

HIGH  
SPEED  
DOORS



DynamicRoll



**DynamicRoll®**

# TECHNICAL DATA



SELF-REPAIR



SAFE



HERMETIC



HIGH SPEED



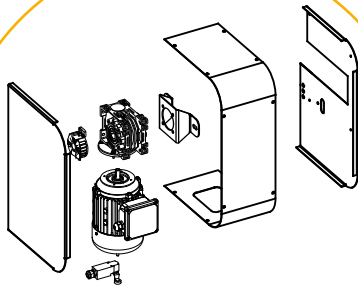
GRAVITY TECHNOLOGY

**DYNAMICROLL®** is a self-repairing roll up door designed to reach different kinds of applications, both internal and external, allowing the traffic flows and assuring high safety.

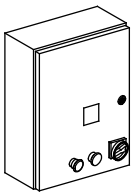


MAXIMUM DIMENSIONS	W 8000 mm x H 8000 mm
FUNCTIONING	AUTOMATIC
CYCLES PER HOUR	> 200
CYCLES TEST	1.000.000
SPEED	Up to 2,5 m/s
OPTIONAL SPEED	Up to 3 m/s
WIND RESISTANCE* <i>DIFFERENTIAL PRESSURE</i>	Ut to Class 4 EN 12424
WIND SPEED DURING DOOR OPENING	< 20 m/s (60 km/h)
SOUNDPROOFING <i>STANDARD</i>	15 dB Rw (ISO 717)
WATER RESISTANCE	0,11 kPa for <i>door closed</i> Class 3 - EN12426
OPERATING TEMPERATURE <i>OPERATING ENVIRONMENT</i>	-10°C to +70°C

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

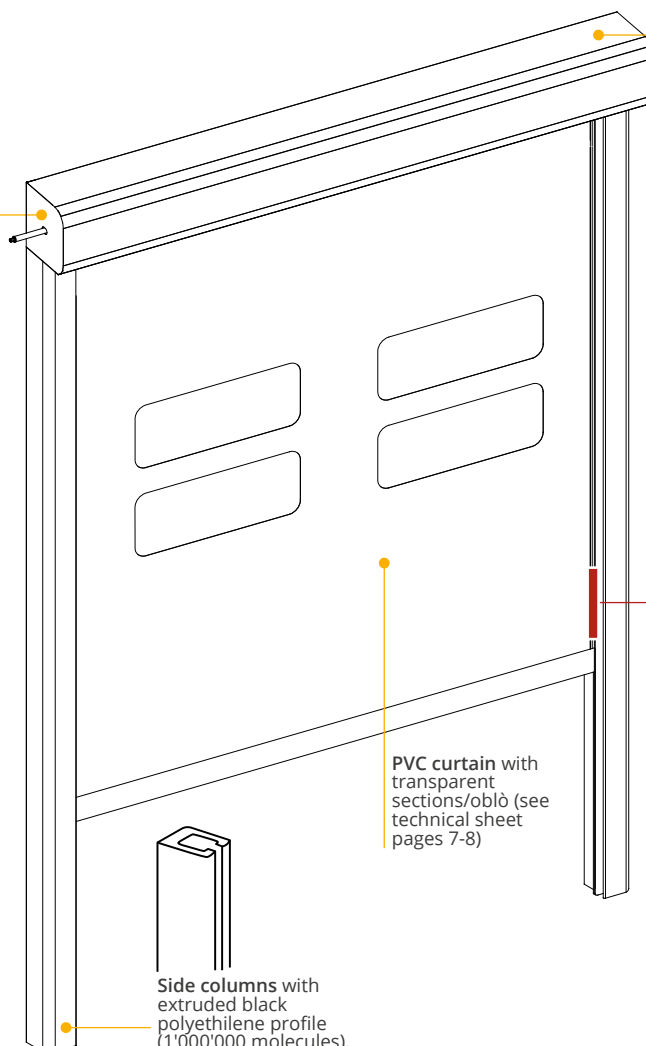


Threephases motors  
230/400V in direct drive.  
- Absolute encoder



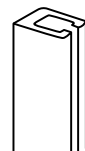
Inverter control box :

- 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)

