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BLUE WEST
GmbH

**Automatic Breakout
Door System (BWB)**

Access Solutions Consulting
& Sales Company

For impressive entrances
For high quality solutions
For many applications



Automatic Breakout Door System - BWB



General Description: Automatic Breakout Door System

If needed, the Blue West BWB automatic linear sliding door, including side panels, can be swung open by 90° in the direction of escape. If the door is closed, it can easily be moved towards the walls, creating an opening that loses only 50 mm (or 95 mm for 108 mm drive heights) of the clear height of passage (G), and 2 x 81 mm of the clear width of passage (F).

There are basically three drive unit heights to choose from: 108, 150 and 200 mm. The 108 mm version, however, is suitable for only limited BWB use, due to the forces sometimes required in emergency situations. We recommend the use of these drive units for BWB applications only after a thorough assessment of the application under consideration.

The BWB is fitted with a standard Blue West BWS drive module. Maximum door leaf weights are 2 x 100 kg, irrespective of the motor fitted. Higher weights cannot be fitted because of the limited swivel capacity of the pivot points. As a result, the maximum opening area for the bilateral sliding BWB is 2500 mm, also with a height of 2 500 mm. The maximum value of the clear width of passage (F), including side panels, is up to 5300 mm ($F = 2A + 300$ mm), allowing well over 95% of remaining space to be used as an effective escape route.

The installation has a frame of 30 mm aluminum profiles, and is fitted with 20 mm double glazing, as the BWB is normally used as an exterior door. Should it be required for indoor use, 10 mm single glazing can also be fitted, together with an additional adaptor profile. The door control is also a standard module from the Blue West BWB. The well-known BDE-D remote control unit, with backlit display and long-established menu navigation, is used and remains unchanged. Together with optional multi-point locking (MPV), the door system enjoys enhanced burglary protection as well as ease of use and convenience. Locking with MPV can be controlled with just one touch on the control display, while the locking process takes place in the standard model electronically and mechanically in two separate steps.

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With normal sliding doors, fixed side panels block up to two thirds of the passageway. With the Blue West BWB total opening system, however, this area remains fully accessible. The BWB is not only suitable for emergency situations, but also ideal for loading bulky items. Most common applications of the Blue West BWB are in vehicle salesrooms, shopping centres, department stores, furniture outlets, and buildings with high volumes of pedestrian traffic.

The Blue West BWB total opening system is a linear sliding door installation, featuring the ability of door leaves and side panels to be pivoted through 90°, irrespective of the position of the door. This feature is, of course, in addition to their regular, linear opening movement. This makes it optimally suited for use as an escape door. The pivoting leaves can be moved towards the wall to reach the total open position, allowing almost the entire width and height of the passageway to be used. With little constructional outlay, seemingly narrow pedestrian entrances can be turned into wide passageways in a very short time, allowing supply vehicles to pass through, or be used as a full access point for loading purposes.

Flush-fitted door leaf rails allow the floor area to remain clear of obstacles. To close the door again and return to normal sliding operation, just a few simple manipulations are required.

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Benefits

- If needed, width and height of passage remain almost 100 %.
- Reaching the total open position takes just seconds, and requires only a few simple manipulations.
- 100 % mechanical breakout function is available for emergency and rescue route applications.
- At the same time, unobtrusive sliding door operation is provided for pedestrian traffic.
- Normal operation using BDE-D remote.

Options

- MPV multi-point locking (not for drive heights of 108 mm).
- Continuous floor rail.
- Mechanical unlocking via Bowden cable inside/outside (HEI/HEA).
- Lead-acid rechargeable battery for emergency opening in the event of power failure (emergency mode is configurable).
- FEM Functionality Expansion Module for third-party applications.

Standard Equipment:

- Complete bilateral (2-leaf) door installation with side panels, swivels 90° in the direction of escape, 30mm profile system for 20 mm double glazing (10 mm single glazing with adaptor profile also possible).
- Surface coating.
- Basic accessories, BDE-D control unit with display, self calibrating, adapts to environment.

