



HIGH
DOORS



DYNASEAL

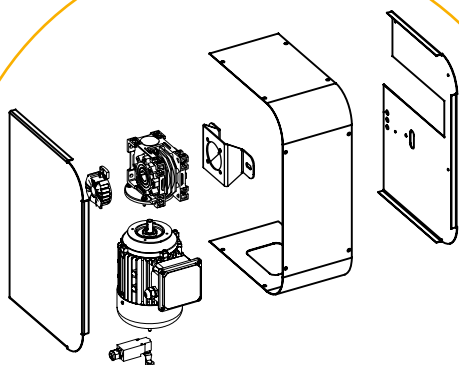


CHARACTERISTICS

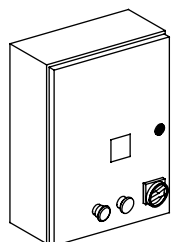
Transom composed of:

- Back side 20/10 galvanized steel and front cover 15/10 galvanized steel.
- Option : powder coated 180 micron

Magnetic sealing gasket

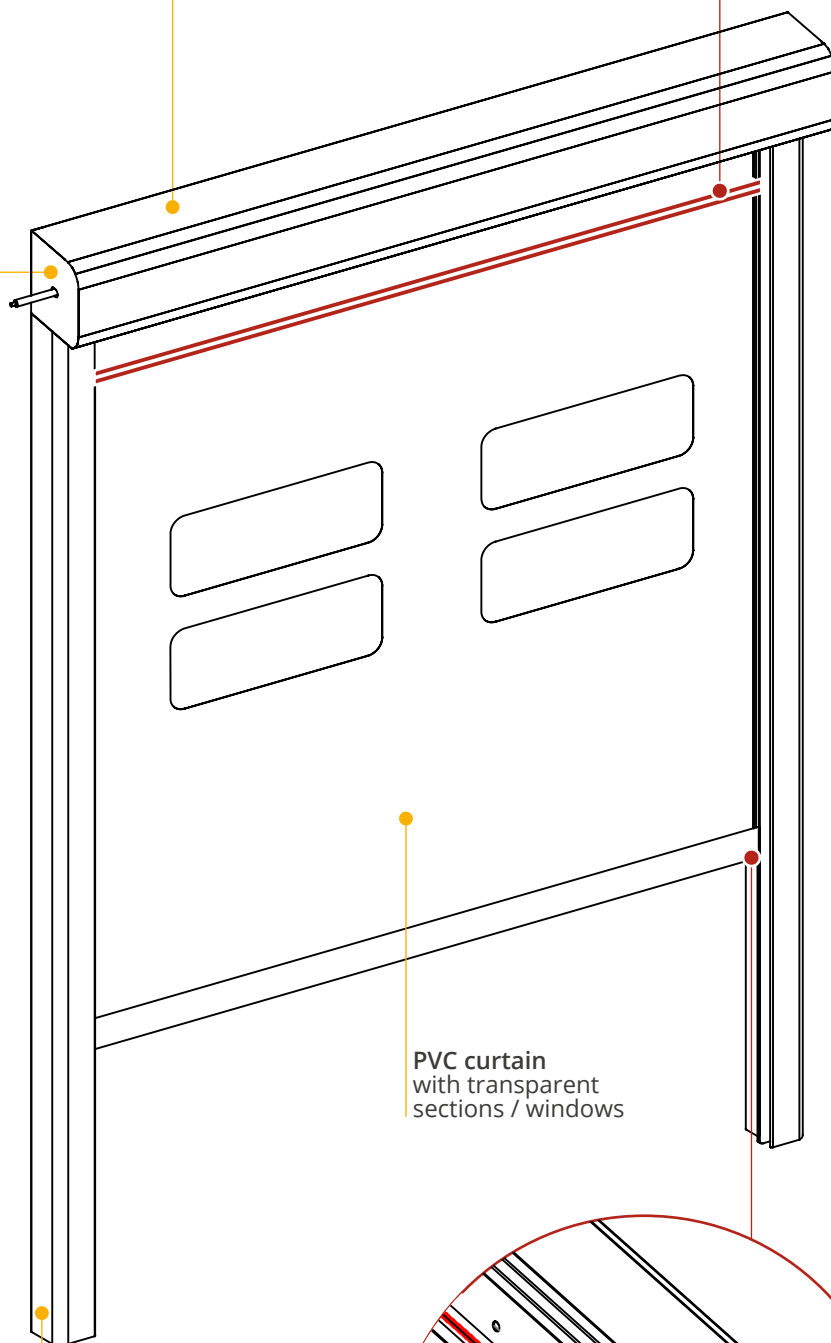


Threephases motors
230/400V in direct drive.
- Absolute encoder



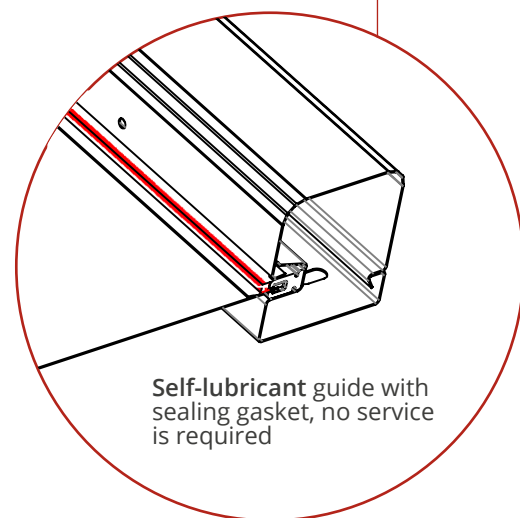
Inverter control box

- Painted metal box Dim. 300x500x130
- Emergency stop button
- Switch ON-OFF
- Single phase Inverter control card max power 2.2 kW
- Threephases Inverter control card max power 4kW
- Cables with connector M8/M12 IP65
- Status/Error display
- Automatic closing
- Position relay
- Interlock function
- Supplementary function (see instruction manual)



