

PAROC Hvac Mat AluCoat

PAROC Hvac Mat AluCoat is a ventilation and air conditioning duct insulation mat made of non-combustible PAROC® stone wool. The product is designed for thermal and condensation insulation of circular and rectangular ductwork in HVAC systems. It is suitable for indoor and outdoor ducts and HVAC equipment and can withstand medium temperatures of up to 250 °C. For outdoor installations, to maintain the integrity of the AluCoat-facing, the product must be protected from weather conditions with an additional covering.

PAROC Hvac Mat AluCoat does not burn or contribute to fire spread with a reaction to fire classification of Euroclass A1, according to EN 13501-1.

The product flexibility makes the installation process efficient and effective, allowing the mat to easily conform to the shape of ducts and other HVAC systems. It is reinforced with an AluCoat facing, a water vapour-resistant barrier which, together with taped joints, reduces condensation risk and vapour permeability. With PAROC Hvac AluCoat Tape and PAROC Hvac Alu Tape having a facing identical to that of the mat and with other PAROC accessories, correct and efficient insulation can be achieved.



Product Data Sheet

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Dimensions (mm)

Width x Length

Thickness

500 x 4000	90,100
500 x 5000	70,80
500 x 7000	40,50,60
500 x 8000	30
1000 x 4000	90,100
1000 x 5000	70,80
1000 x 7000	40,50,60
1000 x 8000	30

Package Type

Plastic packs on pallet
Other dimensions are available on request.

Product characteristics according to EN 14303

Designation Code	MW-EN 14303-T2-ST(+/-100)250-WS1-MV2-CL10
DoP Number	40053
Thickness Tolerance, T	T2
Reaction to Fire, Euroclass	A1
Maximum Service Temperature - Dimensional Stability	(+/-100)250 °C
Water Absorption, Short Term, W _p	≤ 1 kg/m ²
Water Vapour Diffusion Resistance	MV2
Trace Quantity of Water-soluble Chloride Ions	≤ 10 ppm
Thermal Conductivity, λ _p	See table below

°C	0	10	40	50	100	150	200	250
λ _p W/(m*K)	0.034	0.036	0.043	0.046	0.060	0.075	0.093	0.115

Fire Properties

Surface temperature of the facing must not exceed +80 °C (temperature restriction determined in accordance with heat resistance adhesive).

PAROC Stonewool products are capable of withstanding high temperatures. The binder starts to evaporate when its temperature exceeds approximately 200°C while the fire protecting properties remain unchanged. Stone wool has a high melting point of over 1000°C (internal test method).

Environmental Properties

The European Certification Board for Mineral Wool products (EUCEB) trademark on our products confirms that PAROC Stonewool fibre fulfils the bio solubility requirements of EU directive No. 1272/2008. The German RAL quality mark confirms that the bio solubility and safety requirements are met according to the German technical regulation TRGS905.

PAROC Stonewool is made of stone. The volume of the product is ~98% air and only ~2% fiberized stone. The excellent properties of the product are based on the properties of the raw materials. PAROC Stonewool maintains its insulating ability and dimensions throughout the reference service life of the the building, which is considered to be minimum 50 years.

PAROC Stonewool is reusable and can be recycled into new stone wool products.

Certificates and Approvals

EC Certificate of Conformity

0809-CPR-1016

PAROC mats can be used to satisfy the requirements as given in the tables for insulation thickness in BS5422:2023. PAROC can offer help and assistance to customers to confirm that the insulation systems proposed do in fact achieve the necessary performance criteria.

Storage and Installation

PAROC products should be stored in packaging protected against external weather conditions.

Installation in accordance with the design assumptions or based on the manufacturer's instructions.

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