



HIGH
SPEED
DOORS



PACK

TECHNICAL DATA



DOUBLE MOTORS



WIND RESISTANCE
Up to **160 km/h**



SAFE



LOW MAINTENANCE



FOLDING TECHNOLOGY

MAXIMUM DIMENSIONS	W 20.000 mm x H 15.000 mm *
SPEED	Max opening speed Up to a 1 m/s
	Closing speed 1 m/s
CYCLES TEST	1.000.000
WIND RESISTANCE	Standard Class 2 up to 35 m ² further on project till Class 4
STRUCTURE	Self-supporting
FRAME / MOTOR COVER HOOD	Standard Galvanized steel
	Optional • Powder coated steel • Stainless steel 441/304/316
CURTAIN	Standard PVC curtain fabric 900 gr/m ²
	Optional • Translucent 35/40% • FDA (white) • Antistatic • Insulated
CONTROL PANEL	Standard Powder coated steel box IP54 (300 x 500 x 150 mm)
	Optional • Stainless steel • PVC box (300 x 400 x 150 mm)
	Contactors
	Thermal modular protection
	Power supply 3-ph, 3-230V
	Power supply 3-ph, 3-400V
	Start/ Stop button
	Emergency stop button
IP rating for motor and control panel IP54	
SAFETIES	Standard Photocells set IP65 WiFi safety edge IP65
	Optional Multi ray light curtain barrier H2500 IP67
EMERGENCY OPENING	Standard Hand crank
	Optional Counterweight system Chain system
ADVISING OPERATIVE TEMPERATURE	Operating till - 30 C°+ 70°C - Not apt to be installed in negative/positive temperature

Our **PACK** door is a fold up door composed by perimeter self-supporting frame in galvanized steel and a PVC curtain reinforced with horizontal steel bars to assure a wind resistance up to 160 Km/h. The curtain is lifted by strong belts and collected at the top of the opening. The patented conical guides give to the **PACK** a low air permeability and a good performance in case of high wind load. Aimed for heavy industry, the **PACK** door is suitable for all kind of industries. Perfect for internal and external applications, for big openings and designed for a long life. **PACK** is the right solution in case of strong wind and depressions.



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 0
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/m ² K
PERFORMANCE (CYCLES)	EN 12604	EN 12605	1.000.000

Values can change depending on door dimensions

* Dimensions depending on required wind resistance

ADVANTAGES



- Wind resistance (up to **160 km/h**)
- Working in depression / pressure up to **120 km/h**
- Basic automation



