Technical Information
for the Construction Industry

RELIEF MASONRY WITH BRICK SLIPS ON ETIC SYSTEMS

Röben

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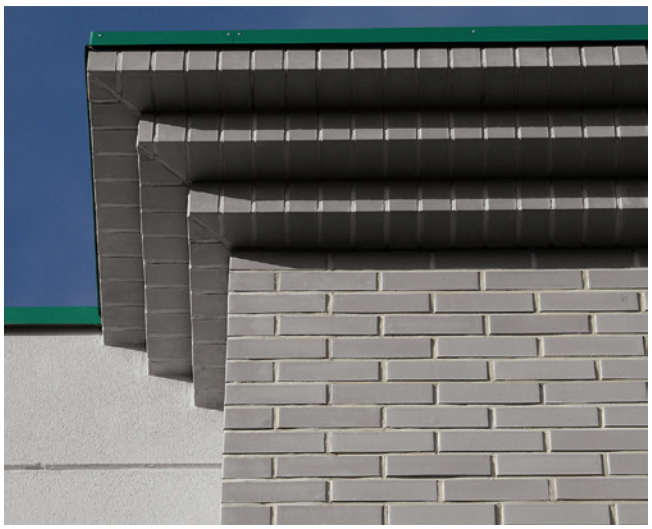
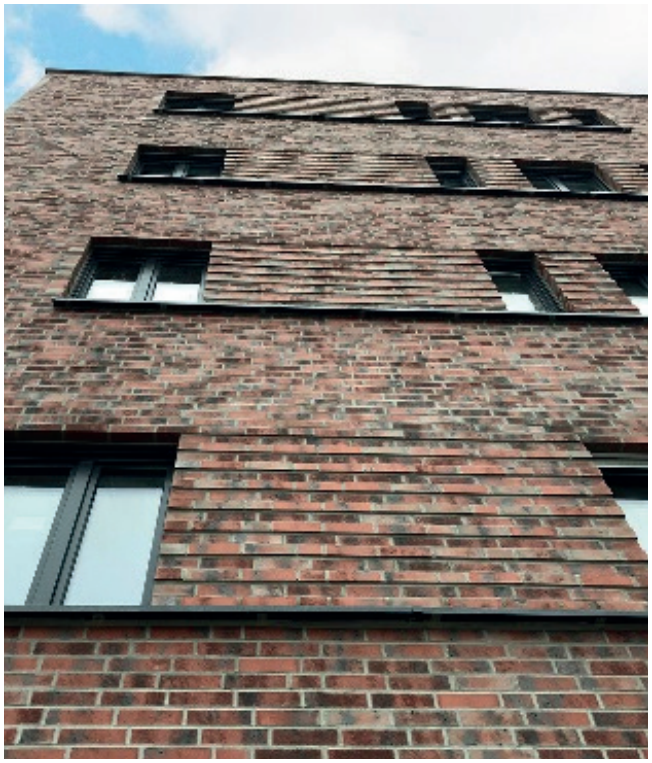
ETICS (External Thermal Insulation Composite Systems) with ceramic cladding are regulated in the general technical approvals/general construction technique approvals issued by the DIBt (German Institute for Construction Technology) for various manufacturers. This relief masonry is used in practice as a design element for facades and can be implemented in two different ways:

1. The insulation is applied in different thicknesses, while the thickness of Röben brick slips remains consistent. In this case, the required approval criteria are generally met.



2. The insulation and reinforcement layer remain consistently thick, and the brick slips are applied in different thicknesses (14 mm / 25 mm). A detailed examination is required in this case.

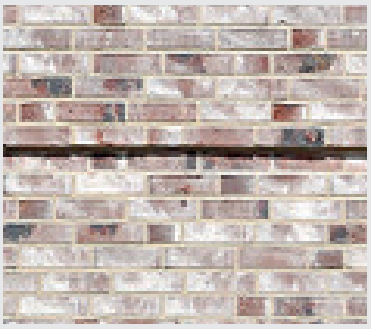


For this relief facade, the Röben product range offers numerous different thicknesses: 14 mm, 18 mm, and 25 mm, depending on the desired design or relief to be created.

Additional thicknesses can be customized on a project-specific basis. A closer examination of compliance with the individual approvals is required here. As a rule, ceramic claddings up to a thickness of 0.015 m are anchored in the general construction technique approvals. This is done with the goal of determining a specific surface weight. Based on our experience, brick slips with a thickness of 14 mm are most commonly used.

According to the processing scheme below, Röben brick slips can be used as an relief facade while maintaining consistent surface weights per square meter, in compliance with the relevant approval limit of 0.015 m:

☑ Processing scheme



DF 64 pcs./sqm
60 pcs. in 14 mm
4 pcs. bis 30 mm

NF 48 pcs./sqm
44 pcs. in 14 mm
4 pcs. in 25 mm

DF 64 pcs./sqm
56 pcs. in 14 mm
8 pcs. in 22 mm

NF 48 pcs./sqm
40 pcs. in 14 mm
8 pcs. in 20 mm

Other brick slip thicknesses are not considered to be a significant deviation from the approvals, but must be agreed in writing or documented in advance with all parties involved. In the meantime, however, approvals have also been granted that allow for brick slip thicknesses of up to 30 mm.

☑ Additional Recommendation:

Special care must be taken during jointing, as water could accumulate around the protruding brick slips. The joint mortar suitable for brick slips must be applied in accordance with the standards and manufacturer's instructions. To ensure proper drainage of rainwater, appropriate joint formation is required.

If special measures are to be taken to prevent water infiltration behind the ceramic cladding, more adhesive mortar must be applied than usual. Immediately after laying the brick slips smooth the mortar that oozes out from the sides using a jointing tool held at a slight angle. This presses the mortar diagonally against the laying surfaces between the slips, sealing any potential cavities. This method is recommended for creating reliefs with brick slips of varying thicknesses for the protruding stretcher course.