



# INSTALLATION GUIDE

PAROC® HVAC MAT ALUCOAT



**PAROC®**

# INSTALLATION INSTRUCTIONS FOR CIRCULAR AND RECTANGULAR VENTILATION WITH PAROC® HVAC MAT ALUCOAT



## INSTALLATION INSTRUCTIONS FOR CIRCULAR DUCT

### ► 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 circular duct:  
 $\pi \times [D + 2 \times \text{insulation thickness}]$

### ► STEP 2

It is recommended before installing the mat to cut out holes for all kinds of elements on the duct, such as fittings, valves, tees, fasteners, etc.

### ► STEP 3

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

### ► STEP 4

Press both ends of the mat to the surface of the duct and connect them with PAROC® Hvac AluCoat Tape or PAROC® AluCoat Tape. It is recommended to put tape on the overlap for better insulation.

### ► STEP 5

In case of tension or compression on the AluCoat Aluminium foil and for insulation of ducts bigger than 200 mm diameter, it is needed to add wire (~3 times per running meter wire min 0,7mm) or tape or metal bands, taking care that they are not too tight and will not cut or damage the facing.

### ► STEP 6

Add next mat to the duct, following the instructions given in with points 1-5.

### ► STEP 7

Connect the joints using PAROC® Hvac AluCoat Tape or PAROC® AluCoat Tape. Taping of joints shall not replace use of wire or tape locks or bands that are used to secure installation.

### ► STEP 8

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



## INSTALLATION INSTRUCTIONS FOR RECTANGULAR DUCT

### ► 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 rectangular duct:  
 $2 \times \text{length side A} + [2 \times \text{length side B}] + 8 \times \text{thickness insulation}$  plus add about 2-3 cm.

### ► STEP 2

It is recommended before installing the mat, to cut out holes for all kinds of elements on the duct, such as fittings, valves, tees, fasteners, etc

### ► STEP 3

If PAROC® HvacMat AluCoat is used on large rectangular ducts, it should also be secured additionally with welding pins. Depending on the size of the duct and the thickness of the insulation, 8–10 welding pins per m<sup>2</sup> may be needed. Joint sealing must be applied over the welding pins.

### ► STEP 4

The insulation should touch the frames connecting the individual duct elements. The joints, insulated on both sides in this

way, should be fixed along the perimeter with self-adhesive PAROC® Hvac AluCoat Tape or PAROC® AluCoat Tape. It is recommended to put tape on the overlap for better insulation.

### ► STEP 5

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

### ► STEP 6

Add next mat to the duct, following the instructions given in with points 1-5.

### ► STEP 7

Connect the joints using PAROC® Hvac AluCoat Tape or PAROC® AluCoat Tape and also pin or pin holes must be taped. Taping of joints shall not replace use of wire or tape locks or bands that are used to secure installation.

### ► STEP 8

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



## 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 taped joints may be damaged.
- PAROC® Hvac Mat AluCoat can be used for all types of indoor installations, provided that the maximum operating temperature does not exceed 250 °C.
- When high insulation thickness is required, PAROC® Hvac Mat AluCoat can be installed in two layers, placing the joints of mat fragments away each other to prevent thermal bridges.
- Walking on the previously made insulation during the installation process is prohibited, as this may cause damage to it.
- When insulating outdoor installations, additional protection is needed.
- The surfaces that will be taped need to be dry and clean in order to obtain a good quality of the joints. The self-adhesive tape should be firmly pressed with the help of a spatula.
- For penetrations, continuous insulation is recommended. For penetrations separating or connecting fire compartments, see separate document for the selected fire protection solution.





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