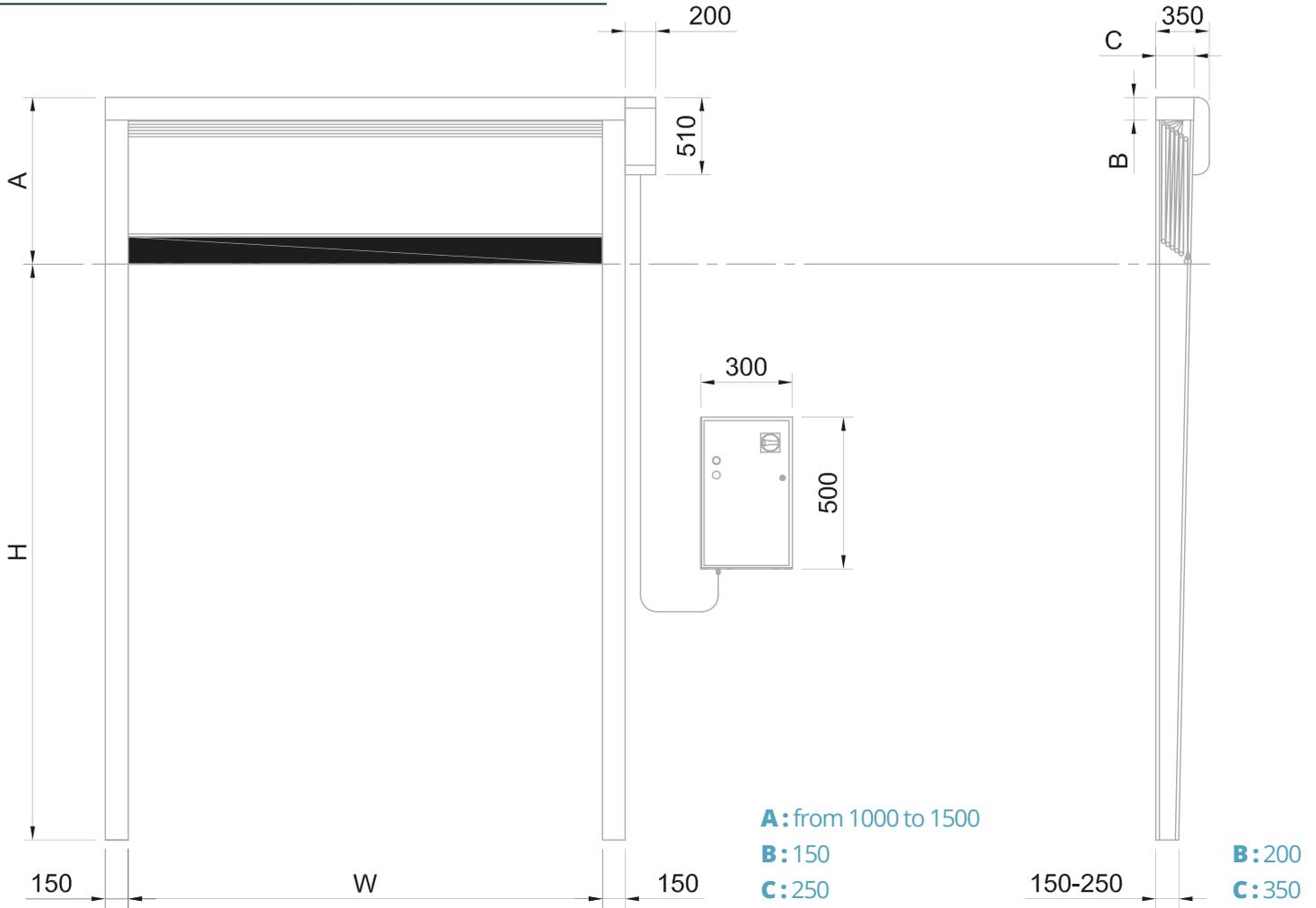
Coat stiffening /
lifting system

APPLICATIONS

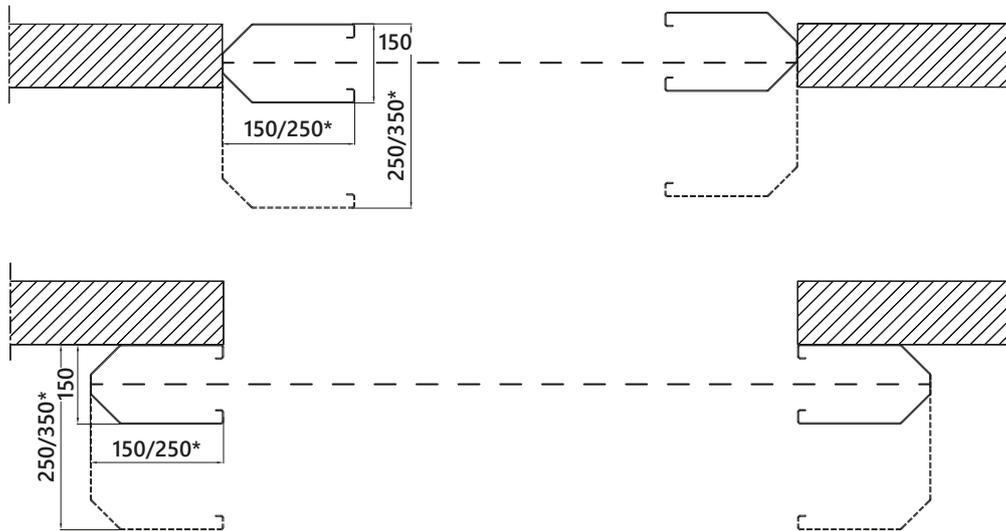
- Crane door
- Waste treatment
- Industry
- Heavy industry
- Agriculture
- Chemical
- Shipyard
- Airport



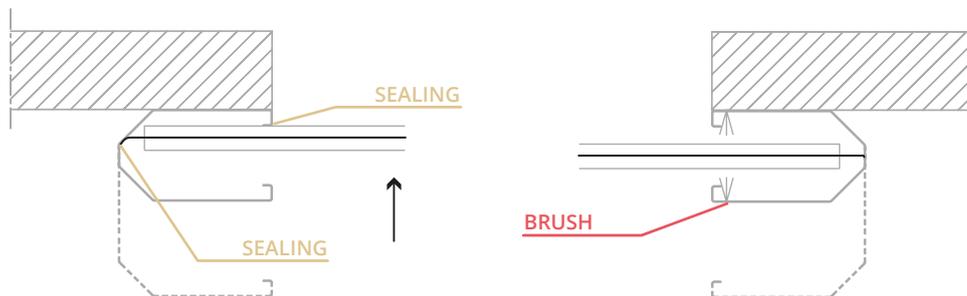
DOOR SPACE REQUIREMENTS



FIXING DETAILS



SEALING SYSTEM



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

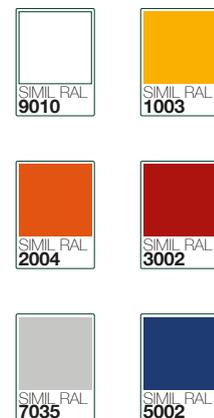
Composition and tests

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



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

Quality products since 1997

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