Technical Information for the Construction Industry #4

RÖBEN BRICK SLIPS FOR THE ENERGY-EFFICIENT RENOVATION AND VISUAL ENHANCEMENT OF BUILDINGS

Röben

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Plaster or brick facades can be upgraded both visually and energetically in the course of renovation. By using a composite thermal insulation system with ceramic cladding made of genuine brick slips, the building not only receives contemporary insulation that significantly reduces energy consumption. It also gains a fresh, modern appearance. Due to the structural properties of bricks, only in a 14 mm thin version, Röben brick slips are an ideal solution for this. ETICS systems can usually be applied to the existing facade as a self-supporting system. A separate foundation is therefore not necessary.

Brick slips – perfect for renovation and construction in existing buildings

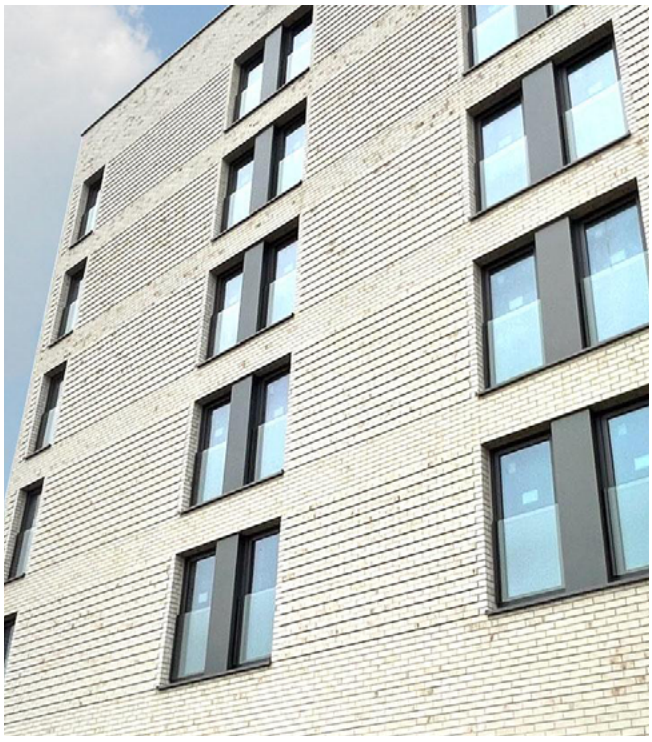
In renovation projects, brick slips prove to be a smart solution for upgrading existing buildings in terms of energy efficiency and appearance, and preparing them for the future. In our project in Reinheim, Hesse, city officials and the Cologne-based firm gernot schulz : architektur show how a aging flat-roof building from the 1970s can be modernized visually, energetically, and spatially with targeted interventions. Brick slips: AARHUS white-gray, DF. Click here to go directly to the project.

Living masonry made from Röben ceramic brick slips.

Since the slim cross-sections of brick slip facades require only a small amount of space, they allow the existing facade appearance to be retained as far as possible during renovation, even on window reveals. Nevertheless, they offer all the advantages of solid clinker brickwork and form a weather-resistant, virtually maintenance-free, fire-safe, and sustainable building envelope.

Successful renovation: above, the town hall before renovation; below, after renovation.

Angled brick slips on the corners of buildings create the impression of conventional masonry.



With brick slip facades, the effect of relief masonry can be achieved with brick slips of varying thicknesses without having to choose insulation material of varying thicknesses.

The wide range of colors, shapes, and surfaces available for Röben brick slips allows you to create unique, high-quality facades. Combining different types of brick slips, unusual laying patterns, and accents in the masonry also opens up a huge range of visual design options.

Vertical installation without horizontal joints: This creates the impression of vertical rows of stones arranged in parallel lines, as in a grid pattern.

All straps come with matching corner brackets and runner brackets.

Old meets new: renovation in harmony with the existing architecture

In view of the current construction cost situation, the renovation of existing buildings is once again becoming a major focus. On the one hand, this often involves energy-efficient renovations, but on the other hand, it also involves extensions or additions to entire buildings. In order not to overload the existing structure, lightweight construction methods are often used, such as timber frame construction in combination with brick slips on ETICS. By choosing brick slips that match the surrounding existing buildings, old and new merge to create a harmonious overall appearance.
Even monument protection requirements for the appearance can be met during renovation with suitable brick slips.

The historic industrial building was completely renovated and extended. Two different types of brick slips were deliberately used here to make the extension clearly visible.

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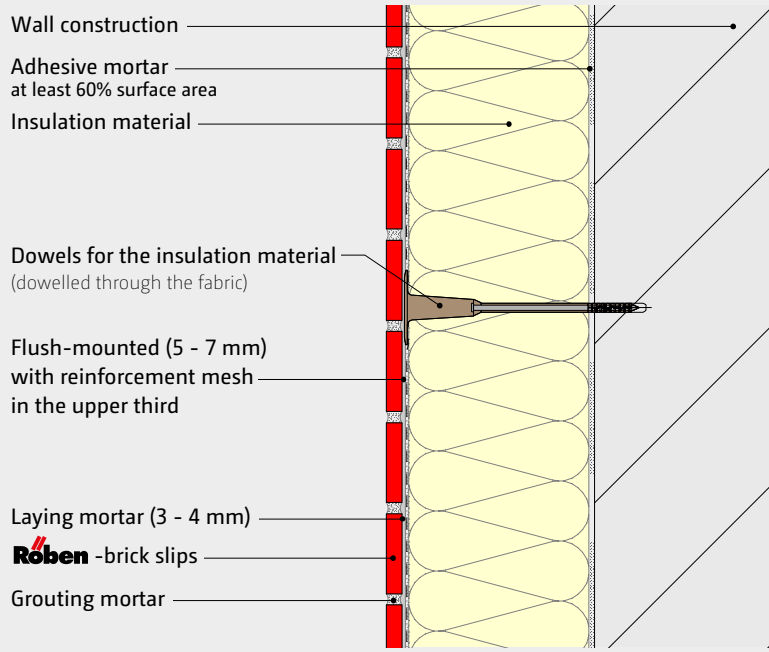
Brick slips – perfect protection for ETICS systems and visible added value

Röben brick slips can be used on double-shell masonry, monolithic masonry, timber studwork, or (ETICS) plaster facades, provided they are suitable. In renovation projects of this kind, it is particularly important to carefully match the materials used to the existing substrate and to professionally assess stability and load-bearing capacity. Only when all components are well coordinated and system-compliant products are used can a safe, energy-efficient, and durable solution be created. This means that the facade structure, insulation, adhesive, and ceramic cladding must be optimally coordinated to form a functional unit. This not only ensures technical quality but also guarantees a permanently attractive architectural appearance.

In a composite thermal insulation system with brick slip cladding, the insulation boards are bonded directly to the existing wall structure. A reinforced base coat is applied to the insulation layer, which absorbs minor movements of the substrate and expansion stresses, thus forming the basis for the facing brick layer. In contrast to a plaster facade, with a ceramic cladding, the ETICS system is doweled directly through the fresh reinforcement layer.

☑ Cross-section of a WDV system



The brick slip cladding is installed in accordance with DIN 18 515-1. Care must be taken to ensure that all products relevant to approval are used in accordance with the system. The brick slips are always laid using the combined method in accordance with DIN EN 12 004.

This previously unremarkable little house was transformed into a gem with hand-molded brick slips on an ETICS. The brick slips are not only visually appealing, but also protect the sensitive insulation.