

INTRODUCING THE **PAROC® VECT RANGE**

**PASSIVE FIRE PROTECTION SOLUTIONS
FOR HVAC VENTILATION DUCTS**



PROTECTING LIFE STARTS WITH WHAT YOU BUILD IN

Every building is designed to protect the people inside it. In the event of fire, that protection depends on many elements working together, including the systems hidden behind walls, ceilings and service spaces.

At Owens Corning® PAROC®, protecting precious life is the priority behind our HVAC passive fire protection solutions. Our products are developed to help support safer buildings, reliable fire performance and the high standards our customers expect.

With 90 years of stone wool expertise and a strong focus on performance in demanding building conditions, we continue to develop solutions that help professionals build with confidence.



OUR GOAL WAS TO BUILD A PRODUCT RANGE THAT MEETS ALL CRITERIA FOR FIRE SAFETY. THIS CHALLENGE BECAME AN OPPORTUNITY TO REIMAGINE OUR APPROACH TO HVAC FIRE PROTECTION SOLUTIONS.



**MELANIE AUBERT
OWENS CORNING R&D LEADER**



ENGINEERED FOR FIRE SAFETY. DEVELOPED FOR HVAC SYSTEMS

The PAROC® Vect range has been developed to meet a clear need in modern construction: reliable passive fire protection for HVAC ventilation ducts that also works in practice onsite.

Behind the range is a development journey shaped by engineering expertise, rigorous testing and close collaboration with customers and industry professionals. Every solution is designed with the same goal in mind: consistent quality, proven fire performance and practical installation for demanding building projects.

With global expertise and a strong understanding of local market needs, PAROC® Vect brings together fire safety, technical performance and user-focused design in one comprehensive product range for HVAC ventilation duct fire protection.



COMMITMENT TO QUALITY IS WOVEN INTO EVERY ASPECT OF PAROC® VECT PRODUCTION. AS THE CONSTRUCTION INDUSTRY CONTINUES TO RAISE THE BAR FOR SAFETY AND PERFORMANCE, PAROC® VECT DEMONSTRATES THAT WHEN ENGINEERING EXPERTISE MEETS CUSTOMER INSIGHT AND UNWAVERING QUALITY STANDARDS, THE RESULT IS FIRE PROTECTION SOLUTIONS THAT TRULY DELIVER ON THEIR PROMISE OF PROTECTING PRECIOUS LIFE BELOW.



**MELANIE AUBERT
R&D LEADER**

THE SCIENCE BEHIND HVAC VENTILATION DUCT FIRE PROTECTION

TESTED AND VALIDATED FOR REAL FIRE SCENARIOS

Technical validation of PAROC® Vect products involved rigorous testing at Europe's leading fire laboratories. The systems are classified according to EN 13501-3, based on testing according to EN 1366-1, which evaluates the fire resistance of ventilation ducts.

Each insulated duct assembly must be tested in multiple configurations, including horizontal and vertical positions, and fire exposure from both inside and outside the duct. Accredited fire laboratories across Europe perform these tests to verify performance under demanding conditions.

HVAC ventilation systems are essential for healthy, comfortable and energy-efficient buildings. But in the event of fire, ventilation ducts can also become pathways for flames, heat and smoke to spread from one compartment to another.

That is why passive fire protection is required when HVAC ventilation ducts penetrate fire-rated walls or floors. Without proper insulation, these penetrations can weaken fire compartments and allow fire and smoke to spread more quickly through a building.

PAROC® Vect solutions are designed specifically to maintain fire compartmentation and support safer building performance in HVAC duct systems.



OUR STONE WOOL IS INHERENTLY NON-COMBUSTIBLE AND ACHIEVES THE HIGHEST FIRE SAFETY CLASSIFICATIONS ACCORDING TO EUROPEAN STANDARDS. THIS MEANS OUR PRODUCTS DO NOT CONTRIBUTE TO FIRE DEVELOPMENT AND OFFER RELIABLE PROTECTION IN REAL-LIFE FIRE SCENARIOS.



