



DynamicRoll® AIR

TECHNICAL DATA



HIGH SPEED
Up to 2,5 m/s



HIGH SAFETIES



WIND RESISTANCE



SELF-REPAIR



OIL FREE



LOW PERMEABILITY



ANTI INSECTS

MAXIMUM DIMENSIONS	W 4500 mm x H 8000 mm
SPEED	Max opening speed Up to 2,5 m/s
	Closing speed 0,8 m/s adjustable
CYCLES TEST	1.000.000
WIND RESISTANCE	3000 x 3000 Class 4 4500 x 5000 Class 3
STRUCTURE	Not self-supporting
FRAME / MOTOR COVER HOOD	Standard Galvanized steel
	Optional Powder coated Steel Stainless Steel 441/316
CURTAIN	Standard PVC curtain 1300 gr/m ² , 6 W/m ² k
	Optional • Insulated • Translucent 35/40% • FDA (white) • Antistatic
SLIDING SYSTEM	Patented sliding system with high density Polyzene self-lubricant equipped of sliding zipper directly on curtain
VENTILATION SYSTEM	1Kw / linear meter of useful height
AIR FLOW OF AIR SYSTEM	10 m/s
CONTROL PANEL	Standard coated steel panel IP54 (300 x 500 x 150 mm)
	Optional • Stainless steel • PVC panel IP65 (300 x 400 x 150 mm)
	Inverter 50/60 Hz with absolute encoder
	Power supply 1-ph, 230V
	Power supply 3-ph, 400V+N
	Power supply 3-ph, 230V
	Start/Stop button
	2 free contacts (door open / closed / alarm)
	Automatic/Manual Interlocking between 2 doors
	IP54 rating for motor and control panel
WIRING	Plug and Play system IP65
SAFETIES	Standard • IP65 photocells set • Anti-jam sensor reverse • IP65 wifi safety edge
	Optional • H 2500 IP67 Multi ray light curtain barrier
EMERGENCY OPENING	Standard Hand crank
	Optional Chain system Counterweight system UPS Battery
ADVISING OPERATIVE TEMPERATURE	Operating till - 30 °C with addition of heating kit - Not adapt to be installed in negative / positive temperature

The **DynamicRoll® AIR** is an industrial self-repairing high-speed door with fans - positioned in the columns - that create an air curtain to separate two environments, or to reduce contaminants entering.

The **DynamicRoll® AIR** is designed to separate two high-traffic environments, with different temperatures or humidity, with a double side ventilation system, with air recycling to avoid turbulence on the floor.

The specifically designed zip guide system allows the curtain to exit the guides in the event of impact and reinsert in one cycle.

EN13241 CERTIFICATION

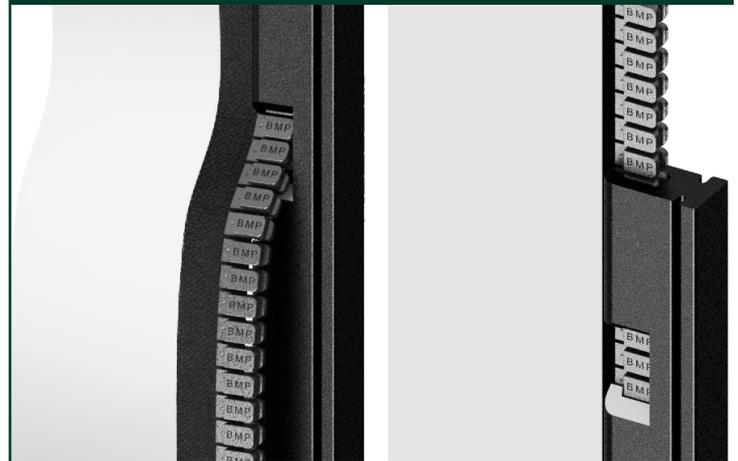
STANDARD	RIF.	TEST ACC.	RESULTS
WATER PERMEABILITY	EN 12425	EN 12489	Class 1
WIND LOAD	EN 12424	EN 12444	Class 4
AIR PERMEABILITY	EN 12426	EN 12427	Class 2
			Class 4 with Patented magnetic system
SAFE OPENINGS	EN 12453	EN 12445	✓
MECHANICAL RESISTANCE	EN 12604	EN 12605	✓
UNINTENDED MOVEMENTS	EN 12604	EN 12605	✓
THERMAL TRANSMITTANCE	EN 12428	EN 12428	6,02 W/m²K
PERFORMANCE (CYCLES)	EN 12604	EN 12605	1.000.000

