



HIGH
SPEED
DOORS

Dear Sir/Madam,

Thank you for downloading the documentation for our **Dynamicroll CB 125** door: the complete roll-up door for cleanrooms. In this accompanying letter, we would like to briefly inform you about the features of the door. More importantly, we want to let you know that you can contact us for a customized specification if this does not meet your needs.

The attached Dynamicroll CB 125 door is suitable for indoor use and is specially designed for cleanroom applications. All components are integrated into the structure, minimizing the risk of dirt accumulation. Additionally, the door is highly resistant to pressure, and its air tightness performance is very high.

This results in a very low total cost of ownership for this door.

The door is equipped with a photoelectric sensor and anti-roll protection unless the door is wider than 3050 mm. From that point on, a light bar is used. Furthermore, the door is fitted with a transparent, rectangular strip. The fabric is available in sixteen colors. The base frame is galvanized. The covers can be galvanized or coated in RAL 9010. Optionally, both the covers and the base frame can be coated in the chosen RAL color. The electrical panel is equipped with a control button, an emergency button, and a main switch. A release button for the other side is provided.

The attached specification text describes a standard internal door. Naturally, many options are available. Therefore, we encourage you to consult the attached options sheet. Please contact us for a customized specification text.

Best Regards,

BMP HIGH SPEED DOORS

The team

All our deliveries/services are subject to the General Terms and Conditions of Sale. The General Terms and Conditions have been filed with the Chamber of Commerce and are available at our office upon request.



Standards and Classifications

Applicable standards and essential characteristics, EN 13241

- Machinery Directive 2006/42/EC
- EMC Directive 2014/30/EC
- Low Voltage Directive 2014/35/EC

Water tightness Class 1 compliant with EN 12425, tested according to EN 12489.

Wind load resistance Class 2 compliant with EN 12424, tested according to EN 12444.

Thermal transmission coefficient $U = W/m^2.K$: 6.02, as per EN 12428.

Air permeability Class 5 compliant with EN 12426, tested according to EN 12427.

Safety for vertical movement opening compliant with EN 12453, tested according to EN 12445.

Mechanical aspects - Requirements and test methods compliant with EN 12604, tested according to EN 12605.

Mechanical operational reliability according to EN 12604: 1,000,000 cycles, tested according to EN 12605.

Particle emission according to EN 14644-1 Class 5, tested in accordance with EN 14644-14.

Hygienic application GMP Class C, compliant with Annex 1 of the EU GMP.



30.63.11 FLEXIBLE DOOR.

0. FLEXIBLE DOOR.

Manufacturer: BMP HIGH SPEED DOORS.

Type: Dynamicroll CB125 roll-up door.

Position: Internal door for cleanroom.

- Opening speed: adjustable, maximum 2.0 m/s.
- Closing speed: adjustable, 0.8 m/s.
- Pressure and vacuum resistant.
- Clear width (mm): as indicated in the contract drawings.
- Clear height (mm): as indicated in the contract drawings.

Fabric:

- Opaque PVC fabric, 900 grams/m²: U = 6.02 W/m²K, in RAL (see options sheet).

Windows:

- Transparent PVC, rectangular, from 850x500 mm to 1200x500 mm, depending on the clear width, one row.

Frame:

- Galvanized base frame;
- Covers over the roller, motor, and columns, standard galvanized or coated in RAL 9010.

Guides:

- Hardened polyethylene, PEHD 500;
- Self-lubricating (no lubricants).

Roll-up shaft:

- Aluminum.

Anti-crash:

- Flexible and soft bottom bar;
- Zip fastening;
- Reintroduction slots in the guides.

Operation:

- Automatic opening, electrically operated;
- Automatic closing, gravity.

Control:

- Integrated in the columns.

Safety:

- Photoelectric cells, integrated into the door frame through the columns;
- Anti-roll protection.

Drive:

- Variable frequency electric motor with reducer, specific to this type of door, speed, and dimensions;
- Integrated into the door frame;
- Soft start and stop.

**Control**

- Powder-coated steel electrical panel, RAL 7016, IP54;
- Inverter;
- Main switch;
- Emergency stop;
- Adjustment of time before automatic closing;
- Interlocking function between two doors.

Accessories

- Wiring;
- Absolute encoder;
- Emergency operation via crank handle.

Wind resistance

- Class 2, EN 12424.

Air permeability

- $<12 \text{ m}^3/\text{m}^2\text{h}$ ($\Delta 50 \text{ PA}$).

Expected lifespan

- 1,000,000 cycles, EN 12604.



Options Sheet

If you wish to implement any options, please contact us to receive a customized technical data sheet:

[Contact | BMP HIGH SPEED DOORS](#)

Possible colors of the door leaf, at no additional cost, approximate:

RAL 1003 (signal yellow)	RAL 5012 (light blue)	RAL 7042 (traffic grey A)
RAL 1015 (light ivory)	RAL 6018 (yellow green)	RAL 8017 (chocolate brown)
RAL 2004 (pure orange)	RAL 6026 (opal green)	RAL 9005 (jet black)
RAL 3002 (ermine red)	RAL 7016 (anthracite grey)	RAL 9010 (pure white)
RAL 5002 (ultramarine blue)	RAL 7035 (light grey)	
RAL 5010 (gentian blue)	RAL 7037 (dust grey)	

Wind resistance

- Class 5, with patented magnetic system, EN 12424.

Windows:

- Transparent PVC, rectangular, 1200x500 mm or 850x500 mm, .. rows.
- Transparent PVC, with rounded corners, 1200x300 mm or 850x300 mm, two rows / .. rows.
- Transparent PVC, full width, 500 mm height, one row / .. rows.
- Transparent PVC, full vision.

Opening speed:

- Opening speed (m/s): adjustable, maximum 2.5.

Control:

- PVC electrical panel, IP65; Stainless steel 304 electrical panel, IP66;

Control components:

- Via radar impulse, BEA Falcon type, double-sided or single-sided.
- Via radar impulse, BEA Condor type (with stop detection), double-sided or single-sided.
- Via pull switch, including 4 meters of cord, double-sided or single-sided.
- Via Tof-spot radar, (range 6m1), double-sided or single-sided.
- Single-channel transmitter, button type, including remote control receiver.
- Two-channel handheld transmitter, including remote control receiver.
- Four-channel handheld transmitter, including remote control receiver.

**Safety components:**

- - Photoelectric barrier, integrated into the door frame through the columns.
- - Photoelectric barrier, integrated into the door frame through the columns in combination with anti-roll protection.

Frame:

- - Galvanized base frame, covers coated in a non-standard RAL color: RAL
- - Base frame and covers coated in a non-standard RAL color: RAL
- - Stainless steel 441, including covers on the roller, motor, and columns.
- - Stainless steel 304, including covers on the roller, motor, and columns.
- - Stainless steel 316, including covers on the roller, motor, and columns.

Other stainless steel components:

- - Roll-up shaft, stainless steel 304.
- - Brake, stainless steel 304.

Emergency operation:

- - Emergency operation via UPS including batteries.