

Installation Guidelines – Rebotherm Aero

Surface Preparation

The substrate must be dry, stable, level, dust-free, and free of cracks. Loose, non-load-bearing, or flaking plaster layers as well as old coverings (such as wallpaper or adhesive residues) must be completely removed. Any uneven areas or damaged sections of the surface must be repaired beforehand.

Any existing mold contamination on the exterior wall to be insulated must be professionally and permanently removed before installation.

Installation

Quick, clean, and simple installation using adhesive bonding methods. The material can be processed with standard tools such as utility knives, scissors, or jigsaws.

Cladding and surface finishing can be carried out using common materials such as gypsum plasterboards, Rotband plaster systems, or similar products.

Safety Instructions

When cutting the aerogel insulation material, dust masks, protective gloves, and safety goggles must be worn. Dust generated during cutting should be removed directly using suitable extraction equipment such as a vacuum cleaner. General workplace hygiene regulations must always be observed.

Preparation Before Installation

An on-site inspection of the building is essential for a proper assessment of the structure and wall condition. Cross-trade planning topics such as structural requirements, electrical installations, pipe insulation, and related works must be clarified during the planning stage.

Window reveals, connecting ceilings, radiator niches, and adjoining interior walls must be considered during planning and execution. The exterior façade and all connection areas (windows, doors, ventilation openings, etc.) must provide sufficient protection against driving rain, and any leaks in these areas must be repaired.

The wall to be insulated must be free from rising damp. If necessary, a building-physics analysis should be carried out to determine the exact wall construction and moisture behavior.

Air circulation behind the internal insulation system must be prevented. The insulation material must be installed fully bonded to the wall surface. Connections to adjacent building components must be sealed with suitable elastic materials. The airtightness of the complete construction must be ensured. All joints and connections around openings such as windows, doors, and window sills must be carefully sealed.

Bonding of the Insulation Boards

Material

Use a mineral-based adhesive such as tile adhesive or similar products.

Apply the adhesive over the entire surface and firmly press the insulation board against the wall.

Before plastering, the aerogel insulation boards must be mechanically fixed using at least five insulation anchors (disc dowels) per board or mat:

- one at each corner
- one in the center

The exact number of anchors may vary depending on project-specific requirements.

Plastering / Skim Coating

Embed reinforcing mesh into the base coat and finish the surface with standard mineral plasters or skim coats.

Rebotherm Energy UG

Ballindamm 3

20095 Hamburg – Germany

Phone: +49 1590 3539466