



INSTALLATION GUIDE

PAROC® HVAC LAMELLA MAT ALUCOAT



PAROC®

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



INSTALLATION INSTRUCTIONS FOR CIRCULAR DUCT

▶ STEP 1

Cut the lamella mat with a 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

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

▶ STEP 3

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

▶ STEP 4

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

▶ STEP 5

Add next lamella to the duct, following the instructions given in with points 1-4.

▶ STEP 6

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 7

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

▶ STEP 8

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



INSTALLATION INSTRUCTIONS FOR RECTANGULAR DUCT

▶ STEP 1

Cut the lamella mat with a knife to the appropriate length equal to the external circumference of the insulated rectangular duct:

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

▶ STEP 2

If PAROC® Hvac Lamella Mat 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 m² may be needed. Joint sealing must be applied over the welding pins.

▶ STEP 3

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.

▶ STEP 4

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

▶ STEP 5

Add next lamella to the duct, following the instructions given in with points 1-4.

▶ STEP 6

Connect the joints using PAROC® Hvac AluCoat Tape or PAROC Hvac Alu 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 7

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

▶ STEP 8

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

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 Lamella 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 Lamella 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.
- When pins are used, these must be insulated.
- For penetrations, continuous insulation is recommended. For penetrations separating or connecting fire compartments, see separate document for the selected fire protection solution.





The information relating to the products and systems contained in this communication ("Information") is accurate and reliable to the best of our knowledge as of its date issued and is subject to change without prior notice. No guarantee of accuracy is given or implied.

Since Paroc has no control over installation workmanship, accessory materials or conditions of application, no express or implied warranty of any kind, including those of merchantability or fitness for a particular purpose or course of performance or usage of trade, is made as to the performance of an installation containing Paroc products.

While the Information in this communication may relate to the technical application of certain Paroc products, it is in no event to be considered as technical advice on the basis of which Paroc may incur any liability.

User is solely responsible for determining whether a Paroc product is fit for a particular purpose and suitable for user's method of use or application.

Users of the provided Information assume full responsibility for all concept/design decisions made relating to the suitability of use.

Users must rely on their own judgment or that of a concept/design professional when determining how to best apply the data provided.

Users agree that Paroc is under no obligation to provide additional details, testing or test data on its behalf.

Liability of Paroc, if any, is strictly limited to replacement of product. In no event shall Paroc be liable for any other damages arising because of product failure, whether incidental, special, consequential or punitive, regardless of the theory of liability upon which any such damages are claimed.