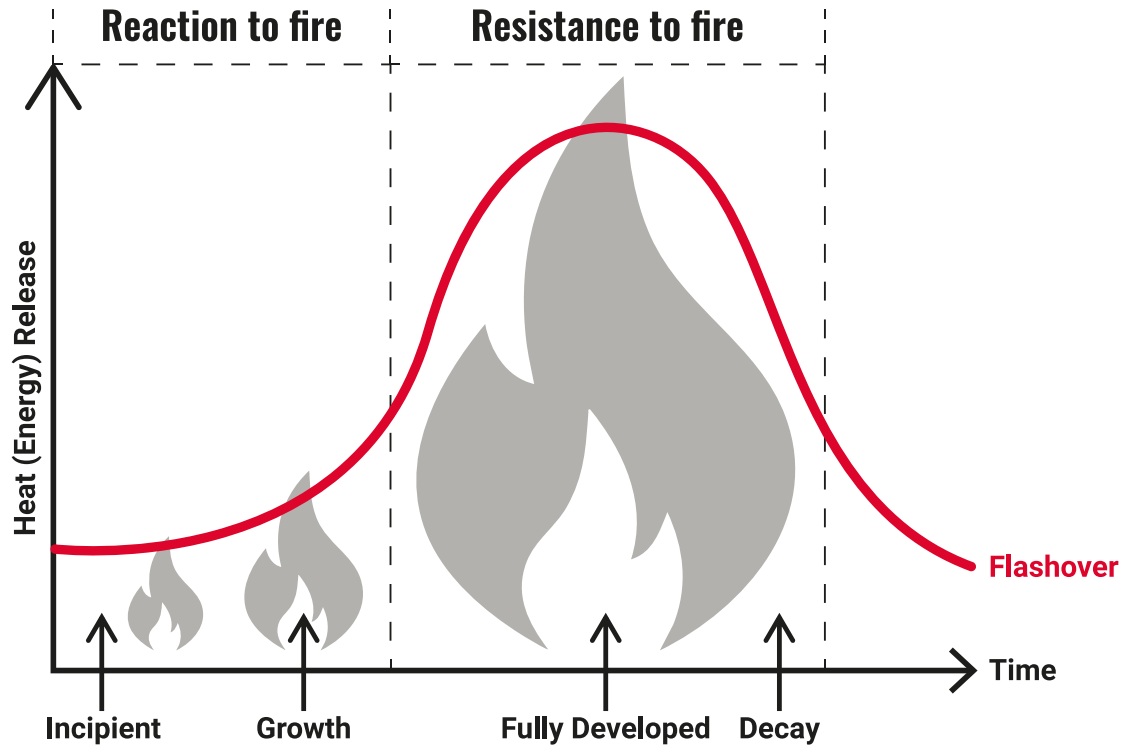
**MIROSLAV SMOLKA
SENIOR ENGINEER, OWENS CORNING R&D**



PAROC® Stonewool products are CE marked, indicating they meet essential European health, safety, and environmental protection requirements. They are also covered by the harmonized product standard EN 14303. According to EN 14303, producers must declare the Reaction to Fire Euroclass (EN 13501-1) in the Declaration of Performance (DoP) for each product.



Resistance to fire properties for fire resisting ducts are qualified according to testing standard EN 1366-1 and classified according to standard EN 13501-3. These properties will always have additional proof in the form of a classification report.



UNDERSTANDING FIRE RESISTANCE CLASSIFICATIONS

Fire protection solutions for HVAC ventilation ducts are classified according to their ability to maintain fire resistance performance during fire exposure.

E INTEGRITY
Prevents flames and hot gases from passing through the duct system.

I INSULATION
Limits the temperature rise on the non-fire side.



EI 30
The duct system maintains integrity and insulation for at least 30 minutes during fire exposure.



EI 60
The duct system maintains integrity and insulation for at least 60 minutes during fire exposure.

These classifications help ensure HVAC duct systems maintain fire compartmentation and help prevent fire and smoke from spreading between building areas.

ONE RANGE, MULTIPLE HVAC VENTILATION PASSIVE FIRE PROTECTION SOLUTIONS

PAROC® Vect offers passive fire protection solutions for HVAC ducts, designed to support safe evacuation and reduce fire-related damage in the event of a fire, tested by leading European fire testing institutes. The portfolio is aimed for ventilation insulation professionals.

