



HIGH
SPEED
DOORS

Dear Sir/Madam,

Thank you for downloading the documentation for our **Dynamicroll® AIR**, the complete high-speed door for optimal compartmentalization. In this accompanying letter, we would like to briefly inform you about the features of the door. Additionally, we want to let you know that you can contact us for custom specifications if this does not meet your requirements.

The Dynamicroll® AIR is equipped with an air curtain within the door columns. When the high-speed door is opened, this air curtain activates, creating an air barrier from inside the door columns, limiting air transport through the opening and preventing energy loss. Furthermore, it repels flying insects. It is entirely self-repairing and features a flexible bottom beam. Performance in terms of air permeability, thermal insulation, and durability is high.

This makes the total cost of ownership of this door very low.

The door is equipped with a photoelectric sensor and an anti-unrolling safety device. The curtain is available in sixteen colors. The electrical panel includes a control button, an emergency button, and a main switch. A button for the opposite side is provided.

The text of the attached specifications describes a standard internal door. Naturally, there are many options available. Therefore, we invite you to contact us for personalized specifications

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.

BMP EUROPE HIGH SPEED DOORS

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Standards and Classifications

Applicable regulations and essential characteristics:

- EN 13241 Standard
- Machinery Directive 2006/42/EC
- EMC Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU

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

Wind load resistance dependent on dimensions, up to class 4 compliant with EN 12424, tested according to EN 12444.

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

Air permeability class 1 compliant with EN 12426, tested according to EN 12427.

Safety of 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.



30.63.11 FLEXIBLE DOOR.

Manufacturer: BMP HIGH SPEED DOORS.

Model: DynamicRoll AIR high-speed door

Location: Internal door.

A high-speed door with integrated air curtain. As soon as the door opens, an air barrier is created in the opening.

- Opening speed: adjustable, maximum 2.0 m/s.
- Closing speed: adjustable, 0.8 m/s.
- Resistant to overpressure and underpressure.
- Width of the opening (mm): as specified in the tender drawings.
- Height of the opening (mm): as specified in the tender drawings.

Door leaf

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

Windows

- Transparent PVC, rectangular, 850x500 mm up to 1200x500 mm, depending on the width of the opening, one passage.

Door frame

- Galvanized base frame;
- Covers on rollers, motor, and uprights, galvanized.

Guides

- Reinforced polyethylene, PEHD 500;
- Self-lubricating (does not contain lubricants).

Motor shaft

- Aluminum.

Anti-crash

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

Operation

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

Operativity

- Via 1 button on the control box, plus 1 button (on the opposite side).

Safety

- Photocell protection, integrated in the door uprights;
- Anti-unrolling protection.

**Guide**

- Electric motor with adjustable frequency and reducer, specific for this type of door, speed, and dimensions;
- Gradual start and stop.

Control

- Powder-coated steel control box, RAL 7016, IP54;
- Inverter;
- Main switch;
- Emergency stop;
- Adjustable time setting before automatic closing;
- Interlock function between two doors.

Accessories

- Air curtain integrated in the door uprights;
- Wiring;
- Absolute encoder;
- Emergency control via crank.

Wind resistance

- < L 2900 mm x H 2900 mm class 4, EN 12424;
- < L 4700 mm x H 4700 mm class 3, EN 12424;
- < L 5700 mm x H 5700 mm class 2, EN 12424.

Air permeability

- Class 1, EN 12426.

Expected service life

- 1,000,000 cycles, EN 12604.



Options Sheet

If you wish to implement any options, please contact us to obtain a personalized technical sheet:

[Contact| BMP HIGH SPEED DOORS](#)

Possible door colors, 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)	

Windows:

- Transparent PVC, rectangular, 1200x500 mm or 850x500 mm, .. passages.
- Transparent PVC, with rounded corners, 1200x300 mm or 850x300 mm, two passages / .. passages.
- Transparent PVC, spanning the entire width, 500 mm in height, one passage / .. passages.
- Transparent PVC, full vision. Insect screen, rectangular, 1200x500 mm or 850x500 mm, one passage / .. passages.
- Insect screen with rounded corners, 1200x300 mm or 850x300 mm, two passages / .. passages.
- Insect screen spanning the entire width, 500 mm in height, one passage / .. passages.
- Insect screen, full vision.

Controls:

- Control box in stainless steel 304, IP66;

Control components:

- Through radar impulse, BEA Falcon type, double-sided or single-sided.
- Through radar impulse, BEA Condor type (with stop detection), double-sided or single-sided.
- Through pull cord, incl. 4-meter rope, double-sided or single-sided.
- Through Tof-spot radar, (range 6m1), double-sided or single-sided.
- 1-channel transmitter, snap-button type, including remote control receiver.
- 2-channel transmitter, including remote control receiver.
- 4-channel transmitter, including remote control receiver.

**Frame:**

- Galvanized base frame, caps coated in a non-standard RAL color: RAL
- Galvanized base frame and caps coated in a non-standard RAL color: RAL
- STAINLESS STEEL 441, including caps on roller, motor, and uprights.
- STAINLESS STEEL 304, including caps on roller, motor, and uprights.
- STAINLESS STEEL 316, including caps on roller, motor, and uprights.

Safety components:

- Photoelectric curtain, built into the door uprights through the door panel.
- Photoelectric curtain, built into the door uprights through the door panel with anti-unrolling protection.

Other stainless steel components:

- Winding shaft, in stainless steel 304.
- Brake, in stainless steel 304.

Emergency control:

- Emergency control via UPS, including batteries.