

# PAROC® HVAC LAMELLA MAT BLACKCOAT

**NO ADDITIONAL PAINTING NECESSARY  
DUE TO BLACK FINISH**

**FIRECLASS A2-s1, d0  
IN ACCORDANCE WITH EN  
14303:2009+A1:2013 (EN 13501-1);**

**NO NEED TO CONSIDER FIRE REACTION  
CLASSES IF NO ADDITIONAL PAINTING IS  
APPLIED**

**PERFECT FOR "INVISIBLE" INSULATION  
SOLUTIONS DUE TO BLACK FINISH**

**COMBINATION OF FLEXIBILITY AND  
STIFFNESS FACILITATE AN EFFICIENT  
INSTALLATION PROCESS, ALLOWING AN  
EASY ADAPTATION TO THE SHAPE OF DUCTS  
AND OTHER HVAC SYSTEMS**

**FULL SYSTEM INCLUDING ACCESSORIES  
(HEAD PINS AND TAPE)**

**TESTED ACCORDING TO VOLUNTARY  
INDOOR EMISSION CLASSIFICATION  
CERTIFICATE M1**



**PAROC®**

# PAROC® HVAC LAMELLA MAT BLACKCOAT

When a discreet/invisible finish is required, contractors often cover all installations - including insulation - with black paint. This could require additional work and time - time that could be spent working on another project. PAROC® Hvac Lamella Mat BlackCoat provides a test-documented A2-s1, d0 fire class - **no need to consider fire reaction classes if no additional painting is applied.**



- **PAROC® Hvac Lamella Mat BlackCoat** is a stone wool lamella mat that is coated with a special matte layer of a water vapor-resistant barrier in the form of a reinforced black aluminium foil which will support an outstanding finish, as well as significantly reducing the installation time required due to the fact that there is no need for additional painting.

PAROC® Hvac Lamella Mat BlackCoat provides an effective thermal insulation, a test-documented A2-s1, d0 fire reaction class and a broad thickness range available (from 20 to 100 mm). Dedicated PAROC installation accessories (e. g. PAROC® BlackCoat Tape and PAROC® Head pins BLC) support an easy installation and can ensure that the system's parameters are maintained.

**PAROC® Hvac Lamella Mat BlackCoat has a fire rating with a score of:**

**A2-s1, d0**

in accordance with EN 14303:2009+A1:2013 (EN 13501-1)



**PAROC® BLACKCOAT TAPE**  
Reinforced aluminum foil tape with a black color lacquer finish, acrylic pressure sensitive adhesive and siliconized release paper liner



**PAROC® PALETTE HOODS**  
Protective hood is great for covering pallets against dirt, moisture and dust



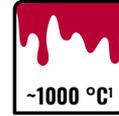
**PAROC® PRO KNIVES**  
Particularly suitable for cutting Paroc products



**PAROC® HEAD PINS BLC**  
Welding pin insulated with a black, galvanised plate



**PAROC® HEAD PINS ALC**  
Pin Insulated is designed for capacitor discharge welding devices for welding directly through the insulation.



Datasheet

## PAROC® HVAC LAMELLA MAT BLACKCOAT

Stone wool lamella mat reinforced with a BlackCoat facing, a water vapour-resistant barrier which - combined with taped joints - can reduce the risk of condensation and water vapour permeability. The matte black finish minimises light reflection, offering a discreet appearance for visible installations. PAROC® provides a complete set of accessories, including PAROC® BlackCoat Tape, to ensure correct and professional installation.

### Application

- The product provides thermal insulation and reduces the risk of condensation in circular and rectangular ductwork within HVAC systems. Suitable for all indoor ventilation ducts and HVAC equipment with a medium temperature up to 250 °C. The combination of flexibility and stiffness makes the installation process more efficient, allowing the mat to easily conform to the shape of ducts and other HVAC systems.