PVC curtain
with transparent sections / windows

Side columns with extruded black polyethylene profile (1'000'000 molecules)



Self-lubricant guide with sealing gasket, no service is required

TECHNICAL DATA



LOW PERMEABILITY



STERILE ENVIRONMENT



SELF-REPAIRING



OXYGEN-REDUCED ENVIRONMENTS



CONTROLLED PRESSURE ENVIRONMENTS



WIND RESISTANCE
CLASSE 5
CLASS 5



GRAVITY TECHNOLOGY

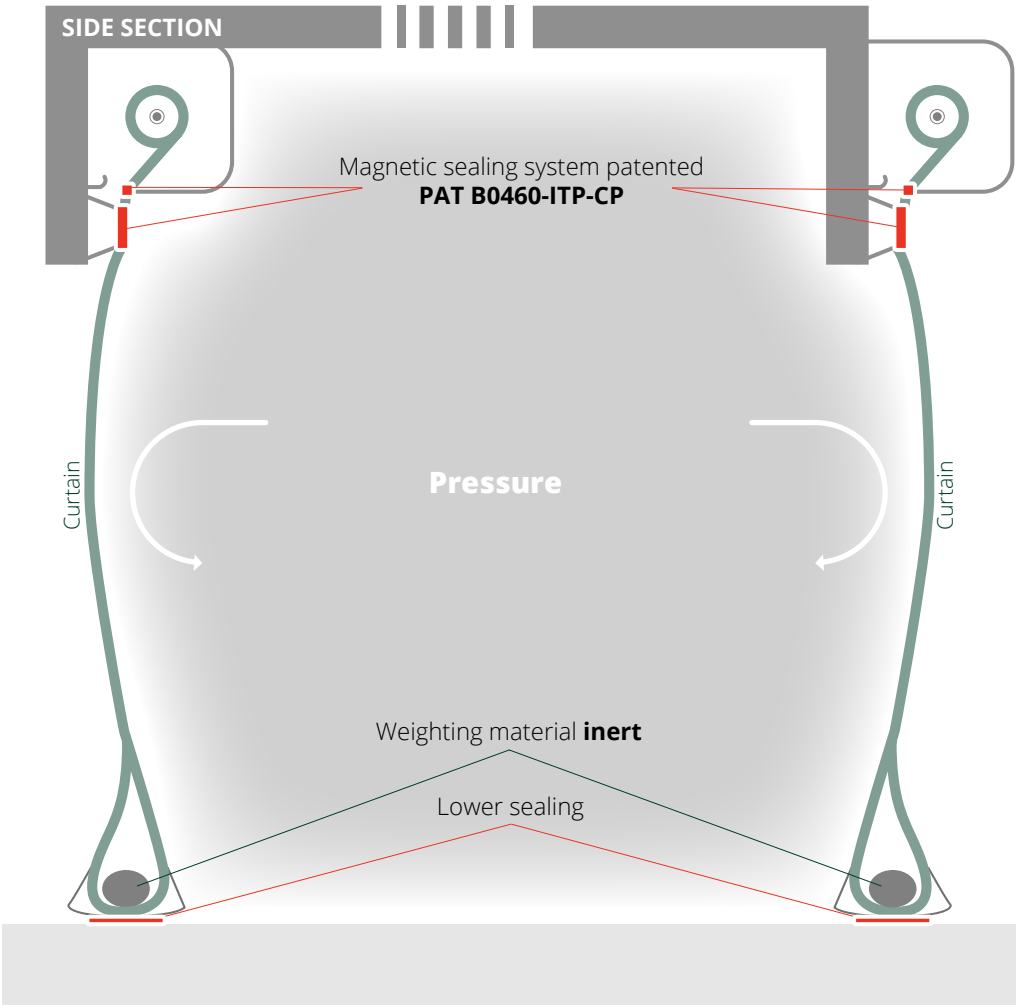
Dynaseal is a self-repairing door conceived and designed for environments for fruit ripening and for premises for smoking meat thanks to its sealing system. Thanks to its special compact frame and the sliding system, this door has a low permeability to be suited for controlled environments. The Dynaseal door guarantees wind resistance up to class 5.



