



HIGH  
SPEED  
DOORS



**DynamicRoll®** AIR

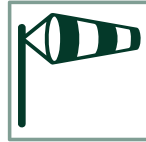
# TECHNICAL DATA



**HIGH SPEED**  
Up to 2,5 m/s



**HIGH SAFETIES**



**WIND RESISTANCE**



**SELF-REPAIR**



**OIL FREE**



**LOW PERMEABILITY**



**ANTI INSECTS**

<b>MAXIMUM DIMENSIONS</b>	<b>W</b> 4500 mm x <b>H</b> 8000 mm
<b>SPEED</b>	<b>Max opening speed</b> Up to 2,5 m/s
	<b>Closing speed</b> 0,8 m/s adjustable
<b>CYCLES TEST</b>	1.000.000
<b>WIND RESISTANCE</b>	3000 x 3000 Class 4 4500 x 5000 Class 3
<b>STRUCTURE</b>	Not self-supporting
<b>FRAME / MOTOR COVER HOOD</b>	<b>Standard</b> Galvanized steel
	<b>Optional</b> Powder coated Steel Stainless Steel 441/316
<b>CURTAIN</b>	<b>Standard</b> PVC curtain 1300 gr/m <sup>2</sup> , 6 W/m <sup>2</sup> k
	<b>Optional</b> • Insulated • Translucent 35/40% • FDA (white) • Antistatic
<b>SLIDING SYSTEM</b>	Patented sliding system with high density Polyzene self-lubricant equipped of sliding zipper directly on curtain
<b>VENTILATION SYSTEM</b>	1Kw / linear meter of useful height
<b>AIR FLOW OF AIR SYSTEM</b>	10 m/s
<b>CONTROL PANEL</b>	<b>Standard</b> coated steel panel IP54 (300 x 500 x 150 mm)
	<b>Optional</b> • 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
<b>WIRING</b>	Plug and Play system IP65
<b>SAFETIES</b>	<b>Standard</b> • IP65 photocells set • Anti-jam sensor reverse • IP65 wifi safety edge
	<b>Optional</b> • H 2500 IP67 Multi ray light curtain barrier
<b>EMERGENCY OPENING</b>	<b>Standard</b> Hand crank
	<b>Optional</b> Chain system Counterweight system UPS Battery
<b>ADVISING OPERATIVE TEMPERATURE</b>	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

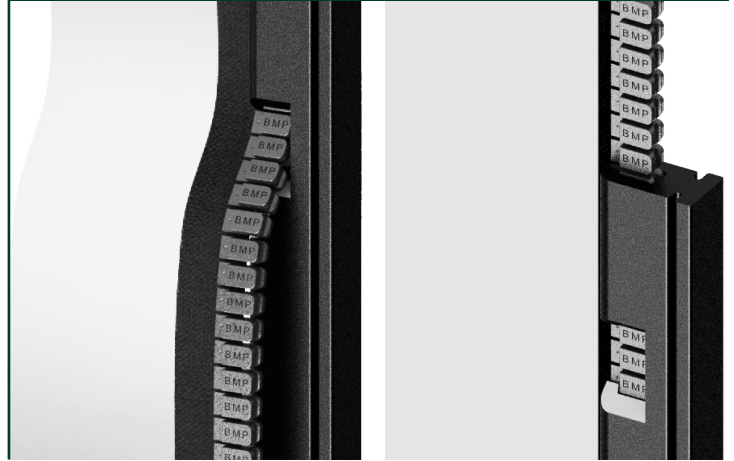
STANDARD	RIF.	TEST ACC.	RESULTS
WATER PERMEABILITY	EN 12425	EN 12489	Class 1
WIND LOAD	EN 12424	EN 12444	Class 4
AIR PERMEABILITY	EN 12426	EN 12427	Class 2
			Class 4 with Patented magnetic system
SAFE OPENINGS	EN 12453	EN 12445	✓
MECHANICAL RESISTANCE	EN 12604	EN 12605	✓
UNINTENDED MOVEMENTS	EN 12604	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