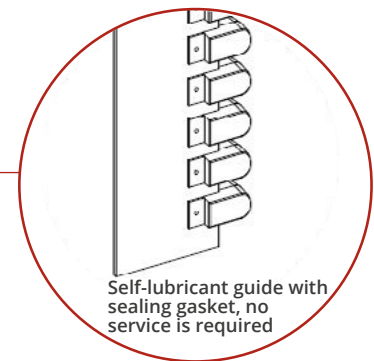


Transom composed by back side 20/10 galvanized steel and front cover 15/10 galvanized steel.  
Option : powder coated 180 micron

PVC curtain with transparent sections/oblò (see technical sheet pages 7-8)



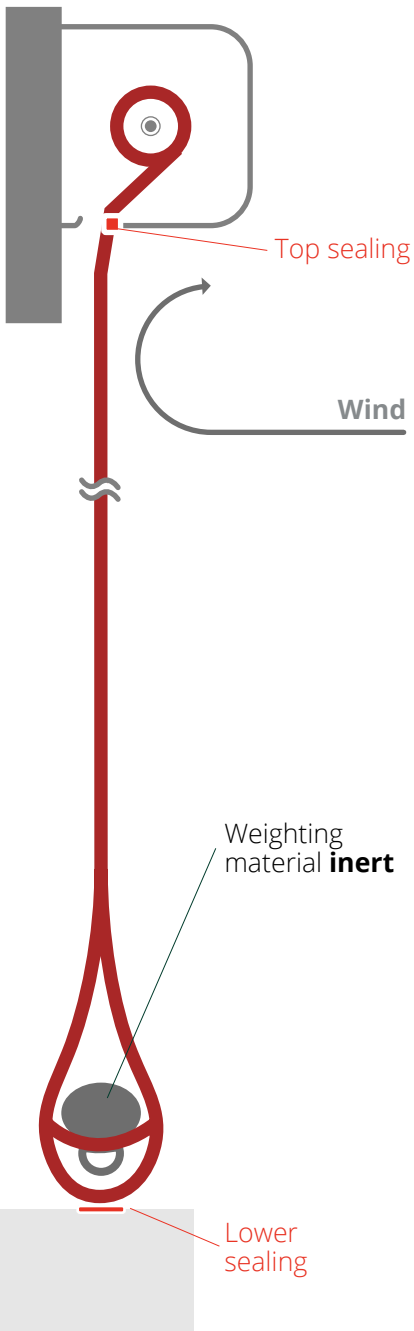
Side columns with extruded black polyethylene profile (1'000'000 molecules).