Values can change depending on door dimensions

ADVANTAGES

- Self-repairing
- Rapid
- Sealing
- Noiseless
- No rigid elements inside the curtain for 100% safety
- Plug & play (easy to install)
- Low maintenance
- Energy savings

SLIDING SYSTEM / SELF-REPAIRING



APPLICATIONS

Industry

Big retails

Storage warehouses

Manufacturing laboratories

Chemical

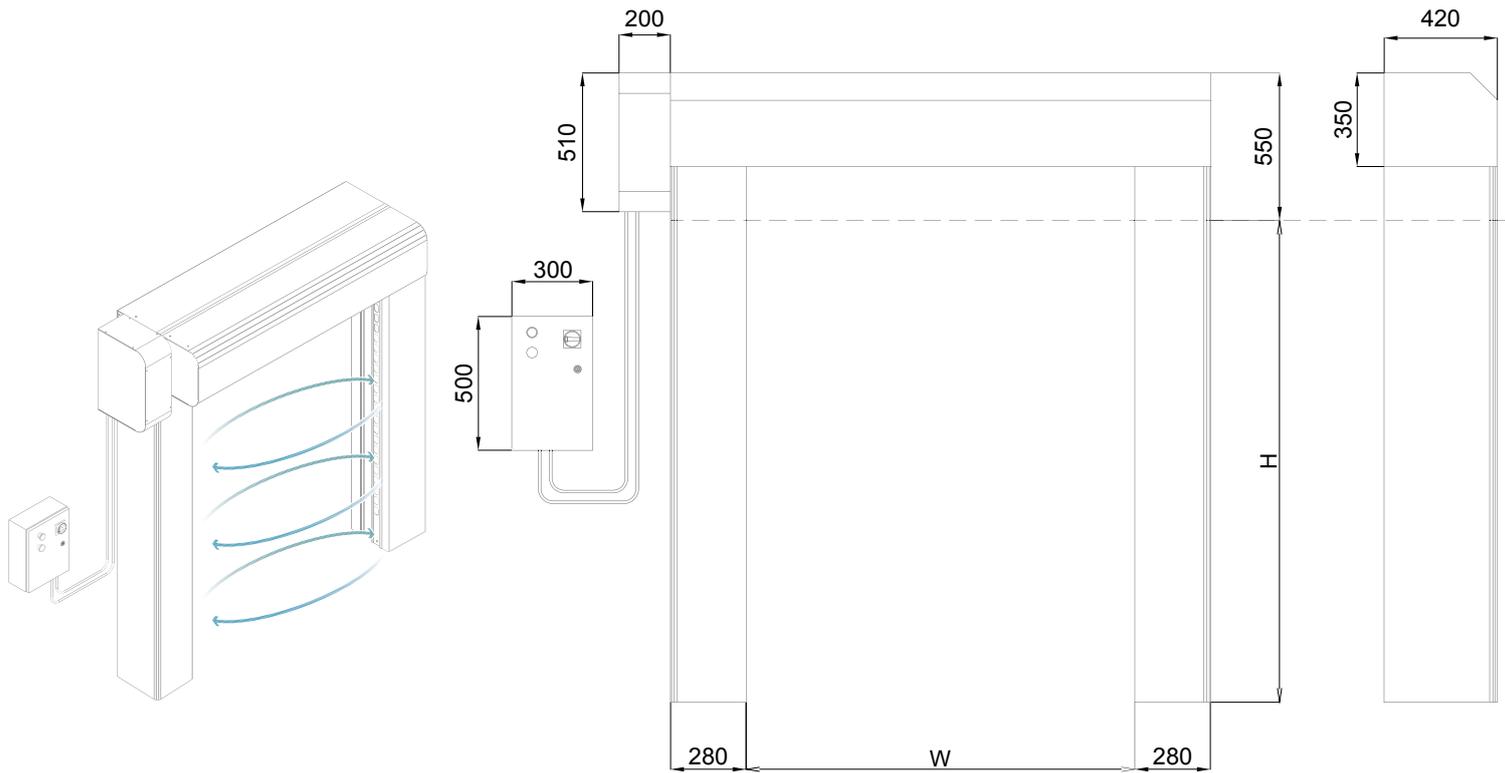
Automotive

Car washes

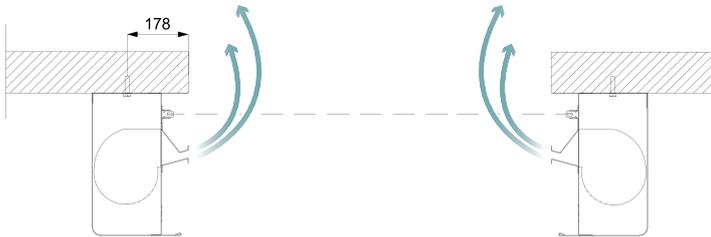
Food industry



DOOR SPACE REQUIREMENTS



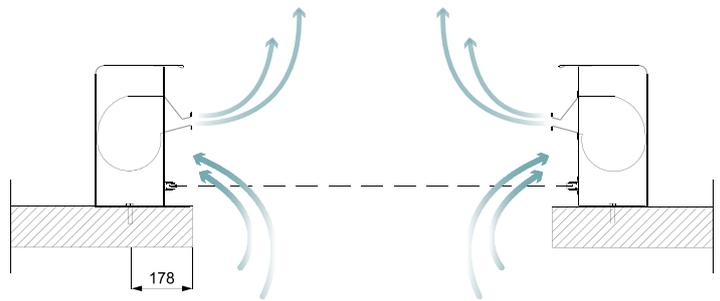
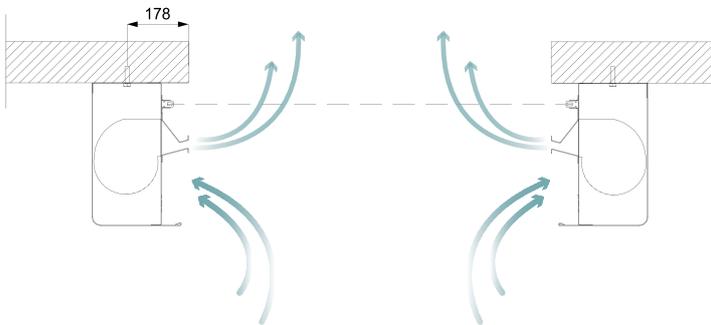
SOLUTION FOR LOADING SPACES



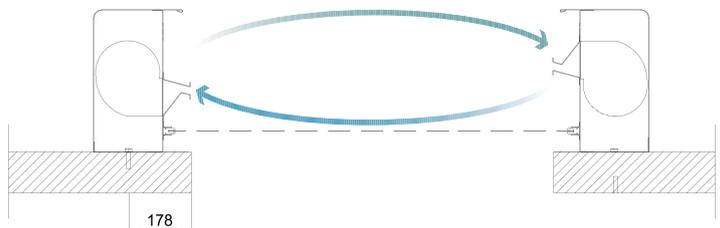
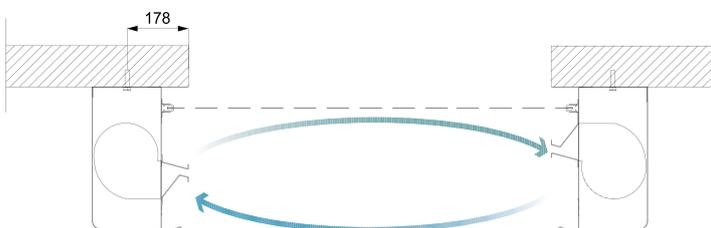
Ventilation System

It is strongly suggested where you need to separate two areas with different temperatures or humidity's and high traffic. The Air system guarantees a very good separation of the two areas and temperatures when the door is open thanks to a double ventilation system providing air recirculation across the door opening.

SOLUTION FOR UNPOLLUTED SPACES



SOLUTION FOR SPACES WITH DIFFERENT TEMPERATURES



PVC CHARACTERISTICS

STANDARD PVC

Composition and tests

EXTERNAL SIDE			
Material	Finishing	Color	Thick
PVC	Opaque	18 standard	0,7 mm
FABRIC			
Material	N. tarps	Title	EN 2286-2
PES	1	1100Dtex 12x12	900 g/m ²
INTERNAL SIDE			
Material	Finishing	Color	Thick
PVC	Rough	18 standard	0,2 mm
COLD RESISTANCE ISO 4675/90 -50°C ±5			
HYDROLYSIS TEST 75°C 95% humidity none variation			
GAS OIL TEST - none variation			
MARINE WATER TEST - none variation			
OZONE TEST ISO 3011 none crack			
T. STORAGE (°C) -30 +65			
FLAME TEST ISO 3795 < 100 mm/min			
PERFORATION RINA 3.A1.2.7 (N) > 100			
EXERCISE 7 days -70°C ISO 6065 none variation			