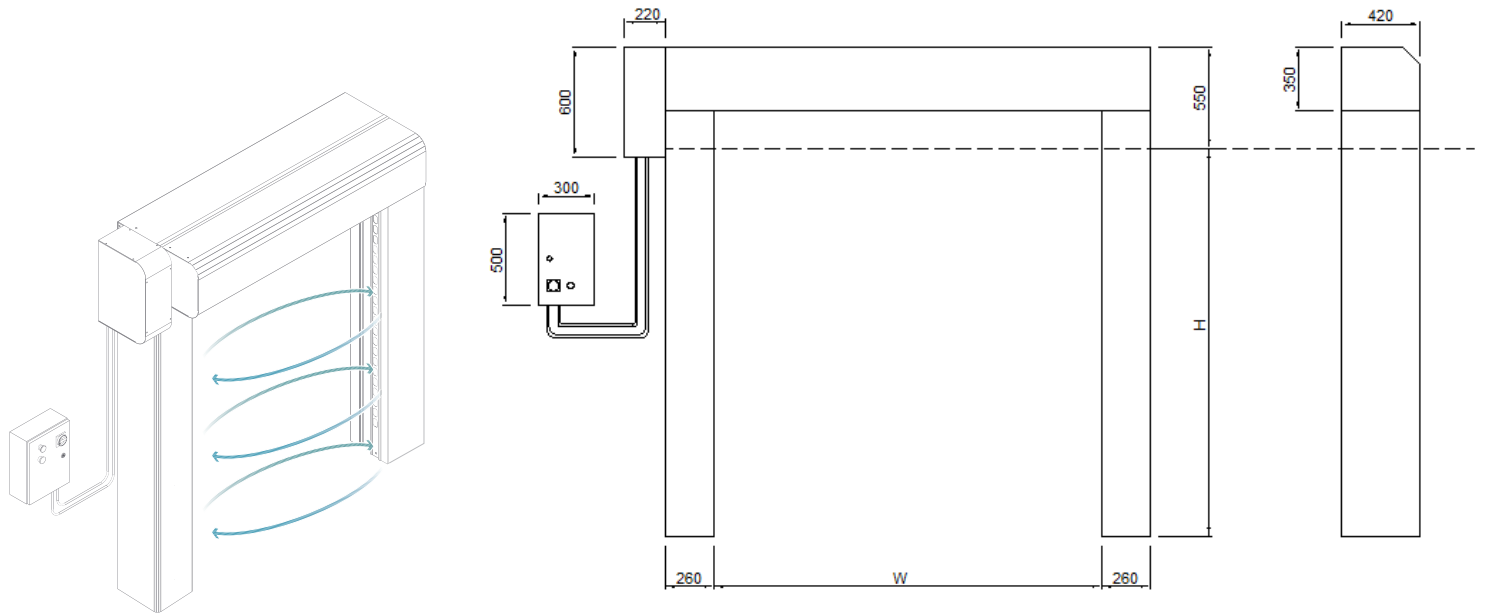
Automotive

Car washes

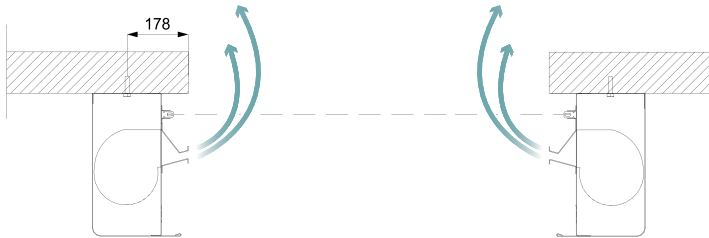
Food industry



# DOOR SPACE REQUIREMENTS



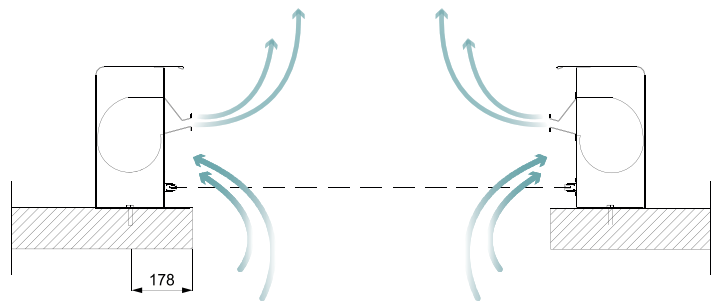
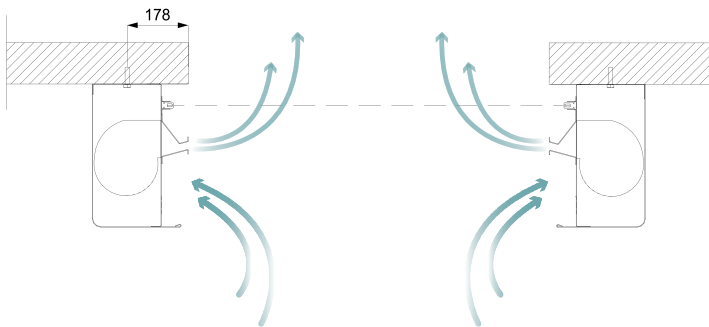
## SOLUTION FOR LOADING SPACES



