Energy-saving renovation of an apartment building
Scope of work:
Some 320 m² of CALOSTAT® were installed in a thickness of 100 mm in the parapet area of balconies, in the attics, and in the lintels behind the outer blinds.

Energy standard:
Low-energy building according to the Minergie standard.

Special features:
In order to minimize on-site cutting, the sheets were custom-cut at the factory and delivered to the site in the dimensions 1000 mm x 300 mm.

Short description:
The installation of the high-performance insulation material CALOSTAT® in the facade contributed to the energy balance of this 16-story apartment building with 50 parties, located in Muri in the Swiss canton of Bern.
**Project description:**

**Energy-saving renovation of an apartment building**

Easy, safe and clean installation

This apartment building, certified according to the Minergie standard, is located in the tranquil town of Muri in the Swiss canton of Bern. Minergie is a registered trademark of sustainable construction owned by the Minergie Association with head offices in Bern and represents the highest energy standard in Switzerland for low-energy buildings.

The use of the high-performance insulating material CALOSTAT® in the building’s facade contributes to its energy balance. In some parts of the building there is a demand for high performance insulation materials. Using CALOSTAT®, which has a much better thermal performance than other non-combustible materials, the thickness of the insulation layer can be significantly reduced. This is especially the case in balcony areas and roller shutter cabinets.

Prior to delivery at the construction site, the sheets were custom-cut in accordance with the installation width of 1000 mm x 300 mm. Due to the different lintel and sill length of the windows, the elements were trimmed to size again during the installation on site. The sheets were secured to the substrate with dowels and then covered with sheet metal.

CALOSTAT® was installed in the areas of the lintels (external blinds) and in the parapet areas of balconies, in each case using two layers with a thickness of 50 mm.

High-performance insulating sheets made of CALOSTAT® have a compressive strength of > 90 kPa and do not contain any fungicides, algicides or pesticides. The sheets are not only completely harmless, but are also easy to cut to size on site without affecting the quality of abutting joints. CALOSTAT® is safe and easy to handle for installers.

The purely mineral raw material also ensures excellent product properties: CALOSTAT® is a Class A (non-combustible) building material, is neutral in reaction to other composite materials, and contains no fogging-enhancing ingredients. In contrast to most fossil insulating materials, the sheets are fully recyclable.

All of this not only makes CALOSTAT® an excellent thermal insulation, but also contributes to the comfort of the tenants and enables a high standard of healthy living.
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