



HIGH
SPEED
DOORS

Dear Sir/Madam,,

Thank you for downloading the documentation of our **DynamicRoll** high-speed door: the complete high-speed door for outdoor applications. In this accompanying letter, we would like to briefly inform you about the door. More importantly, we want to let you know that you can contact us for a customized specification if the standard one does not meet your requirements.

The attached DynamicRoll is suitable for normal outdoor applications and is completely self-repairing. It features a flexible bottom bar, and there are no rigid parts in the door panel, greatly enhancing safety. The 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 is equipped with a photocell and anti-release safety device unless the door is wider than 3050 mm. From that point on, a light strip and anti-release safety device are used. Additionally, it comes with a rectangular transparent strip. The fabric is available in sixteen colors. The basic structure is galvanized. The covers can be galvanized or coated in RAL 9010. At an additional cost, both the covers and the basic structure can be coated in a color of your choice from the RAL range. The control box is equipped with a control button, an emergency button, and a main switch. A release button for the other side is included.

The attached specification text describes a standard indoor door. Of course, many options are available. For these, please refer to the attached 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.



Standards and Classification

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.

Safety of vertical movement opening according to 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.



30.62.25 ROLL-UP DOOR.

Manufacturer: BMP HIGH SPEED DOORS.

Type: Dynamicroll high-speed roll-up door.

Position: External door.

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

Door panel:

- PVC fabric, opaque, 900 grams/m²: U = 6.02 W/m²K, in RAL ... (see options sheet);
- Additional reinforcement for wind resistance, tailored to the door dimensions.

Windows:

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

Door frame:

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

Guides:

- Reinforced polyethylene, PEHD 500;
- Self-lubricating (no lubricants);
- Steel guide reinforcement, tailored to the door dimensions.

Roll-up shaft:

- Aluminum.

Anti-crash:

- Flexible and soft bottom bar;
- Zip closure;
- Re-entry grooves in the guides.

Operation:

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

Control:

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

Security:

- Light barrier, integrated in the door uprights and crossing the panel; Anti-release safety device.

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 time before automatic closing;
- Interlock function between two doors.

Accessories:

- Wiring; Absolute encoder;
- Emergency release;
- 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.



Option 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)	

Air permeability:

- Class 4, EN 12426.

Windows:

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

Control:

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

Control components:

- Via radar impulse, BEA Falcon type, bi-directional or uni-directional.
- Via radar impulse, BEA Condor type (with stop detection), bi-directional or uni-directional.
- Via pull switch, incl. 4-meter cord, bi-directional or uni-directional.
- Via Tof-spot radar, (6m1 range), bi-directional or uni-directional.
- 1-channel transmitter, push 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 sheet in the door stiles, with anti-release safety device.
- Safety light barrier in the door stiles with anti-release safety device.

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 roller, motor, and stiles.
- Stainless steel 304, including covers on roller, motor, and stiles.
- Stainless steel 316, including covers on roller, motor, and stiles.

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 at a continuous ambient temperature below 0 °C):

- Heating tape near the motor.