

# PAROC® HVAC MAT ALUCOAT



**PAROC®**

## BENEFITS

### WIDE RANGE OF DIAMETERS:

- Lightweight, flexible solution due to the horizontal fibre orientation suitable for a wide range of duct diameters

### QUICK ASSEMBLY ALSO ON COMPLEX SHAPES:

- The product flexibility makes the installation process more efficient, allowing the mat to easily adapt to possible complex shapes of ducts and other HVAC systems
- Available in 2 widths (1000 mm or 2 x 500 mm) supports flexible handling

### REDUCTION OF CONDENSATION RISK:

- PAROC® Hvac Mat AluCoat has a water vapour-resistant barrier made of reinforced aluminium foil. When used with PAROC® AluCoat Tape and PAROC® Hvac AluCoat Tape, it enables easy and accurate installation with precise joint sealing, reducing the risk of condensation and water vapour permeability

### LESS TAPE NEEDED:

- For larger diameter ducts, the mat length of ≥4 meters simplifies assembly by reducing the number of joints, which in turn minimizes the need for tape. PAROC® provides a complete set of accessories, including PAROC® AluCoat Tape and PAROC® Hvac AluCoat Tape, to ensure correct and professional installation

### OPTIMISED PACKAGING:

- Approximately 30% more square meters per package for mats with thicknesses of 80 mm<sup>1</sup> and 100mm<sup>1</sup>
- Small pallet size (1200 x 1200 mm) requires smaller forklifts and needs less storage space; the loading volume on the truck can be doubled
- Pallet hoods for temporary weather protection available

### MULTIPLE APPLICATIONS:

- Circular ducts
- Rectangular ducts
- Flat surfaces
- Tanks
- Pipelines

## ACCESSORIES

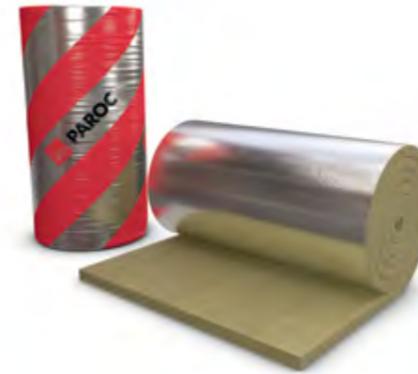


<sup>1</sup>compared to other PAROC stone wool mats



## PAROC® HVAC MAT ALUCOAT

A stone wool insulation mat coated on one side with a reinforced aluminium foil facing.

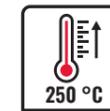


### Applications

- The product is a ventilation and air conditioning duct insulation mat designed for thermal insulation and reduction of condensation risk of circular and rectangular ductwork in HVAC systems

### Technical properties

- Does not burn nor contribute to fire spread with a reaction to fire classification of Euroclass A1, according to EN 13501-1
- Suitable for all indoor ventilation and air conditioning ducts and Hvac equipment with medium temperature up to 250°C
- The temperature on the connection between the wool and the facing must not exceed 80 °C
- Short term water absorption (declared) WS, Wp ≤ 1 kg/m<sup>3</sup> according to EN 1609
- Low-chloride content according to EN13468 is below 10 ppm what reduces the risk of corrosion
- Designation Code: MW-EN 14303-T2-ST(+/100)250-WS1-MV2-CL10



Datasheet



Nominal thermal conductivity  $\lambda$  according to EN 12667

t	°C	10	50	100	150	200	250
$\lambda_{N,P}$	W/mK	0,036	0,046	0,060	0,075	0,093	0,115

<sup>1</sup>Owens Corning internal test results, June 2023-24 for normal quality control/FPC

Thickness mm	Length mm	Width mm	Contents of package m <sup>2</sup> /pack.	Contents m <sup>2</sup> /pallet
30	8000	1000/500	8,00	168,00
40	7000	1000/500	7,00	147,00
50	7000	1000/500	7,00	147,00
60	7000	1000/500	7,00	147,00
70	5000	1000/500	5,00	105,00
80	5000	1000/500	5,00	105,00
90	4000	1000/500	4,00	84,00
100	4000	1000/500	4,00	84,00

Other insulation dimensions and thicknesses available per request

# PAROC® CALCULUS: DESIGN AN ENERGY EFFICIENT INSULATION SOLUTION TAILORED TO YOUR PROJECT

PAROC® Calculus is a technical insulation calculation program for dimensioning thermal insulation for different HVAC and Process Industry applications e.g. pipes, ventilation ducts and process industry tanks. With PAROC® Calculus it is also possible to calculate the heat loss for insulated and uninsulated valves and flanges, which usually increases the risk of heat loss. Additionally, the heat loss caused by thermal bridges in pipe and duct suspensions can be taken into account.

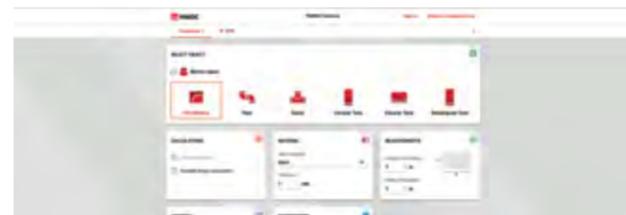
With PAROC® Calculus you can design energy efficient and economical insulation solutions for different HVAC and process industry applications with PAROC products.

## PAROC® Calculus features:

- Easy to use interface
- Works on pc, tablets and mobile phones
- Calculations for heat loss, surface temperature and temperature drop in pipes, ventilation ducts, process industry tanks, valves and flanges.
- Easy input of pipe diameters and duct dimensions (predefined)
- Thermal bridges of pipe and duct suspensions
- Print out your calculations to pdf
- All calculations are based on equations described in the EN ISO 12241 standard.
- Calculation with insulation materials from other manufacturers possible, after specifying the technical properties of the insulation material (for registered users)

**Updated according to ISO 12241:2022**

Select application



Calculate with surface temperature display - cladding systems, suspensions and substructures can optionally be used for the calculation



This software (the Service) calculates properties of insulation solutions made by PAROC Technical Insulation products. Calculations are based on standard ISO 12241. The latest version is always on Paroc web pages. The information contained in the online insulation, energy and CO<sub>2</sub> calculations (the Service) is provided in good faith and for general information purpose only. Owens Corning as well as any of its direct or indirect affiliates, including Paroc Group OY (individually and jointly "Owens Corning") assumes no responsibility for errors or omissions in the contents of the Service, including technical or product data, product recommendations, research information, data and/or content contained in the Service. In providing the Service, Owens Corning does not make any warranties about its completeness, its reliability and its accuracy. Any action you take upon the information you find in using the Service, is strictly at your own risk. In no event shall Owens Corning be liable for any special, direct, indirect, consequential, or incidental damages or any other damages whatsoever, whether in an action of contract, negligence or other tort, arising out of or in connection with the use of the Service or the contents of the Service. Owens Corning reserves the right to make additions, deletions, or modification to the contents on the Service at any time without prior notice. By using the Service, you hereby consent to the present disclaimer and agree to its terms.

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