



HIGH
SPEED
DOORS



FRIGO 2

TECHNICAL DATA



LOW TEMPERATURE



DOUBLE CURTAIN



SELF-REPAIR



SAFE



HIGH SPEED



OIL FREE



GRAVITY TECHNOLOGY

MAXIMUM DIMENSIONS	W 6000 mm x H 7000 mm
SPEED	Max opening speed Up to 1,8 m/s
	Closing speed 0,8 m/s
CYCLES TEST	1.000.000
WIND RESISTANCE	Class 2
STRUCTURE	Not self-supporting
FRAME / MOTOR COVER HOOD	Standard • Galvanized steel • Powder coated steel
	Optional Stainless Steel 304/316
CURTAIN	Standard PVC curtain 900 gr/m ²
SLIDING SYSTEM	Patented sliding system with high density Polyzene self- lubricant equipped of sliding zipper directly on curtain.
CONTROL PANEL	Power supply 3-ph, 230 V
	Power supply 3-ph + N 380 V
	Inverter system 50/60 Hz with absolute encoder
	IP rating for motor and control panel IP54
WIRING	Plug and Play system IP65
SAFETIES	Standard • Photocells set IP65 • Anti-jam sensor reverse • WiFi safety edge IP65
	Optional • Multi ray light curtain barrier H 2500 IP67
EMERGENCY OPENING	Standard Hand crank
	Optional Chain system UPS battery
HEATING KIT	A: Warm air blower 2,35kW max.
	Optional B: Heating cable 30W ml

DynamicRoll® **FRIGO 2** is a self-repairing roll up door made up of 2 flexible curtains, divided by 200mm and when in closed position create an insulated air barrier.

This technology makes the door ideal to meet the refrigeration field needs, where it's often needed to separate environments with positive temperature and negative one, avoiding the condensation and icing, situation dangerous for workers and for proper operation of door itself.

DynamicRoll® **FRIGO 2** can be installed both in positive and negative temperature and it's a guaranteed of safety for workers and means, due to the specifically designed zip guide system that allows the curtain to exit the guides in the event of impact and reinsert in one cycle.



EN13241 CERTIFICATION

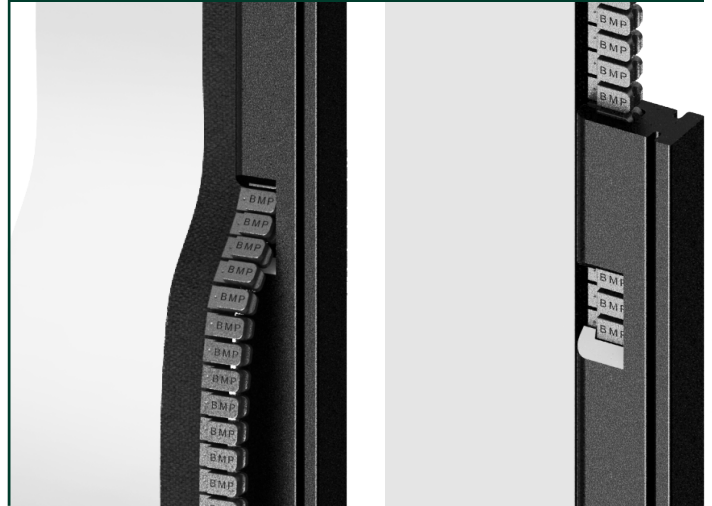
STANDARD	RIF.	TEST ACC.	RESULTS
WATER PERMEABILITY	EN 12425	EN 12489	Class 1
WIND LOAD	EN 12424	EN 12444	Class 2
AIR PERMEABILITY	EN 12426	EN 12427	Class 1
SAFE OPENINGS	EN 12453	EN 12445	✓
MECHANICAL RESISTANCE	EN 12604	EN 12605	✓
UNINTENDED MOVEMENTS	EN 12604	EN 12605	✓
THERMAL TRANSMITTANCE	EN 12428	EN 12428	2,0 W/m ² K
PERFORMANCE (CYCLES)	EN 12604	EN 12605	1.000.000