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

# SEALING SYSTEM

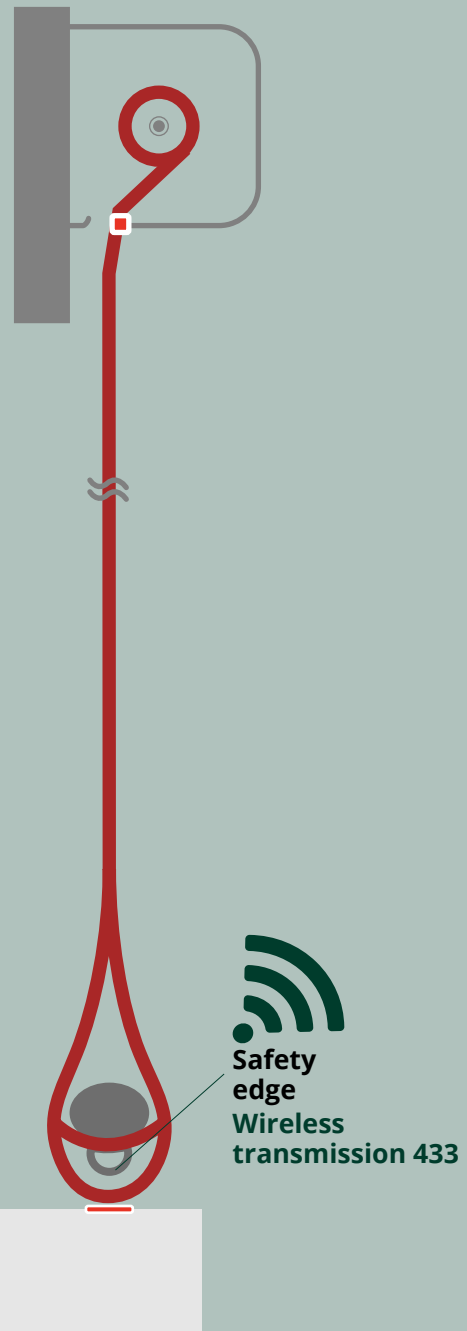
## SIDE SECTION



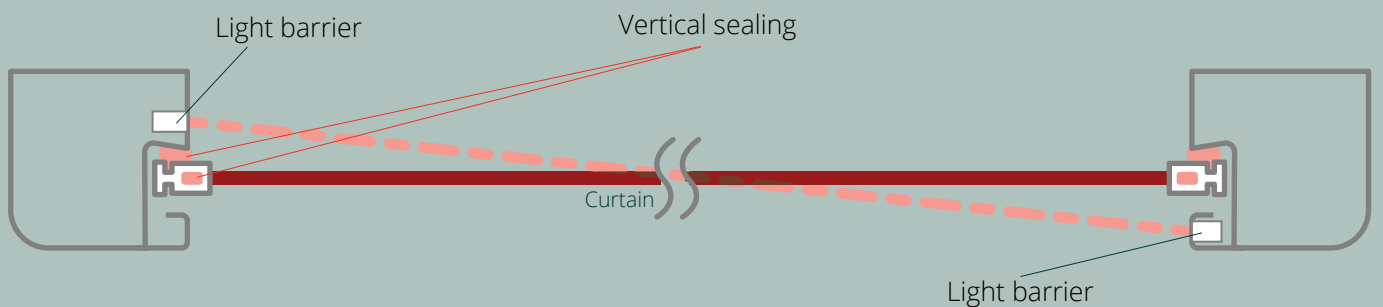
# SAFE SYSTEM

## 1 Wireless option

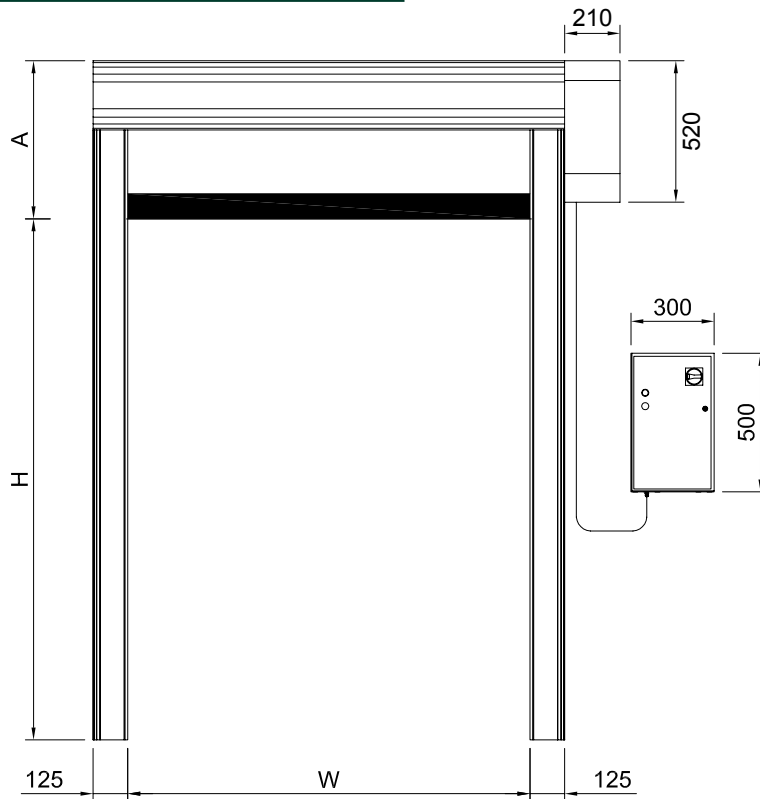
## SIDE SECTION



## 2 Light barriers



# OVERALL DIMENSIONS

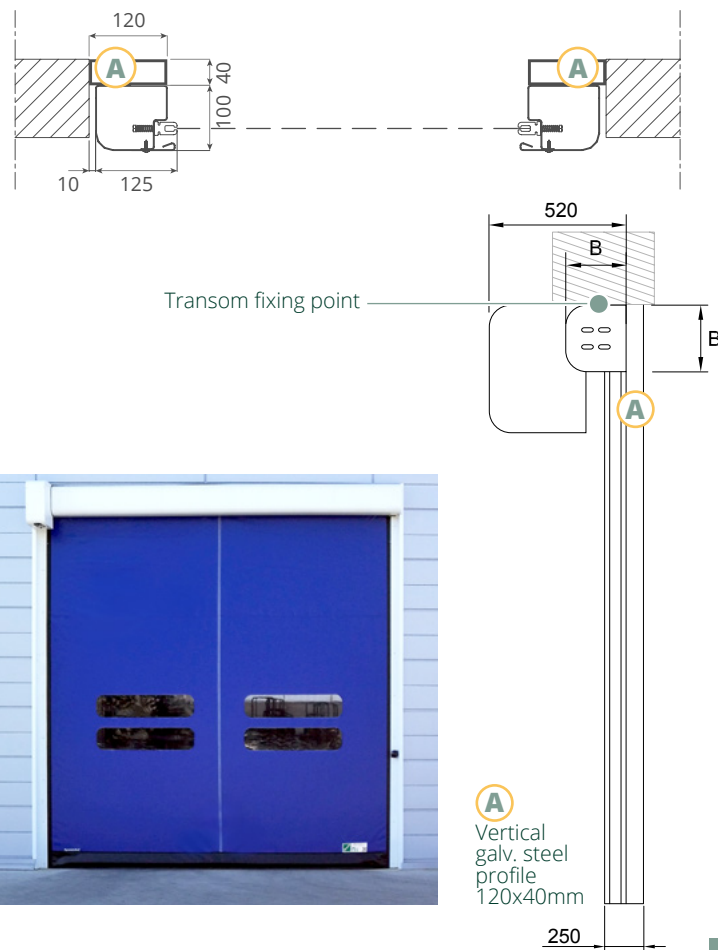


A: 450 / 500 / 550 / 650

## 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.

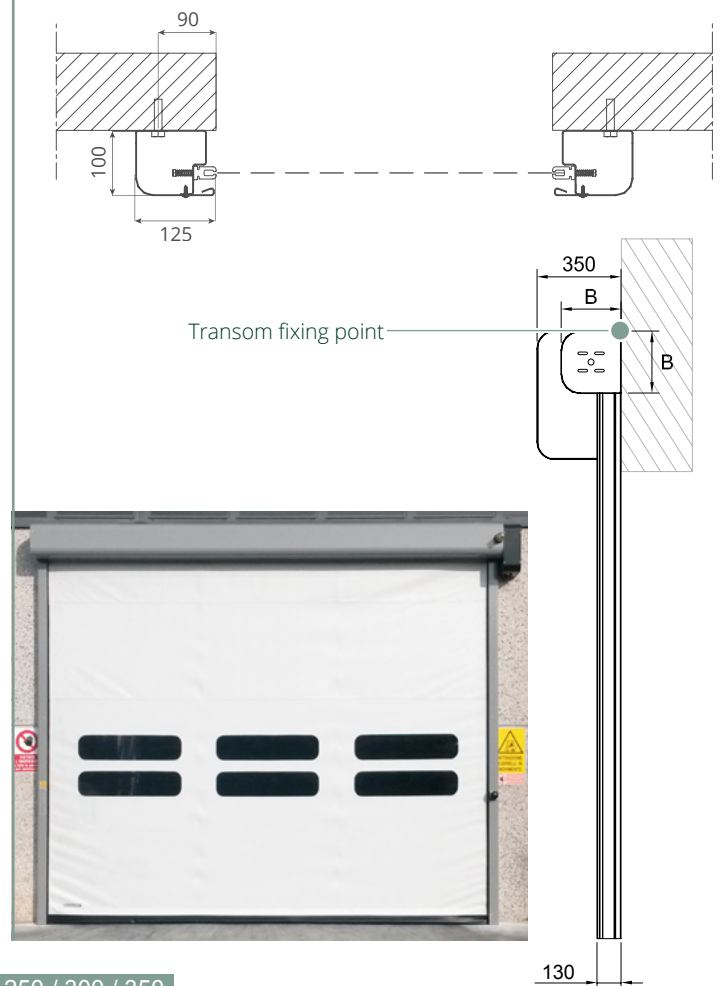


**A**  
Vertical galv. steel profile 120x40mm

250

### Face fit mounting

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



B: 250 / 300 / 350

130

# PVC CHARACTERISTICS

## STANDARD PVC

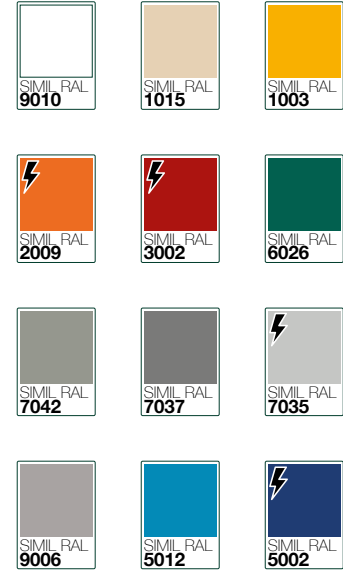
### Composition and tests

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/m <sup>2</sup>