The PAROC® Vect portfolio includes solutions for EI 30 and EI 60 fire resistance classifications, supporting both circular and rectangular HVAC duct systems.



QUALITY AT PAROC® IS ABOUT MORE THAN PASSING TESTS ONCE. IT'S ABOUT ENSURING CONSISTENCY, RELIABILITY AND PERFORMANCE IN EVERY PRODUCT WE DELIVER.



**HANNU-PETTERI MATTILA
QUALITY DEVELOPMENT MANAGER**

AVAILABLE PRODUCT SOLUTIONS INCLUDE:



**PAROC® VECT MAT BLACKCOAT
EI30 AND EI60**



**PAROC® VECT WIRED MAT
BLACKCOAT EI30 AND EI60**



**PAROC® VECT SLAB
BLACKCOAT EI30 AND EI60**

Each product is designed to deliver reliable fire protection performance while also supporting efficient installation on site.

Product	Duct System	Fire Resistance	Fire Class	Density	Thickness	Thermal Conductivity (at 10 °C)	Suitable for Condensation Prevention
PAROC® Vect Mat Blackcoat EI30	Circular ducts	EI30 ($v_e h_o i \leftrightarrow o$) S	Euroclass A2-s1,d0 (EN 13501-1)	60 kg/m ³	60	0,035 W/mK	Yes, when PAROC® BlackCoat Tape is properly used
PAROC® Vect Mat Blackcoat EI60	Circular ducts	EI60 ($v_e h_o i \leftrightarrow o$) S	Euroclass A2-s1,d0 (EN 13501-1)	60 kg/m ³	100	0,035 W/mK	Yes, when PAROC® BlackCoat Tape is properly used
PAROC® Vect Wired Mat Blackcoat EI30	Circular and rectangular ducts	EI30 ($v_e h_o i \leftrightarrow o$) S	Euroclass A2-s1,d0 (EN 13501-1)	80 kg/m ³	60	0,034 W/mK	No
PAROC® Vect Wired Mat Blackcoat EI60	Circular ducts	EI60 ($v_e h_o i \leftrightarrow o$) S	Euroclass A2-s1,d0 (EN 13501-1)	90 kg/m ³	80	0,034 W/mK	No
PAROC® Vect Slab BlackCoat EI30	Rectangular ducts	EI30 ($v_e h_o i \leftrightarrow o$) S	Euroclass A2-s1,d0 (EN 13501-1)	80 kg/m ³	50	0,035 W/mK	Yes, when PAROC® BlackCoat Tape is properly used
PAROC® Vect Slab BlackCoat EI60	Rectangular ducts	EI60 ($v_e h_o i \leftrightarrow o$) S	Euroclass A2-s1,d0 (EN 13501-1)	120 kg/m ³	70	0,037 W/mK	Yes, when PAROC® BlackCoat Tape is properly used



**SCAN THE QR CODE TO
FIND OUT MORE ABOUT
EACH PRODUCT
[PAROC.COM/VECT](https://www.paroc.com/vect)**

KEY BENEFITS



FIRE RESISTANCE

Passive fire protection is required when ventilation ducts pass through fire-rated walls or floors, where the integrity of fire compartments must be maintained. Proper fire insulation helps prevent the spread of fire and smoke and ensure that building elements retain their designed fire resistance. PAROC® Vect passive fire protection solutions are designed for ventilation ducts penetrating walls and floors, and help preserve fire-resistant compartments. The solutions are fire-tested according to EN 1366-1 and classified according to EN 13501-3, providing proven fire resistance for HVAC duct applications.



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. PAROC® HVAC insulation products with low thermal conductivity* and high thermal resistance can contribute to limited heat loss or gain, and temperature changes, which in turn can lead to lower and more efficient energy use and reduced operating costs.