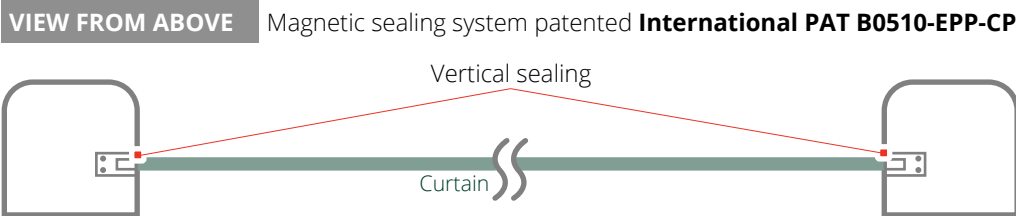
FUNCTIONING	AUTOMATIC
CYCLES PER HOUR	> 200
CYCLES TEST	1.000.000
SPEED	2,5 m/s
WIND RESISTANCE* differential pressure	Class EN 12424
WIND SPEED DURING DOOR OPENING	< 20 m/s (60 km/h)
SOUNDPROOFING standard	15 dB Rw (ISO 717)
WATER RESISTANCE	0,11 kPa for door closed Class 3 - EN12426
AIR PERMEABILITY	Class 5 - EN 12426:2001
OPERATING TEMPERATURE OPERATING ENVIRONMENT	-10°C to +70°C

*This door, according to the regulations 13241/CE, requires an half-yearly check

SEALING SYSTEM



TEST DATA WITH PRESSURE Door dimension 3500 (L) x 3000 (H) UNI EN 12427:2002			
Pa	m³/h	-Pa	m³/h
10	4,82	-10	9,80
20	6,30	-20	10,68
30	13,35	-30	14,48
40	11,64	-40	19,12
50	12,67	-50	19,91



UNI EN 12426:2001

CLASSIFICATION: The air permeability of an evidence shall be declared according to the given classes in Table 1.
An evidence belongs to a specific class, if the test results measured respecting the EN 12427 do not exceed the value specified for that class in Table 1.

TABLE 1 - Air permeability classes

Class	Air permeability Δp at a pressure of 50 Pa [m³/mh]	Specification
0	-	No benefits determined
1	24	-
2	12	-
3	6	-
4	3	-
5	1,5	-
6	-	Exceptional; agreement between manufacturer and buyer for infiltration and pressure

NOTES Where conditions greater than 50 Pa are applied, the situation must be considered exceptional and greater than class 5 and should be the subject of contractual approval between manufacturer and purchaser.