INTERNAL SIDE			
Material	Finishing	Color	Thick
PVC	Rough	12 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> ISO 1421 none variation			
<b>MARINE WATER TEST</b> (ISO 1421) 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 53 363 (N) > 600
<b>TEXTURE BREAK</b> dIN 53 363 (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



⚡ Antistatic available

## INSULATED PVC

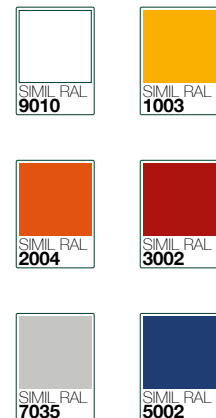
### Composition and tests

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/m <sup>2</sup>
INTERNAL SIDE			
Material	Finishing	Color	Thick
PVC	Sponge	4 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> ISO 1421 none variation			
<b>MARINE WATER TEST</b> (ISO 1421) 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 53 363 300 N
<b>TEXTURE BREAK</b> dIN 53 363 300 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> -

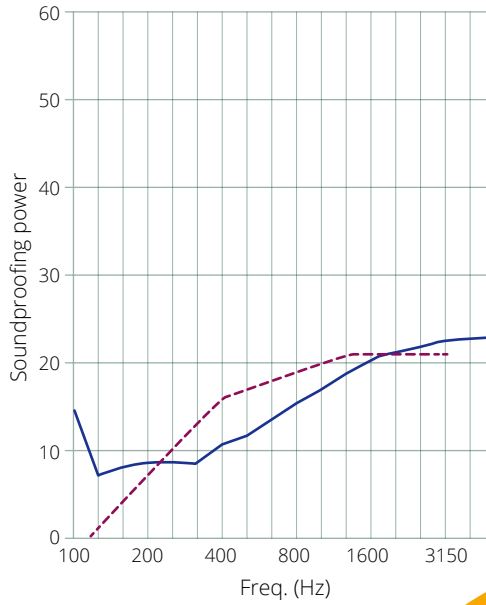
### Colors



**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%	

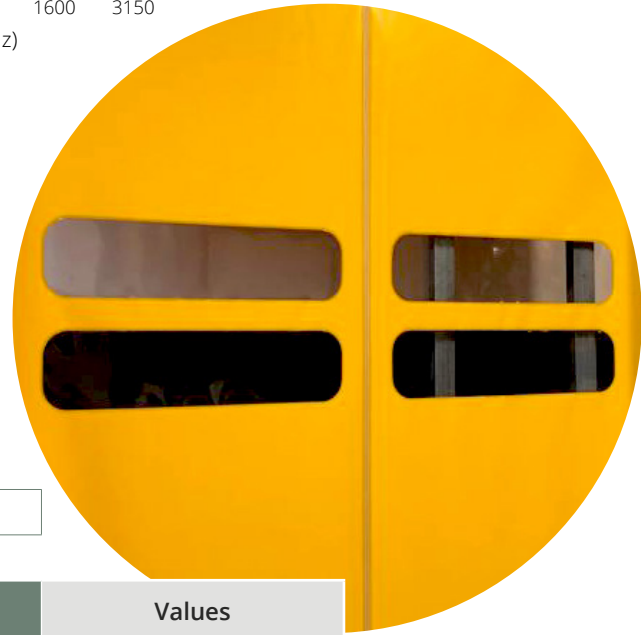
**SAMPLE AREA**  
S = 1,50 m²



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

# 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	-	-	si
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



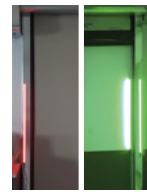
GREEN FIXED STANDARD  
traffic light



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



WIND  
GAUGE



KEY  
SELECTOR



REMOTE  
CONTROL



BOLLARD  
B-PROTECT



PULL CORD  
SWITCH



MAGNETIC LOOP  
DETECTOR



*Quality products since 1997*

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