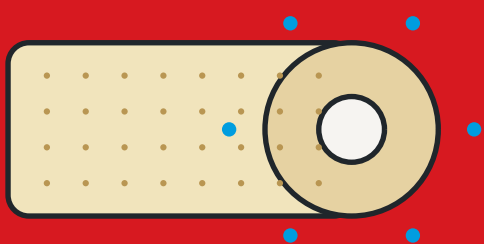


Rebotherm Aero

Aerogel insulation mat
for slim insulation systems

Thin and flexible
**CLEAN
INSTALLATION**



PROCESSING INSTRUCTIONS

Proper installation of Aerogel

Planning, bonding and mineral surface finish

- 01 Inspect the structure and sources of moisture before starting.
- 02 Prepare the substrate sound, level, clean and dry.
- 03 Bond Aerogel over the full surface without voids.
- 04 Butt mats tightly and prevent air circulation behind them.
- 05 Mechanically secure with insulation fixings before plastering.
- 06 Embed reinforcing mesh and apply a mineral finish.

ESSENTIAL

Full-surface contact with the wall

Avoid spot bonding and air channels behind the internal insulation.



1 Assess the project

Before work begins, inspect the wall on site. The wall construction, condition of the materials and all sources of moisture must be known. Coordinate structural issues, electrical installations and pipe insulation during planning. Include reveals, adjoining ceilings and internal walls, as well as radiator recesses, in the insulation concept.



2 Moisture and junctions

The facade and all junctions at windows, doors, sills and ventilation openings must provide permanent protection against driving rain. Repair leaks before insulating. The wall must be free from rising or penetrating damp. For unclear constructions or critical components, obtain a building-physics or hygrothermal assessment. Ensure the complete build-up is airtight.

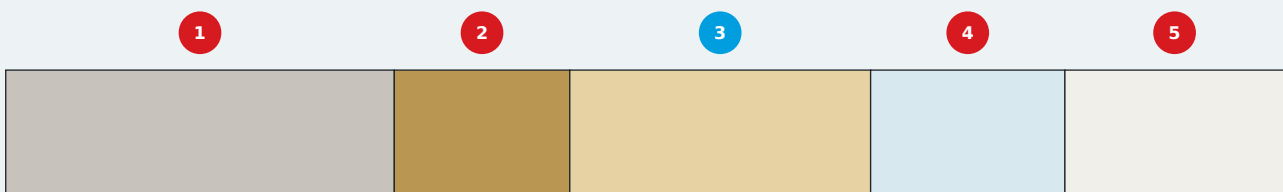


3 Prepare the substrate

The substrate must be dry, sound, level, clean, dust-free and load-bearing. Remove loose or flaking plaster and paint, wallpaper and adhesive residues. Repair open cracks, defects and uneven areas correctly. Mould and its source of moisture must be permanently remedied before work starts. Check suction and adhesion; use only a primer compatible with the substrate and adhesive.

TYPICAL INTERNAL WALL BUILD-UP

Schematic only - project-specific design and system approvals take precedence.



1 Existing wall

2 Mineral adhesive - full-surface

3 Rebotherm Aero aerogel insulation mat

4 Reinforcement coat with mesh

5 Mineral top coat / finish

Important: The insulation must be fully supported without air channels.

Installation and surface finish

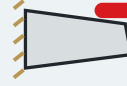
3

Cut safely, bond over the full surface and reinforce permanently



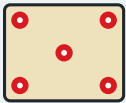
4 Cut safely

When cutting, wear a suitable dust mask, safety glasses and protective gloves as specified in the safety data sheet. Extract dust directly at the source wherever possible and do not sweep it dry. Keep the workplace clean. Cut with a utility knife, scissors or jigsaw; select the tool to suit the material thickness.



5 Full-surface bonding

Use only a mineral adhesive compatible with the substrate and Aerogel system, for example a suitable flexible tile adhesive. Apply evenly over the full surface in accordance with the manufacturer's instructions. Position, align and press the mat firmly over its entire area. Avoid spot bonding, voids and air circulation behind the insulation. Butt joints tightly.



6 Mechanical fixing

For a plastered finish, also secure the aerogel mats mechanically. Guide value: at least five suitable disc fixings per mat - four near the corners and one in the centre. Select fixing type, anchorage depth and quantity for the substrate, format, loads and system build-up. Set fixings flush without over-compressing the insulation.



7 Reinforce and plaster

Apply a system-compatible mineral reinforcement coat. Embed alkali-resistant reinforcing mesh without wrinkles, overlap sheets sufficiently and cover the mesh completely. After the specified drying time, apply and smooth the mineral plaster. Form junctions to adjoining components with elastic, airtight materials. Use vapour-open, system-compatible finishes.

FINAL CHECK

- ✓ Insulation is fully bonded without voids.
- ✓ Joints and edges are closed and airtight.
- ✓ Fixings are correctly positioned and specified.
- ✓ Mesh is wrinkle-free and fully embedded.
- ✓ Drying times and product instructions were observed.

Note: This document provides general processing guidance. Project conditions and system components may differ. Product and safety data sheets, the manufacturers' instructions for adhesives, fixings and plasters, and all applicable technical rules take precedence.