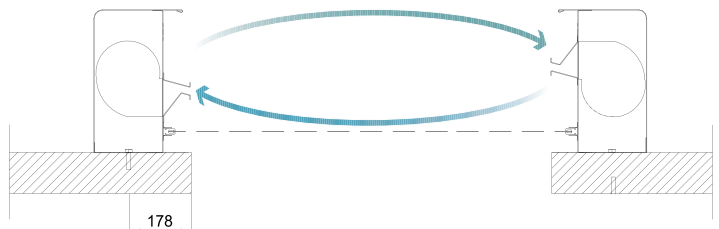
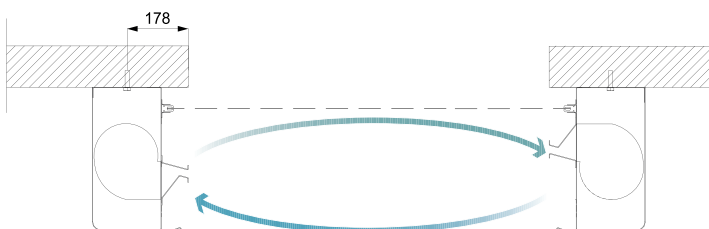
### Ventilation System

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 <sup>2</sup>
INTERNAL SIDE			
Material	Finishing	Color	Thick
PVC	Rough	18 standard	0,2 mm
<b>COLD RESISTANCE</b> ISO 4675/90 -50°C ±5			
<b>HYDROLYSIS TEST</b> 75°C 95% humidity none variation			
<b>GAS OIL TEST</b> - none variation			
<b>MARINE WATER TEST</b> - none variation			
<b>OZONE TEST</b> ISO 3011 none crack			
<b>T. STORAGE</b> (°C) -30 +65			
<b>FLAME TEST</b> ISO 3795 < 100 mm/min			
<b>PERFORATION</b> RINA 3.A1.2.7 (N) > 100			
<b>EXERCISE 7 days -70°C</b> ISO 6065 none variation			

### Characteristics

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

### Colors



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

## INSULATED PVC

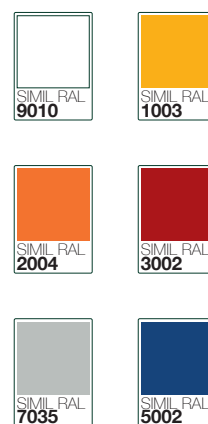
### Composition and tests

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 <sup>2</sup>
INTERNAL SIDE			
Material	Finishing	Color	Thick
PVC	Sponge	6 standard	7 mm
<b>COLD RESISTANCE</b> ISO 4675/90 -10°C ±5			
<b>HYDROLYSIS TEST</b> 75°C 95% humidity none variation			
<b>GAS OIL TEST</b> - none variation			
<b>MARINE WATER TEST</b> - none variation			
<b>OZONE TEST</b> ISO 3011 none crack			
<b>T. STORAGE</b> (°C) -30 +65			
<b>FLAME TEST</b> ISO 3795 cl 2, NFPA 701 test 2			
<b>PERFORATION</b> RINA 3.A1.2.7 (N) > 100			
<b>EXERCISE 7 days -70°C</b> ISO 6065 none variation			

### Characteristics

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

### 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



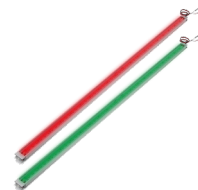
GREEN FIXED STANDARD  
traffic light



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



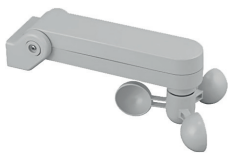
FREEZE STOP BUTTON  
with box



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  
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