Key Data BWB

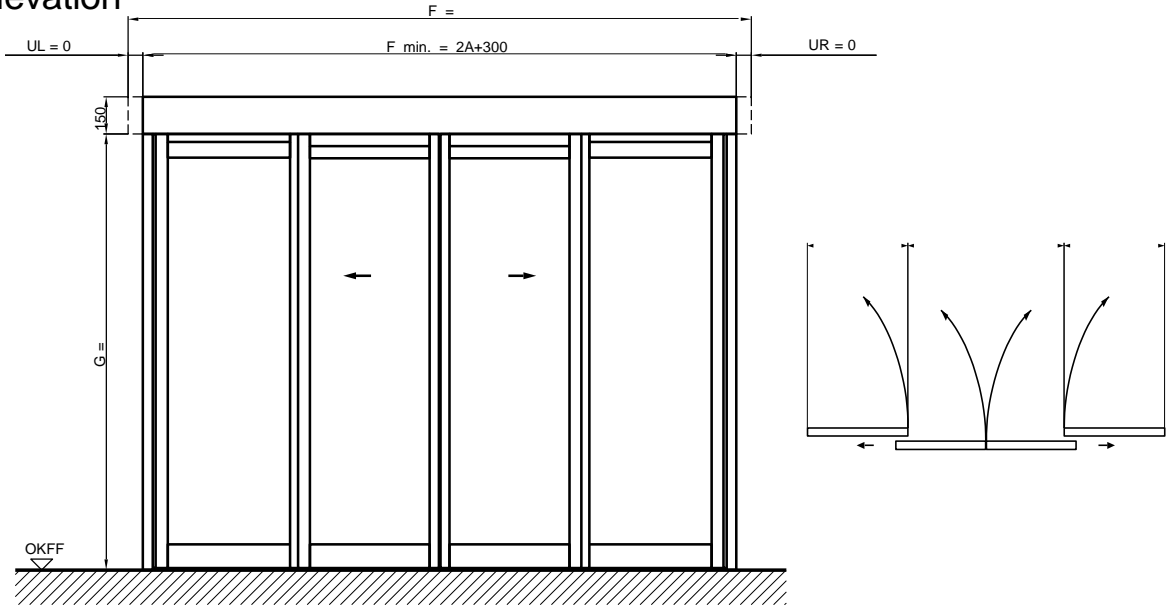
Door opening zone A:	800 – 2 500 mm
Headroom G: max	2 500 mm
Escape route height	G – 50 mm
Opening speed:	F –162 mm
Opening speed	up to 0.75 m / s
Door leaf weight:	max. 2 x 100 kg

TÜV approved

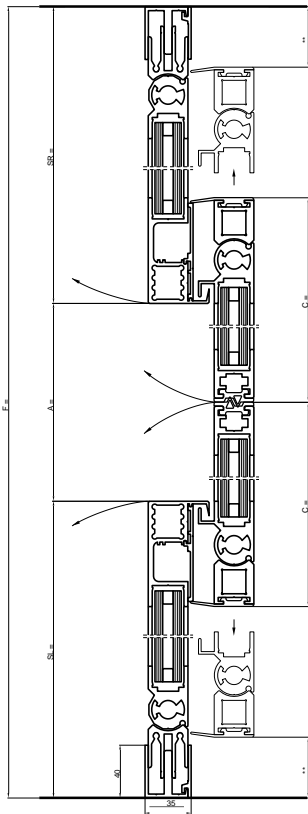
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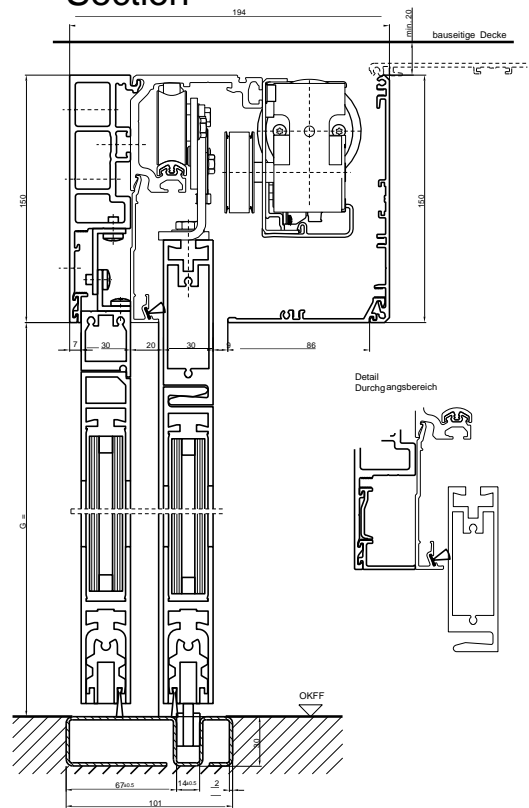
Elevation



Horizontal Section



Vertical Section



Automatic Breakout Door System

Specifications

Key Data BWB

Opening width	A 800 – 2 500 mm
Clear height of passage G max.	2 500 mm
Header length F	at least 2 A + 300 mm
Total height	G + 108 / 150 / 200 mm
Rescue route width	F – 162 mm
Rescue route height	G – 50 mm (– 95 mm for 108 mm drive heights)

Door leaf weights

BWB max.	2 x 100 kg
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Electrical Connection Data

Connection Data

Mains voltage	230 V AC, 50 / 60 Hz
Rated power	140 W
Maximum power consumption	330 W
Consumption in standby mode	15 W locked, 20 W on stand-by; including sensors, remote control and locking

Key Data

Temperature range	–15° to + 50° C
Humidity range	Up to 85 % rel. humidity, non-wetting

General Technical Characteristics

Motorisation and Drive

Motor output Up to	200 W
Gears	Worm gear
Drive	Toothed belt

Functional Safety

Maximum opening / closing speed	0.75 m / s
Conforms to norms and standards	EN 16 005, DIN 18 650

Drive Dimensions

Without side panels (T x H)	157 x 108 / 150 / 200 mm
With side panels (T x H)	194 x 08 / 150 / 200 mm

Thank you for your attention