**Please consult the respective local product data sheet for more information.*



FLEXIBLE INSULATION

The insulation layout is not restricted by duct joints or support: transverse joints can be placed where needed. This installation flexibility is verified through EN 1366-1 fire testing for PAROC® Vect Wired Mat BlackCoat EI60. The solution also supports up to 1.8 m hanger distance on circular ducts, helping reduce hanger count and speed up installation—validated by the same fire test evidence. Overall, it is a flexible EI60 insulation solution that supports both design freedom and efficient installation.



QUICK INSTALLATION

PAROC® Wired Mat BlackCoat- mats are up to 10% faster to install, without the need to sew or to hook the transversal joints. This is confirmed by internal simulation tests PAROC® Vect Wired Mat EI30. Where the installation of the mat was, depending on mat width (900/600) and duct size, 6-10% faster than competing products in the same category.



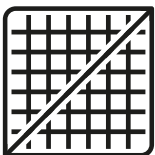
CIRCULAR AND RECTANGULAR COMPATIBLE

PAROC® Wired Mat BlackCoat EI30 is compatible for both circular and rectangular ducts, verified through EN 1366-1 fire testing standard.



PREVENT CONDENSATION

To prevent condensation, the insulation surface temperature must remain above the dew point of the surrounding air. PAROC® Vect 3-in-1 BlackCoat products are equipped with a reinforced, water vapour resistant BlackCoat facing that limits vapour diffusion. When correctly installed and sealed with PAROC® tapes, the facing forms a continuous water vapour barrier with airtight joints, helping prevent the risk of condensation on HVAC ducts.



NO PERFORATION

PAROC® Vect 3-in-1 BlackCoat products features a non perforated BlackCoat facing, meaning the insulation surface remains intact without openings through the coating. This enables the mat to function as part of a 3-in-1 system solution integrated water vapour control. When joints are correctly sealed with PAROC® BlackCoat Tape, the facing forms a continuous, airtight surface without the need for additional gluing.



EASY PREPARATION

Knife cut preparation supports efficient and smooth handling on site. PAROC® Vect 3-in-1 mats and slabs are easy to cut with a knife and combine optimal stiffness with flexibility, enabling efficient preparation and installation in confined spaces and demanding installation conditions.

