



HIGH  
SPEED  
DOORS

Dear Sir/Madam,

Thank you for downloading the documentation for our DynamicRoll high-speed door: the complete solution for standard applications. In this accompanying letter, we would like to provide you with a brief overview of the door. More importantly, we want to inform you that you can contact us for custom specifications if the standard ones do not meet your requirements.

The Dynamicroll door is suitable for normal indoor applications and is fully self-repairing. It features a flexible bottom bar and no rigid parts in the door panel, significantly enhancing safety. Its performance in terms of wind resistance, air permeability, thermal insulation, and durability is high.

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

The door comes with an infrared sensor and an anti-release safety device, unless the door is wider than 3050 mm, in which case a light strip is used. Additionally, it is equipped with a rectangular transparent strip. The fabric is available in sixteen colors. The basic frame is zinc-coated. Covers can be zinc-coated or coated in RAL 9010. Optionally, both covers and the basic frame can be coated in a color of your choice. The control box includes a control button, an emergency button, and a main switch. A release button for the other side is also included.

The attached specification text describes a standard internal door. Of course, there are many options available, which are detailed in the accompanying options sheet. Please contact us for a customized specification.

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.



## Norms and classifications

Applicable regulations and essential characteristics:

- EN 13241 standard
- 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 dependent on dimensions, up to class 4 compliant with EN 12424, tested according to EN 12444.

Thermal transmittance 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.

Vertical movement opening safety 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 reliability according to EN 12604: 1,000,000 cycles, tested according to EN 12605.



### 30.63.11 FLEXIBLE DOOR.

#### 0. FLEXIBLE DOOR.

Manufacturer: BMP HIGH SPEED DOORS.

Type: Dynamicroll high-speed door.

Position: Internal door.

- Opening speed: adjustable, maximum 2.0 m/s.
- Closing speed: adjustable, 0.8 m/s.
- Resistant to overpressure and underpressure.
- Clear width (mm): as indicated in the specification drawings.
- Clear height (mm): as indicated in the specification drawings.

#### **Door Leaf**

- PVC fabric, opaque, 900 grams/m<sup>2</sup>: U = 6.02 W/m<sup>2</sup>K, in RAL .... (see options sheet).

#### **Windows**

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

#### **Door Frame**

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

#### **Guides**

- Reinforced polyethylene, PEHD 500;
- Self-lubricating (no lubricant).

#### **Winding Shaft**

- Aluminum.

#### **Anti-Crash**

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

#### **Operativity**

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

#### **Control**

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

#### **Safety**

- Light barrier, integrated into the door uprights and crossing the curtain;

#### **Motor**

- Variable frequency electric motor with reducer, specific for this type of door, speed, and dimensions;
- Progressive start and stop.

**Control**

- Painted steel control box, RAL 7016, IP54;
- Inverter; Main switch; Emergency stop;
- Adjustment of the time before automatic closure;
- Interlocking function between two doors.

**Accessories**

- Wiring;
- Absolute encoder;
- Emergency control via crank.

**Wind resistance**

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

**Air permeability**

- Class 1, EN 12426.

**Expected lifespan**

- 1,000,000 cycles, EN 12604.



## Options Sheet

If you wish to implement any options, please contact us to obtain a customized technical specification:

[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)	

### Air permeability

- Class 4, EN 12426.

### Windows:

- Transparent PVC, rectangular, 1200x500 mm or 850x500 mm, .. panels.
- Transparent PVC, with rounded corners, 1200x300 mm or 850x300 mm, two panels / .. panels.
- Transparent PVC, full width, 500 mm height, one panel / .. panels.
- Transparent PVC, full vision.
- Insect screen, rectangular, 1200x500 mm or 850x500mm, one panel / .. panels.
- Insect screen with rounded corners, 1200x300 mm or 850x300 mm, two panels / .. panels.
- Insect screen full width, 500 mm height, one panel / .. panels.
- Insect screen, full vision.

### Control:

- PVC control box, IP65;
- Stainless steel 304 control box, IP66;

### Control components:

- Via radar impulse, BEA Falcon type, bidirectional or unidirectional.
- Via radar impulse, BEA Condor type (with stop detection), bidirectional or unidirectional.
- Via pull switch, incl. 4-meter cord, bidirectional or unidirectional.
- Via Tof-spot radar points, (range 6m1), bidirectional or unidirectional.
- 1-channel transmitter, release button type, including remote control receiver.
- 2-channel transmitter, including remote control receiver.
- 4-channel transmitter, including remote control receiver.

**Safety Components:**

- Photocell safety device, integrated into the door curtain in the door uprights, with anti-release safety feature.
- Safety light barrier in the door uprights with anti-release safety feature.

**Frame:**

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

**Other stainless steel components:**

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

**Emergency Control:**

- Emergency control via counterweight;
- Emergency control via UPS including batteries.

**Heating Elements**

(applied in continuous ambient temperature below 0°C):

- Heating tape near the motor.