### Properties

- Fire Reaction Euroclass A2 - s1, d0; according to EN 14303:2009+A1:2013 (EN 13501-1)
- Declared thermal conductivity at 50 °C,  $\lambda_{50}$  0.047 W/mK
- Dimensions and tolerances acc. to T4



Nominal thermal conductivity value, according to PN-EN ISO 8497

| t               | °C   | 10    | 50    | 10    | 150   | 200   | 250   |
|-----------------|------|-------|-------|-------|-------|-------|-------|
| $\lambda_{N,P}$ | W/mK | 0.038 | 0.047 | 0.059 | 0.074 | 0.091 | 0.110 |

Note: The surface temperature of faced products must not exceed 80°C.

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

## Other PAROC® Lamella Mats:

PAROC® Hvac Lamella Mat AluCoat

PAROC® Hvac Lamella Mat AluCoat Fix

PAROC® Pro Lamella Mat AluCoat

PAROC® Pro Lamella Mat Clad



## ADVANTAGES OF PAROC® HVAC LAMELLA MAT BLACKCOAT:



SAVE TIME  
AND MONEY

- **Save time and money**

Ready-made finish means faster installation and less effort on the construction site, since no additional painting is needed.



AVOID FIRE  
HAZARDS

- **Avoid fire hazards**

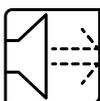
When tested to EN 13501-1, PAROC® products offer the highest fire class either Euroclass A2-s1,d0. Our stone wool insulation products are non-combustible. They do not burn or contribute to fire spread. They will not produce any smoke or very limited amount of smoke, nor do they produce flaming droplets. The softening temperature of stone wool products is over 1000°C. The fire performance of stone wool does not deteriorate with high temperatures, nor with time.



PREVENT  
CONDENSATION

- **Prevent condensation**

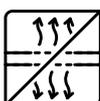
The factors that determine whether condensation forms on the duct are the surface temperature of the duct itself and the ambient air's temperature and relative humidity. To prevent condensation, the duct needs to be insulated so that the surface temperature is higher than the dew point of the surrounding air. In order to minimize the risk of condensation and water vapour permeability, PAROC® products have a water vapour-resistant barrier in the form of a reinforced aluminium foil called AluCoat or BlackCoat.



REDUCE  
NOISE

- **Reduce noise**

Ventilation systems often transfer noise from one room to another as the air flows through them. This may disturb the occupants of the building. Mineral wool insulation that's applied to the outside and inside of ventilation systems can help to reduce this noise.



PREVENT  
THERMAL  
TRANSFER

- **Reduce thermal transfer**

Ducts that transport warm and cold air require good thermal insulation. If the cool or warm air is heated or cooled by the surrounding air, the HVAC system will function less effectively, resulting in heat transfer (heat loss or heat gain). Proper insulation maintains the desired temperature, saves energy, and reduces costs. With our insulation solutions we offer low lambda values, according to local market requirements, and high thermal resistance, helping to minimize thermal transfer. Please consult the respective product data sheet for more information.



LOW WATER  
ABSORPTION

- **Low water absorption**

Tests carried out in accordance with EN 1609 and EN 13472 indicate that PAROC® products, in normal application and with correct finish, should not absorb or store moisture. The water absorption of PAROC stone wool solutions is far below the required value of 1 kg/m<sup>2</sup>.

# 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:

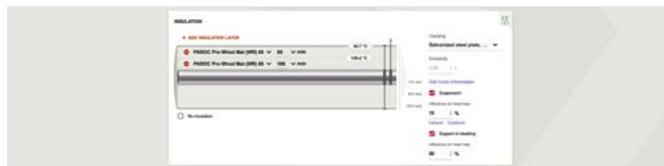
- Easy to use interface
- Works on pc, tablets and mobile phones
- Calculations for heat loss, surface temperature and temperature drop in pipes, ventilation ducts, process industry tanks, valves and flanges.
- Easy input of pipe diameters and duct dimensions (predefined)
- Thermal bridges of pipe and 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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