

# PAROC Hvac Lamella Mat BlackCoat

PAROC Hvac Lamella Mat BlackCoat 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 pipes 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. The product combination of flexibility and stiffness makes the installation process efficient and effective by allowing the mat to easily conform to the shape of ducts and other HVAC systems.

PAROC Hvac Lamella Mat BlackCoat does not burn or contribute to fire spread with a reaction to fire classification of Euroclass A2-s1,d0, according to EN 13501-1. The lamellas' perpendicular fiber orientation maintains stiffness to preserve its designed thickness on all edges, guaranteeing consistent insulation performance and enhancing the overall efficiency of the HVAC system. The product is tested according to voluntary indoor emission classification certificate M1.

It is reinforced with a BlackCoat facing, a water vapour-resistant barrier, which together with taped joints reduces condensation risk and vapour permeability. The matte black finish minimises light reflection, offering a discreet appearance for visible installations. With PAROC BlackCoat Tape having a facing identical to that of the lamella mat, and with other PAROC accessories, correct and efficient insulation can be achieved.



## Product Data Sheet

!!ATT\_PDSPublicationDate~~

Dimensions (mm)	Width x Length	Thickness
	1000 x 2500	100
	1000 x 3000	80
	1000 x 4000	60
	1000 x 5000	50
	1000 x 6000	40
	1000 x 8000	30
	1000 x 9000	25
	1000 x 10000	20

<b>Nominal Density</b>	35 kg/m <sup>3</sup>
<b>Package Type</b>	Plastic packs on pallet Other dimensions are available on request.

<b>Product characteristics according to EN 14303</b>	Designation Code	MW-EN 14303-T4-ST(+)-250-WS1-MV2-CL10
	DoP Number	40349
	Thickness Tolerance, T	T4
	Reaction to Fire, Euroclass	A2-s1,d0
	Maximum Service Temperature - Dimensional Stability	250 °C
	Water Absorption, Short Term, W <sub>p</sub>	≤ 1 kg/m <sup>2</sup>
	Water Vapour Diffusion Resistance	MV2

Trace Quantity of Water-soluble Chloride Ions ≤ 10 ppm  
 Thermal Conductivity,  $\lambda_D$  See table below

°C	10	40	50	100	150	200	250
$\lambda_D$ W/(m*K)	0.038	0.043	0.047	0.059	0.074	0.091	0.110

## 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 lamella 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 indoors, in a dry location.

Installation in accordance with the manufacturer's instructions.

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