PAROC® VECT MAT BLACKCOAT

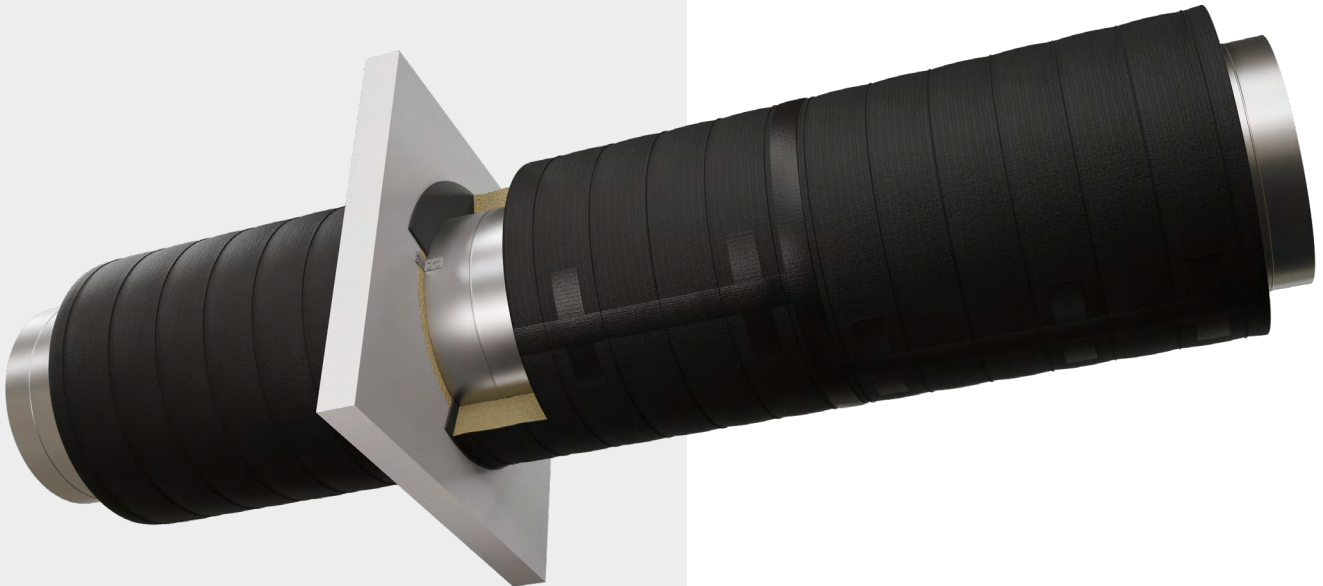
3-IN-1 SYSTEM SOLUTIONS FOR CIRCULAR HVAC DUCTS

PAROC® Vect Mat BlackCoat-mats are HVAC duct insulation mats made from non-combustible PAROC® Stonewool and covered with black aluminum facing called BlackCoat.

The products are designed as a one-layer 3-in-1 insulation system combining:

- passive fire protection
- condensation risk reduction
- thermal insulation

The flexible mat structure allows efficient installation around circular HVAC ducts while maintaining required fire resistance performance. It is suitable for indoor HVAC ventilation ducts with operating temperatures up to 250°C.



PAROC® VECT MAT BLACKCOAT IS AVAILABLE IN:



EI 30

30 minutes fire resistance solution



EI 60

60 minutes fire resistance solution

KEY BENEFITS

- 3-in-1 system: fire protection, condensation prevention and thermal insulation
- The Nordic region's only certified fire protection solutions with condensation protection for circular ducts, tested in accordance with EN 1366-1
- Up to 20 % faster installation of mat compared to traditional double layers for combined fire insulation and condensation protection*
- Easy on site preparation and handling, as the mat can be measured directly from the duct and cut from the roll using a knife, supporting efficient installation without pre cutting or double handling.
- Full coverage and discreet finish with BlackCoat surface and PAROC® BlackCoat tape

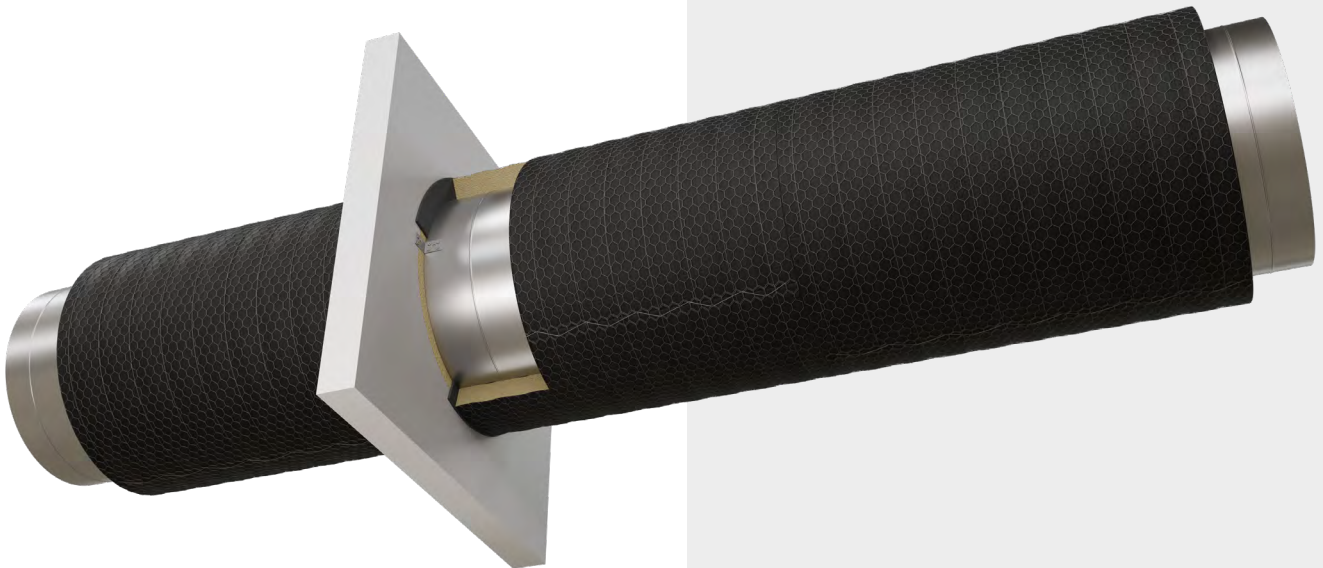
** In internal simulation tests, PAROC® Vect Mat BlackCoat EI60 was installed up to 15% faster and up to 20% faster with PAROC® Vect Mat BlackCoat EI30, compared to the standard double-layer solution with mesh and slatted mat.*