Values can change depending on door dimensions

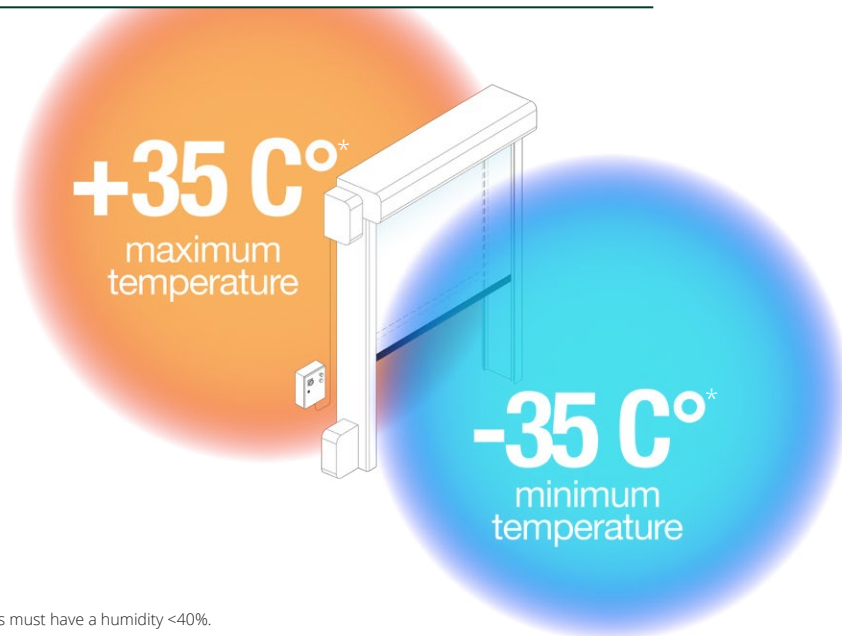
ADVANTAGES

- Self-repairing
- Rapid
- Sealing
- Noiseless
- No rigid elements inside the curtain for 100% safety
- Plug & play (easy to install)
- Low maintenance
- Energy savings
- Allow the traffic flows in safety between areas of high temperature gap
- Double PVC curtains (airspace between 200 mm)

SLIDING SYSTEM / SELF-REPAIRING



ADVISING OPERATIVE TEMPERATURE



*The ΔT must be a maximum of 35°. At higher ΔT , positive room temperatures must have a humidity <40%.

