

INSTALLATION GUIDE

PAROC® PRO MAT WR 350 ALUCOAT
PAROC® PRO MAT WR 640 ALUCOAT
PAROC® PRO MAT WR 660 ALUCOAT



* Named in the brochure as mat
* Product available without additional [water repellent](#) protection



PAROC®

PAROC® PRO MAT WR ALUCOAT

Non-combustible stone wool mat with AluCoat facing and outstanding water repellency designed for industrial applications. The PAROC® Pro Mat WR AluCoat is for thermal insulation purposes when insulating flat or irregularly shaped equipment.

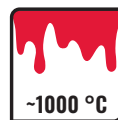


Data sheets



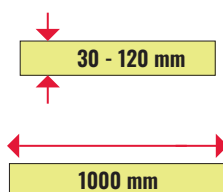
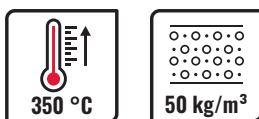
APPLICATION

- Thermal insulation of flat or irregularly shaped equipment
- For thermal insulation purposes when insulating flat or irregularly shaped equipment



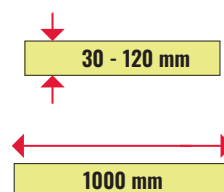
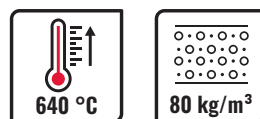
PAROC® PRO MAT WR 350 ALUCOAT TECHNICAL SPECIFICATIONS

- AGI designation code: 10.06.99.99.50
- CE designation code:
MW-EN 14303-T2-ST(+)-350-WS1-MV2-CL10



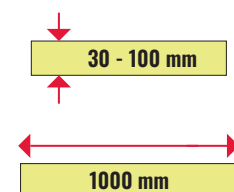
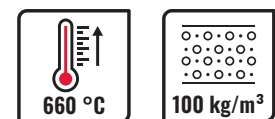
PAROC® PRO MAT WR 640 ALUCOAT TECHNICAL SPECIFICATIONS

- AGI designation code: 10.06.99.99.80
- CE designation code:
MW-EN 14303-T2-ST(+)-640-WS1-MV2-CL10



PAROC® PRO MAT WR 660 ALUCOAT TECHNICAL SPECIFICATIONS

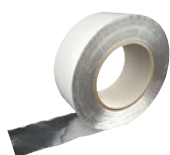
- AGI designation code: 10.06.99.99.10
- CE designation code:
MW-EN 14303-T2-ST(+)-660-WS1-MV2-CL10



ACCESSORIES



Data sheets



PAROC® ALU TAPE
Aluminum film tape with a strong adherent, strongly crosslinked polyacrylate adhesive with high ageing resistance and good shear strength.



PAROC® HVAC ALUCOAT TAPE
Reinforced aluminum foil tape with pressure sensitive, low temperature acrylic adhesive, siliconized release paper liner and AluCoat printing.



PAROC® HVAC ALU TAPE
Reinforced aluminum foil tape with low temperature acrylic adhesive, siliconized release paper liner and AluCoat printing.



PAROC® HVAC DOTS
Round pre-assembled tapes for covering welding pins



PAROC® PRO KNIVES
Particularly suitable for cutting Paroc products



PAROC® HEAD PIN INSULATED
Welding pin insulated with galvanized plate

INSTALLATION INSTRUCTIONS



STEP 1

Cut the mat with a knife (e. g. PAROC® Pro Knife) to the appropriate length equal to the external circumference of the insulated duct:

- for **circular ducts**:
 $\pi \times [D + 2 \times \text{insulation thickness}]$
- for **rectangular ducts**:
 $[2 \times \text{length side A}] + [2 \times \text{length side B}] + 8 \times \text{thickness insulation plus add about 2-3 cm.}$

STEP 2

Place the mat on the **circular duct** with the AluCoat aluminium foil on the outside so that its ends hang loosely.

STEP 2A

Press both ends of the mat to the surface of the duct and connect them with PAROC® AluCoat Tape or PAROC® Alu Tape.

STEP 3

Apply welding pins (PAROC® Head Pins Insulated) on the surface of the **rectangular duct** (8-10 pieces per 1 m²), then place the mat on the pins and secure it against slipping with self-locking clips. Cut the ends of the pins above the cap.

STEP 3A

For rectangular ducts, the insulation should touch the frames connecting the individual duct elements. The joints, insulated this way on both sides and clean, should be fixed along the perimeter with self-adhesive PAROC® AluCoat Tape or PAROC® Alu Tape. Tape overlapping is recommended.

STEP 4

In case of tension or compression on the AluCoat Aluminium foil and for insulation of ducts bigger than 200 mm diameter, it is absolutely necessary to add metal bands, ensuring that they are not too tight and will not cut or damage the facing.

Notes:

- The thickness of the insulation should be designed appropriately according to the operating parameters of the installation and the conditions in the room, otherwise the joints may be damaged.
- PAROC® Pro Mat WR AluCoat can be used for all types of indoor installations appropriately to maximum service temperature.
 - When insulating outdoor installations, additional protection is needed.
- When high insulation thickness is required, PAROC® Pro Mat (WR) AluCoat can be installed in two layers, placing the joints of mat fragments away from each other to prevent thermal bridges.
- Do not walk on the previously made insulation during the installation process, as this may cause damage to it.
- Dry and clean the AluCoat surfaces well by wiping the aluminum side with isopropanol before fixing them on the mat ends in order to obtain a good quality of the joints. The self-adhesive tape should be firmly pressed with the help of a spatula.
- Head Pins must be insulated.

STEP 5

Next, add the mat to the duct, following the instructions given in steps 1-4.

STEP 7

The ends of insulation should be covered by a cuff, adjusted to the thickness of the mat.

STEP 6

Clean the surface and connect the joints using PAROC® AluCoat Tape or PAROC® Alu Tape.

STEP 8

Before installing the mat, cut out holes for all kinds of elements on the duct, such as fittings, valves, tees, and fasteners etc.

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Applications: March 2025

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