PAROC® VECT WIRED MAT BLACKCOAT

**FIRE PROTECTION WITH FAST AND
FLEXIBLE INSTALLATION**

PAROC® Vect Wired Mat BlackCoat are fire protection insulation solutions for HVAC ventilation ducts made from non-combustible PAROC® Stonewool and reinforced with a wire mesh.

The products have good dimensional stability, combine robust strength with flexibility, and are pleasant to handle during preparation and assembly. The solutions are fire tested without the need for the transverse joints to be sewn or hooked, making them easier to install with full compliance with fire protection regulations.



**PAROC® VECT WIRED MAT BLACKCOAT
IS AVAILABLE IN:**



EI 30

30 minutes fire resistance solution for circular and rectangular HVAC ducts



EI 60

60 minutes fire resistance solution for circular HVAC ducts

KEY BENEFITS

- Up to 10 % faster installation of insulation mats* without the need to clamp or sew the transversal joints.
- Effective fire protection for 1.8 m suspension distance on circular channels.
- EI30 is compatible with circular and rectangular ducts, EI30 is aesthetically pleasing with uniform insulation thickness for both duct types, suitable for open installations.
- Comfortable to handle and install

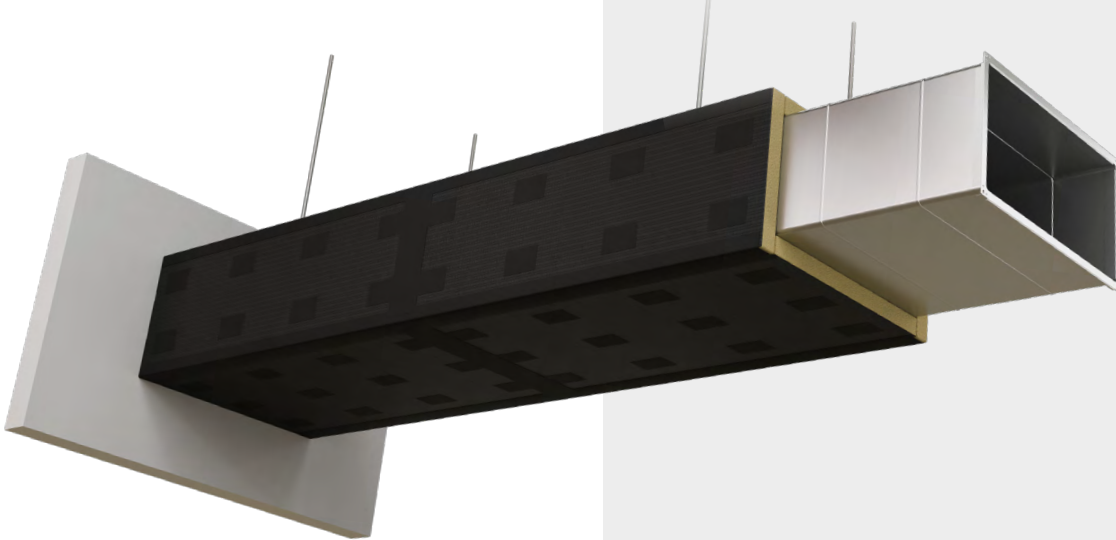
**In internal simulation tests, the installation of mat PAROC® Vect Wired Mat BlackCoat EI 30, depending on the mat width (900/600) and duct size – was 6-10% faster than competing products in the same category.*

PAROC® VECT SLAB BLACKCOAT

3-IN-1 SOLUTION FOR RECTANGULAR DUCTS IN ONE LAYER

PAROC® Vect Slab BlackCoat are HVAC duct fire protection slabs made from non-combustible PAROC® Stonewool, developed for rectangular ducts. The products are designed as a one-layer 3-in-1 insulation system combining passive fire protection, condensation risk reduction, and thermal insulation.

