

Tender text

blaugelb FLK Sealing System

Construction project: _____

Architect/client: _____

Optimised sealing system to be offered:
blaugelb FLK Sealing System – or equivalent

Preliminary notes

Processing is performed with the product system from Meesenburg GmbH & Co KG, Westerallee 162, D-24941 Flensburg.

Compliance with all valid guidelines is taken into account or prescribed for the respective recommended system designs with the products from the blaugelb FLK Sealing System.

Sealing within the blaugelb FLK Sealing System is covered by ETA – 22/0289 from 22/04/2022.

Sealing of the construction element plinth connection for the permissible threshold height of ≤ 0.02 m has not yet been clearly regulated by standards with regard to the design and load: (see DIN 18531-1 6.8 “Door connections”) “Barrier-free, level transitions or transitions with a permissible threshold height of ≤ 0.02 m **are special constructions with regard to sealing**. They require a design type tailored to the specific case. For these level transitions, it must be taken into account that the sealing alone cannot ensure the function of the impermeability at the door connection. Using planning specifications, the penetration of water and the ingress of water behind the sealing must be prevented.”

“Doors must be designed so that **the sealing can be performed behind roller shutter rails and cover strips**. Drainage openings in door frames, of weather bars or similar must drain toward the outside of the connection. The sealing connection of sheets is to be secured against slipping accordingly at the door frame.”

The blaugelb FLK Sealing System and its conformity with the requirements under the building code for materials and execution have been examined by the Braunschweig Civil Engineering Materials Testing Institute and confirmed with expert report no. 1203/540/22.

Professional application of the blaugelb FLK Sealing System (utility model protection) forms a tested solution that is certifiable by the building inspectorate and is an integrated system.

General: Technical requirement

The assembly of the construction elements incl. the structural connection is to be planned and executed in accordance with the acknowledged technical standards and the current Guideline for Planning and Implementation of Installation of Windows and External Pedestrian Doors.

All effects of the indoor and outdoor climate on the building, all forces exerted by the construction elements themselves and the typical structural movements must be taken into account.



blaugelb FLK Sealing System specifications:

- The blaugelb FLK Sealing System is protected by a utility model
- Complies with the requirements in accordance with DIN 18531-1 (6.8 Door connections)
- Horizontal sealing (on existing building waterproofing up to 50 mm or 120 mm in front of the reveal edge (in accordance with DIN 18531: Waterproofing of roofs, balconies and walkways & DIN 18533: Waterproofing of elements in contact with soil))
- blaugelb FLK Liquid is a one-component sealing product
- Direct application on the blaugelb Foil Outside SL¹⁰⁵⁰ Power One is tested in the two-layer technique
- The sealing product blaugelb Hybrid Polymer Crystal is a system component
- The window frame and threshold connection transition to the plinth thermal insulation profile is tested as waterproof to accumulated water
- When applying sand to the blaugelb FLK Liquid, reworking/processing is possible without additional measures, even with conventional adhesives for insulation and FLK systems
- Suitable for standard construction substrate
- Suitable for all frame materials of floor-level elements

The entire construction including the sealing system is to be protected against permanent damage, e.g. caused by mechanical effects as well as an increase of the material moisture, such as through unplanned ingress of moisture.

It must be possible to rework the complete sealing system in all connection areas through the external façade insulation/cladding to be subsequently attached. The permissible tolerances of the shell must be compensated.

The window connecting joints are to be designed watertight to driving rain; airtightness and the required water vapour diffusion must be ensured.

All sealing components must be compatible with the sealing material and any other adjacent building materials.

Sealing is performed in line with the processing instructions for the blaugelb FLK Sealing System.

As an integral part of the contract, the application area for the construction element plinth connection applies:

- System description and product information from the manufacturer
- DIN 18531 (Part 1 – 5) – Waterproofing of roofs, balconies and walkways
- DIN 18533 (Part 1 – 3) – Waterproofing of elements in contact with soil

in the respective version valid at the time that the contract is concluded, 22/08/2024.

