short Description	Stone wool mat with reinforced aluminium foil facing.
Application	Thermal insulation.

The surface temperature of the facing must not exceed +80°C (temperature restriction determined in accordance with the heat resistance of 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	30 mm
1000 x 7000	40 mm
1000 x 7000	50 mm
1000 x 7000	60 mm
1000 x 5000	70 mm
1000 x 5000	80 mm
1000 x 4000	90 mm
1000 x 4000	100 mm
In accordance with EN 822	In accordance with EN 823

Dimensional Stability		
Property	Value	According to
Maximum Service Temperature - Dimensional Stability	250 °C	EN 14303:2009+A1:2013 (EN 14707)

Packaging

Package Type	Plastic Packs on Pallet
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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 0 °C, λ_0	0,034 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 10 °C, λ_{10}	0,036 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 50 °C, λ_{50}	0,046 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 100 °C, λ_{100}	0,060 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 150 °C, λ_{150}	0,075 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 200 °C, λ_{200}	0,093 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 250 °C, λ_{250}	0,115 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^-	NPD	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 $\text{CS}(10)$, 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 aluminium foil
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