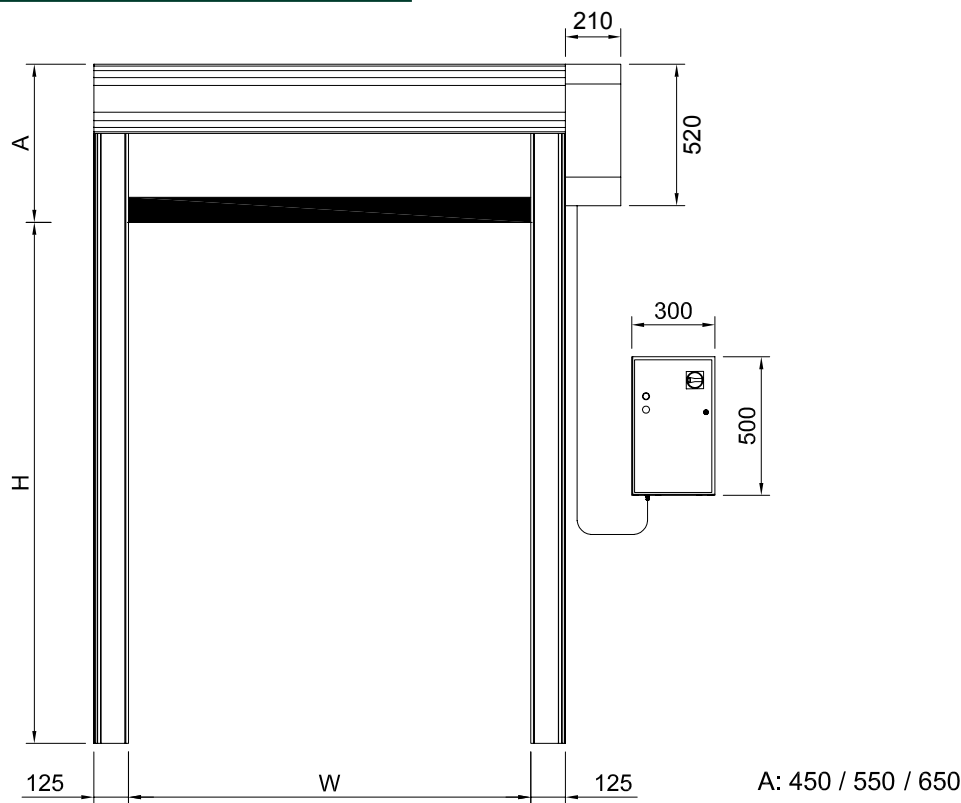
UNI EN 12427:2002

- TEST PREPARATION**
- The evidence shall be installed in accordance with the manufacturer’s published or referenced installation instructions.
 - The evidence shall consist of components that conform in detail to the manufacturing quality level. Wherever possible the evidence should be set up from scratch. Doors and components in stock shall be considered as newly manufactured if they comply fully with current manufacturing specifications.
 - The evidence must be clean and with the surfaces dry.
 - Any ventilation, drainage or discharge holes shall be taped shut or left open according to the purpose of the test and this purpose and condition shall be noted and recorded.
 - In most instances, air can pass through both fixed and opening gaps.
 - For minimum evidence dimensions see Table 1

PROSPECTUS

	Minimal evidence dimensions
Commercial and garage doors	Width: 2 000 mm Height: 2 000 mm
Industrial doors	Width: 3 500 mm Height: 3 000 mm