Characteristics

THICK ISO 2286/3 (mm) 0,9±0,1
WEIGHT ISO 2286/2 (kg/m ²) 0,90±0,1
LOAD BREAK ISO 1421 6000 N/50mm
WARP EXTENSION ISO 1421 4300 N/50mm
TEXTURE EXTENSION ISO 1421 4000 N/50mm
WARP BREAK dIN 53363 (N) > 600
TEXTURE BREAK dIN 53363 (N) > 530
ADHESION dIN EN ISO 2411 130 N/50mm
EEC CONFORMITY - Yes
SPECIFIC USE industry, refrigerators, car washes, supermarkets, warehouses
ASSOCIATION -

Colors



 Translucent  Antistatic available
FDA (Food Drug Administration) certified pvc available

INSULATED PVC

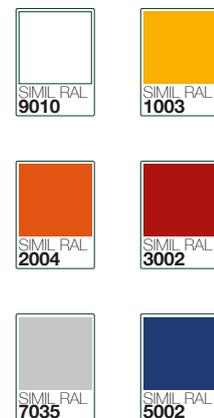
Composition and tests

EXTERNAL SIDE			
Material	Finishing	Color	Thick
PVC	Straight	6 standard	0,5 mm
FABRIC			
Material	N. tarps	Title	EN 2286-2
PES	1	1100Dtex 12x12	1350 g/m ²
INTERNAL SIDE			
Material	Finishing	Color	Thick
PVC	Sponge	6 standard	7 mm
COLD RESISTANCE ISO 4675/90 -10°C ±5			
HYDROLYSIS TEST 75°C 95% humidity none variation			
GAS OIL TEST - none variation			
MARINE WATER TEST - none variation			
OZONE TEST ISO 3011 none crack			
T. STORAGE (°C) -30 +65			
FLAME TEST ISO 3795 cl 2, NFPA 701 test 2			
PERFORATION RINA 3.A1.2.7 (N) > 100			
EXERCISE 7 days -70°C ISO 6065 none variation			

Characteristics

THICK ISO 2286/3 (mm) 7,0±0,1
WEIGHT ISO 2286/2 (kg/m ²) 1,7±0,1
LOAD BREAK ISO 1421 6000 N/50mm
WARP EXTENSION ISO 1421/V1 3000 N/50mm
TEXTURE EXTENSION ISO 1421/V1 2800 N/50mm
WARP BREAK dIN 53363 300 N
TEXTURE BREAK dIN 53363 300 N
ADHESION PA 09.03 (internal) 15 N/cm
THERMAL CONDUCTIVITY - 0,03782 W.m ⁻¹
ISOLATION INDEX - Rw= 17,5 dB
EMPLOYMENT industry, refrigerators, car washes, supermarkets, warehouses
ASSOCIATION -

Colors



OPTIONAL ACCESSORIES



RADAR



OPENING POINTING RADAR
TOF/SPOT
for internal use only



INFRARED RADAR
with cross-movement
adjustment



INFRARED RADAR
motion and presence
(pedestrian/forklift) radar

TRAFFIC LIGHTS



GREEN FIXED STANDARD
traffic light



RED FIXED STANDARD
traffic light



LED TRAFFIC LIGHT
with countdown



LED TRAFFIC LIGHT BARRIERS
(connection card included)

BUTTONS



OPENING GREEN BUTTON
with box



OPENING BLACK BUTTON
with box



FREEZE STOP BUTTON
with box



NO TOUCH BUTTON



TRAFFIC LIGHT BUTTON
DUAL-FUNCTION
opening and
intermittent door
opening/closing
signaling



WIND GAUGE



KEY SELECTOR



REMOTE CONTROL



BOLLARD B-PROTECT



PULL CORD SWITCH



MAGNETIC LOOP DETECTOR

Quality products since 1997

BMP EUROPE HIGH SPEED DOORS
Strada della Freisa 1 - Villanova d'Asti 14019 (AT)
+39 0141 948843
www.bmpdoors.com - info@bmpdoors.com

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