The Vect Slab format is designed for rectangular HVAC ducts, which are commonly used in large and complex commercial buildings, such as shopping malls. The 1.2m slab length is easy to handle and support efficient installation, even on difficult-to-reach installation areas. The slabs are equipped with a BlackCoat facing that acts as a water vapour-resistant barrier. Together with correctly taped joints using PAROC® BlackCoat Tape, this helps reduce water vapour permeability and reduces the risk of condensation.



PAROC® VECT SLAB BLACKCOAT IS AVAILABLE IN:



EI 30
30 minutes fire resistance solution



EI 60
60 minutes fire resistance solution

KEY BENEFITS

- 3-in-1 solution with integrated fire protection and condensation risk reduction for rectangular ducts, tested according to EN 1366-1
- Full coverage with a discreet finish using the BlackCoat surface and PAROC® BlackCoat tape
- Comfortable and easy handling: easy to cut, optimal stiffness and flexibility for difficult-to-reach areas
- Optimised packaging for efficient and robust handling on site

COMPLETE AND VERIFIED FIRE PERFORMANCE WITH SYSTEM APPROVED PENETRATION SEALING

Fire performance is achieved through a tested and complete system approach, tested according to EN 1366-1 and classified in accordance with EN 13501-3 in independent third party laboratories. By using system approved components throughout the installation, the declared fire performance of the ventilation system can be maintained and verified as intended.



PAROC® FIRESEAL
system approved penetration sealing



PAROC® BLACKCOAT TAPE
sealing of joints and details



PAROC® GALVANIZED WIRE
for securing and binding mats



PAROC® BLACK WIRE
for securing and binding mats



PAROC® FIRE SPRINGS
fixation of slab joints and corners

FIRE SAFETY AND CONDENSATION PREVENTION IN A WOODEN DAYCARE PROJECT

When Solvik Daycare in Hämeenlinna, Finland, needed advanced condensation and fire protection for its all-wooden structure, contractors discovered that PAROC® Vect HVAC 3-in-1 duct insulation system redefined installation efficiency, improved onsite ergonomics, and ensured long-term fire-rated performance.



Watch reference
case video



In the Solvik daycare project, fire safety and indoor comfort were key design priorities. The wooden structure required carefully designed HVAC solutions that could support both passive fire protection and condensation control.

PAROC® Stonewool insulation was used to help protect HVAC ventilation ducts while also supporting long-term building performance in a modern timber building. This real-life example shows how carefully designed HVAC insulation solutions help support safer buildings and reliable system performance.

Scan the QR code above to watch the video today!



Pakarinen's crew tackled the most challenging space in the building—a wooden beam attic where summer temperatures soared. Even under these brutal conditions, PAROC® Vect Mat BlackCoat EI60 delivered.

"We installed 364 square meters in the attic, and it was like cutting butter," he explains.

“

WOODEN CONSTRUCTION REQUIRES NEW WAYS OF THINKING ABOUT FIRE SAFETY. WITH THE RIGHT INSULATION SOLUTIONS FOR THE VENTILATION SYSTEM, WE COULD COMBINE INNOVATIVE BUILDING DESIGN WITH RELIABLE FIRE PROTECTION.

”

**VILLE PAKARINEN
CEO, INSULATION CONTRACTOR ERISTE WILLE**

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PAROC® stands for energy-efficient and fire resilient insulation solutions of stone wool for new and renovated buildings, HVAC and industrial applications. Behind the products, there is nearly 90-year history of stone wool production and know-how backed by technical expertise and innovation.

Going under the product name PAROC® and in the instantly recognizable red-and-white-striped packages, our products include building insulations for thermal, fire and sound insulation of exterior walls, roofs, intermediate floors and partitions as well as technical insulations for HVAC systems, industrial processes and OEM industry.

Discover the full PAROC® Vect range and learn more about HVAC passive fire protection solutions at www.paroc.com/vect

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