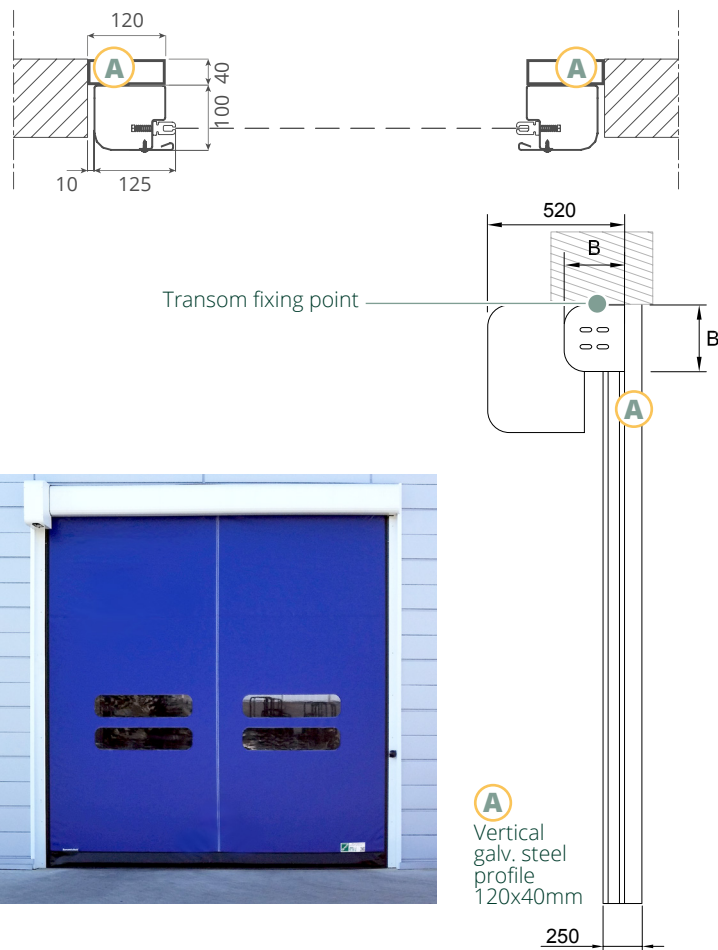
OVERALL DIMENSIONS



MOUNTING METHOD

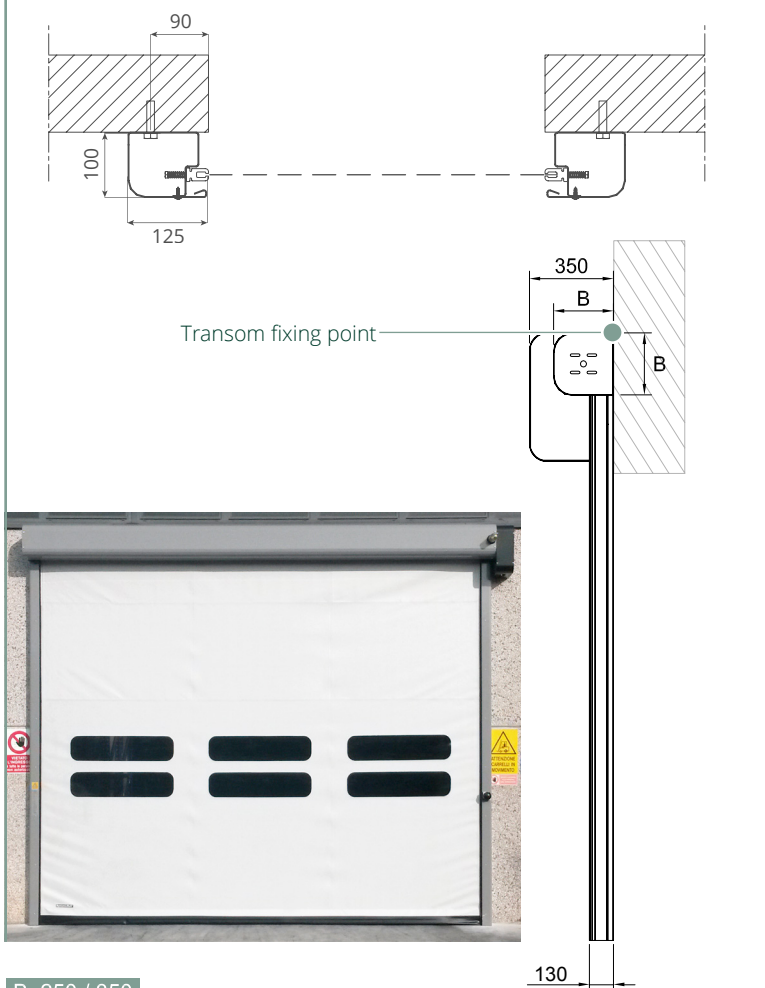
Reveal fit mounting

In case of reveal fit, columns must be supported by 120x40 vertical galvanized steel profile supplied with the door. It's possible to mount the frontal motor.



Face fit mounting

In case of face fit, columns are fixed direct to the existing wall. Make sure there is an appropriate support.



PVC CHARACTERISTICS

STANDARD PVC

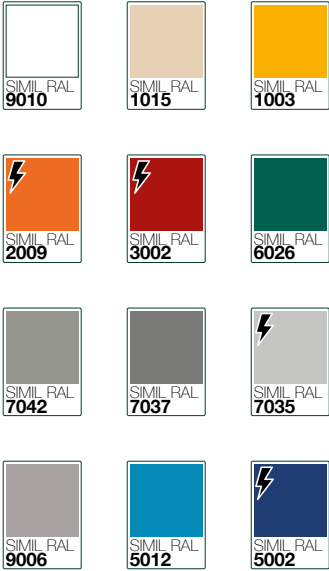
Composition and tests

EXTERNAL SIDE			
Material	Finishing	Color	Thick
PVC	Opaque	12 standard	0,7 mm
FABRIC			
Material	N. tarps	Title	EN 2286-2
PES	1	1100Dtex 12x12	900 g/m²
INTERNAL SIDE			
Material	Finishing	Color	Thick
PVC	Rough	12 standard	0,2 mm
COLD RESISTANCE ISO 4675/90 -50°C ±5			
HYDROLYSIS TEST 75°C 95% humidity none variation			
GAS OIL TEST ISO 1421 none variation			
MARINE WATER TEST (ISO 1421) 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/m²) 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 53 363 (N) > 600
TEXTURE BREAK dIN 53 363 (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

