

Facade Solutions

Horizontal folding systems and flush gates



100% MADE IN GERMANY

 **BeluTec**
DOOR & FACADE SYSTEMS

Flush-designed folding shutters & doors

Perfect building structures - open and closed

- optimal sun and glare protection
- lifting shutters and kinking doors
- specially developed buckling and locking system
- wind and burglary protection ensures high functional reliability
- flush installation in the facade with individually realizable surface requirements



Skylabs, Heidelberg, covered with finely perforated sheet metal planking in 3D optics.

Fine perforation of the sheet metal ensures a pleasant room climate and optimal lighting conditions in strong sunlight.





BeluTec lifting systems can be used in a wide variety of functions. The almost unlimited possibilities in the planking of a single folding shutter are the main base for this. You have, for example, the option of using the horizontal folding shutters over the entire surface as a facade. This gives you a full-surface facade in the closed state and a window front in the opened state, which can be opened completely if necessary. Folding shutters pictured above, for example, have been planked with solarpanels that transform this rooftop house into a plus-energy housing unit. The folding shutters were created in cooperation with the TU Berlin and the University of the Arts in Berlin for the

Solar Decathlon Europe Competition. In total, BeluTec has produced and installed 14 flush-mounted folding shutters for this project.

In the project below in Tyrol several folding shutters, in different sizes, have been used. BeluTec supplied the frame-rung construction for the acceptance of an on-site planking. The folding shutters, as well as the rest of the facade, were planked on site with Corten steel.



Architectural house, Tirol, covered with Corten steel





Sentabad, Munich, 17 meters wide and weighs 2.5 tons



Flush horizontal folding doors & Duo doors

Ideal solution for large areas in confined spaces

- for folding doors, mounting is possible from the outside
- folding doors need no space inside
- perfectly suited for individual door openings or facade connections, which should be completely flush
- when opened, the folding shutter offers rain and sun protection
- also available as a DUO doortype with wicket door, driving inwards under the ceiling
- there are no limits for the surface selection for the planking





For the Sentabad in Munich, BeluTec worked closely with the architect, structural engineer and façade builder to install horizontally structured louvers on the bend gate and to insert them flush with the surface so that the desired uniform appearance of the façade could be continued without any gaps. Here, BeluTec not only took over the factory planning of the substructure and the fastening by the factory's own fitters, but also, together with the architect and the site management, the interface planning for the different trades of the door system and thus ensured a smooth construction process for other companies.



For the project, which is shown below on page 4, BeluTec supplied a total of seven DUO doortypes, three of them equipped with a wicket door. Like the rest of the façade, the seven 7030 x 4100 mm doors have been fitted with a fully transparent planking.

BeluTec supplied the aluminum frame sprout constructions for this project. Through the wicket door in the DUO doortype, the building can be entered quickly without having to open the gate completely. Alternatively, the entire door can be opened which makes it possible for vehicles to drive directly into the building.

The Korbach town hall below is a remarkable example of material- and resource-saving construction in the sense of an urban mining concept. The old low-rise building was selectively demolished and the mineral demolition material recycled close to the site to enable it to be returned to the material cycle. It was possible to reuse 61% of the mineral demolition material from the existing building for the new building. In order to be able to separate the material by type in the event of renewed renovation or deconstruction, adhesive sealants were largely dispensed with in the new building. The floor slab and exterior walls in contact with the ground are made of recyclable, water-impermeable concrete. Underneath the floor slab, foam glass ballast was used, which is generated 100% from waste glass. Among other things, recycled demolition materials from red roof tiles are used in the façade, giving the concrete a light reddish tint and integrating the new building attractively into the existing cityscape.



City hall, Korbach, DUO Door and side door covered with ventilation discs





Flush door for covering on-site

Sectional doors in different variations

For industrial- or private buildings

Sectional doors are suitable for both private and industrial buildings. Due to the different possibilities of the planking, these doors, as well as the lifting system, can be adapted to almost any facade.

Through flush mounting, these doors can also merge completely with the facade. Various installation variants of our sectional doors allow use with a small side space or fall.

Above is a side-sectional door shown, which stands out already by the side opening mechanism of other doors.

In the project, which is shown below, BeluTec supplied two approx. 8800 x 4100 mm sectional doors. Each door consists of an aluminum frame rung substructure. In total, 20 sandwich fillings in Torfarbe and the surface stucco were used in each gate.

The special feature of this project is the use of the multi-comfort drive, as well as the tilt fitting of the company BeluTec. This combination allows the ventilation function with the gate closed at the bottom, as well as a very small fall requirement.



Vodafone Campus, Düsseldorf, aluminum lattice frame construction with sandwich fillings



Lifting shutters for interiors

as a bar counter for canteens or similar

The interior is a special area of application for the BeluTec folding shutter. This type of folding shutter is ideal as a counter closure for example in multi-purpose rooms of schools. A room can be used as a cafeteria during break times, but the canteen disappears completely when the shutters are closed and the room can be used as a function room.

The flush mounting supports the uniform wall design, preventing a disturbing interruption. Each folding shutter can be wall-mounted.

As a special highlight:

The BeluTec folding shutter are available both as a horizontally foldable system and as a vertically foldable system. The design for your counter has no limits. A fold-out tray slide, as seen below, is no problem for our lift systems.





Private house, Tübingen, lattice frame construction covered with Alucobond



Private house Bissingen, lattice frame construction covered with aluminum composite



Horizontal folding door made of glass with ZIP



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