APPLICATIONS

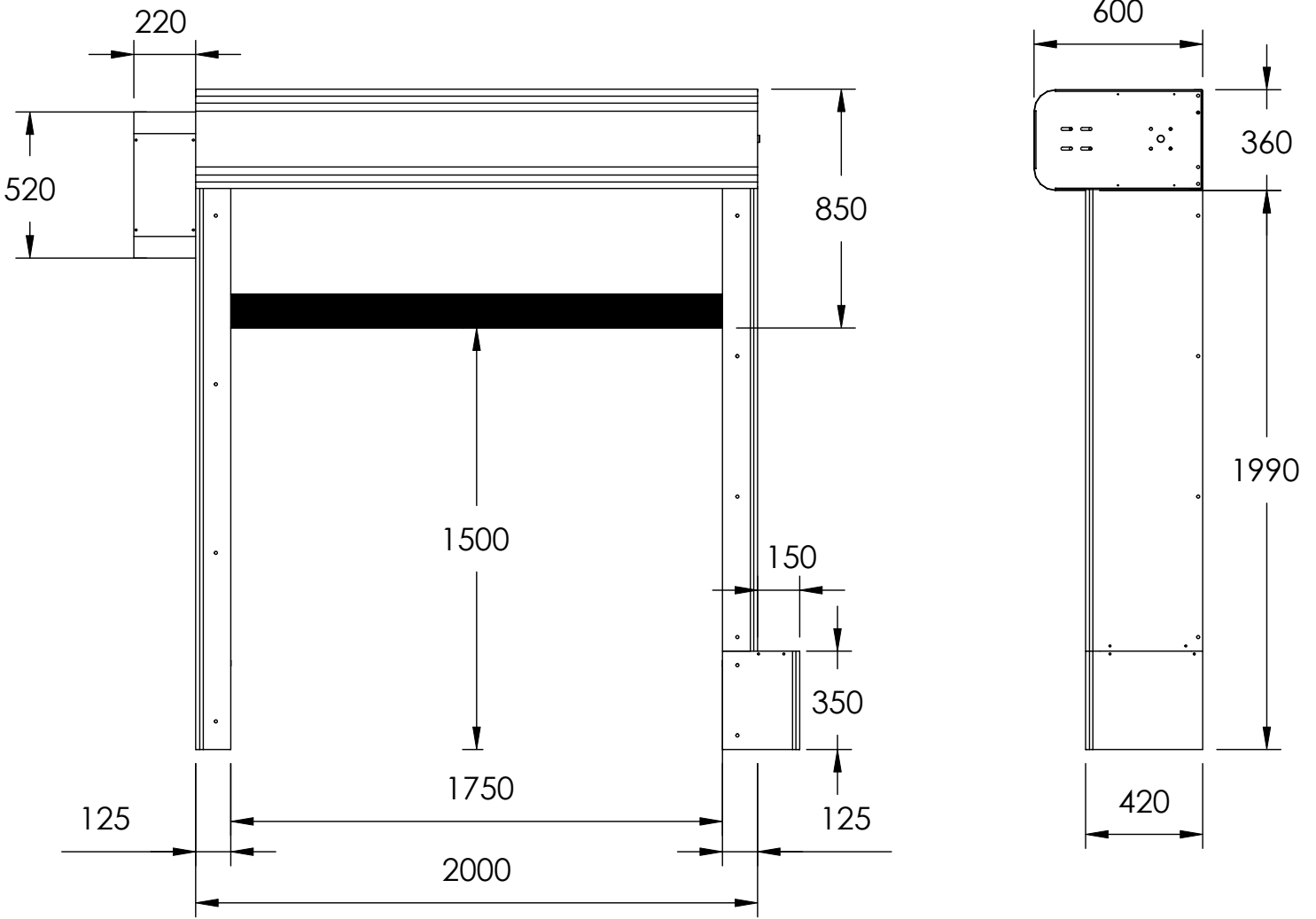


Refrigeration industry

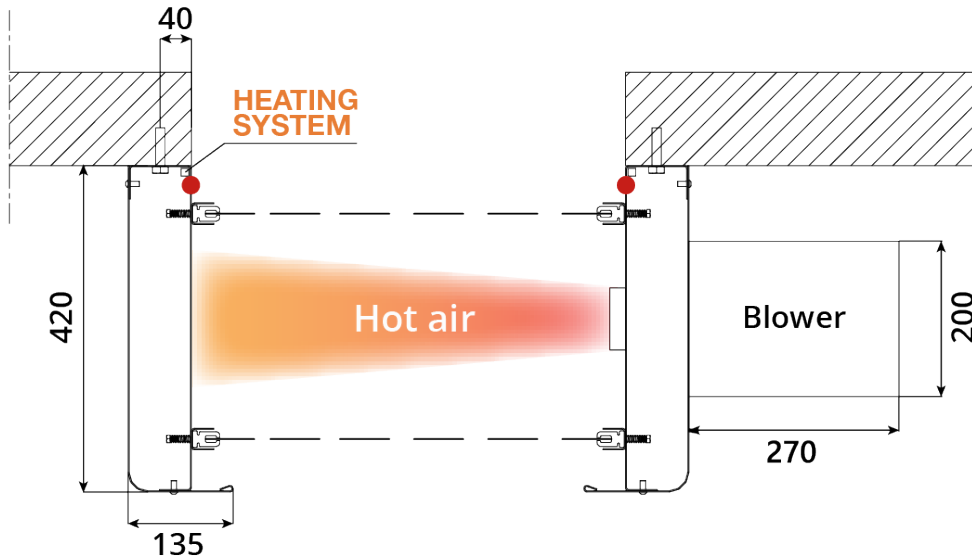


Ideal to manage high temperatures difference even without a humidity controlled system

DOOR SPACE REQUIREMENTS



FIXING DETAILS



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



 Antistatic available

FDA (Food Drug Administration) certified pvc available

INSULATED PVC

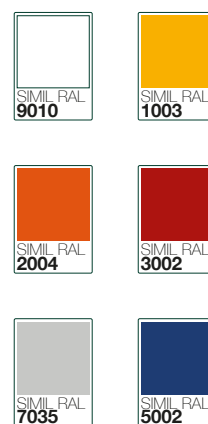
Composition and tests

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



CRISTAL CHARACTERISTICS

PVC SUPERCLEAR

! SUITABLE ONLY FOR POSITIVE TEMPERATURE ENVIRONMENTS

WINDOWS - CRISTAL

TECHNICAL DATA

Article	SUPERCLEAR 1.2 mm FR
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Technical specifications	Standards	Unit	Values
Thickness	-	mm.	1.2
PVC total weight	-	g/m ²	1200
Light transmission	JIS K - 7361	%	97.3
Tensile strength <i>Lengthwise MD</i>	JIS K - 6732	N	26.1
Tensile strength <i>Crosswise TD</i>	JIS K - 6732	N	24.3
Tear strength <i>Lengthwise MD</i>	JIS K - 6732	N	63.4
Tear strength <i>Crosswise TD</i>	JIS K - 6732	N	63.9
Elongation <i>Lengthwise MD</i>	JIS K - 6732	%	377
Elongation <i>Crosswise TD</i>	JIS K - 6732	%	378
Cold crack resistance	JIS K - 6772	°C	-45

OPTIONAL ACCESSORIES

RADAR



OPENING POINT
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

Dal 1997 prodotto di qualità

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