INSULATED PVC

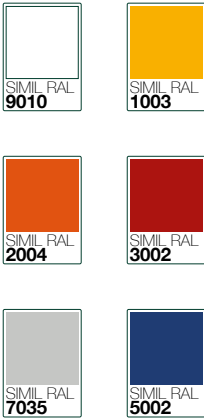
Composition and tests

EXTERNAL SIDE			
Material	Finishing	Color	Thick
PVC	Straight	4 standard	0,5 mm
FABRIC			
Material	N. tarps	Title	EN 2286-2
PES	1	1100Dtex 12x12	1350 g/m²
INTERNAL SIDE			
Material	Finishing	Color	Thick
PVC	Sponge	4 standard	7 mm
COLD RESISTANCE ISO 4675/90 -10°C ±5			
HYDROLYSIS TEST 75°C 95% humidity none variation			
GAS OIL TEST ISO 1421 none variation			
MARINE WATER TEST (ISO 1421) 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/m²) 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 53 363 300 N
TEXTURE BREAK dIN 53 363 300 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

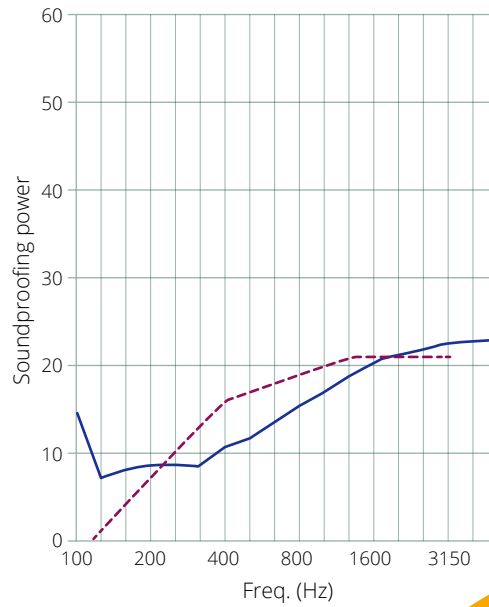


MEASUREMENT OF SOUNDPROOFING POWER R - UNI EN ISO 10140-2 - UNI EN ISO 717-1

	Source	Receiver
Volume (m³)	86,0	70,5
Temp. (°C)	21,0	21,0
Volume (m³)	86,0	70,5
FREQ. Hz	R dB	U dB
100	14,9	1,8
125	7,5	1,7
160	8,2	1,5
200	8,7	1,6
250	8,8	1,3
315	8,6	1,2
400	10,7	1,2
500	11,7	1,1
630	13,5	1,1
800	15,4	1,1
1000	16,9	1,0
1250	18,8	1,0
1600	20,4	1,0
2000	21,2	1,0
2500	21,8	1,0
3150	22,6	1,0
4000	22,9	1,0
5000	23,0	1,0
Rw	17 dB	
C	-1 dB	
Ctr	-3 dB	
K	2,00 - 95%	

Evaluation according to ISO 717-1 in the band 100 ÷ 3150 Hz based on laboratory measurements

SAMPLE AREA S = 1,50 m²



CRISTAL CHARACTERISTICS

PVC SUPERCLEAR

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/m²	1200
Ligth transmission	JIS K - 7361	%	97.3
Tensile strength <i>Lenghtwise MD</i>	JIS K - 6732	N	26.1
Tensile strength <i>Crosswise TD</i>	JIS K - 6732	N	24.3
Tear strength <i>Lenghtwise MD</i>	JIS K - 6732	N	63.4
Tear strength <i>Crosswise TD</i>	JIS K - 6732	N	63.9
Elongation <i>Lenghtwise MD</i>	JIS K - 6732	%	377
Elongation <i>Crosswise TD</i>	JIS K - 6732	%	378
Cold crack resistance	JIS K - 6772	°C	-45
Flame retardancy	-	-	sì
Hardness	-	-	4.0S
Standard length	-	m	30
Standard width	-	m	1.37

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



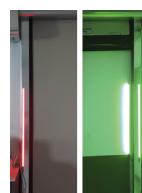
GREEN FIXED STANDARD
traffic light



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



WIND
GAUGE



KEY
SELECTOR



REMOTE
CONTROL



BOLLARD
B-PROTECT



PULL CORD
SWITCH



MAGNETIC LOOP
DETECTOR

Quality products since 1997

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