

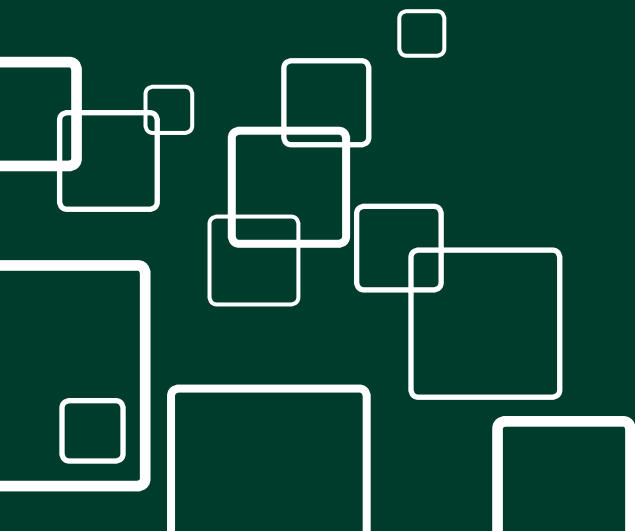
HIGH  
SPEED  
DOORS



Arelli

# MEGAPACK 200

TIM-DYR rev. 06/2018



# TECHNICAL DETAILS

## Megapack 200

FEATURES	
<b>Maximum dimensions*</b>	W 14000 mm x H 12000 mm
<b>Door thickness</b>	200 mm
<b>Type of curtain</b>	Standard: polyester (Covering in PVC plasticised) Optional: for low temperatures, soundproofing, heat resistant, safety
<b>Color</b>	10 standard colors
<b>Material of vertical columns</b>	Galvanized steel
<b>Windows</b>	Windows *Option
<b>Seals</b>	Bottom and top seals / along columns with brushes
<b>Operation</b>	Standard: electric motor Optional: automatic operation, access control, security features

*\*possibility of different sizes on request*

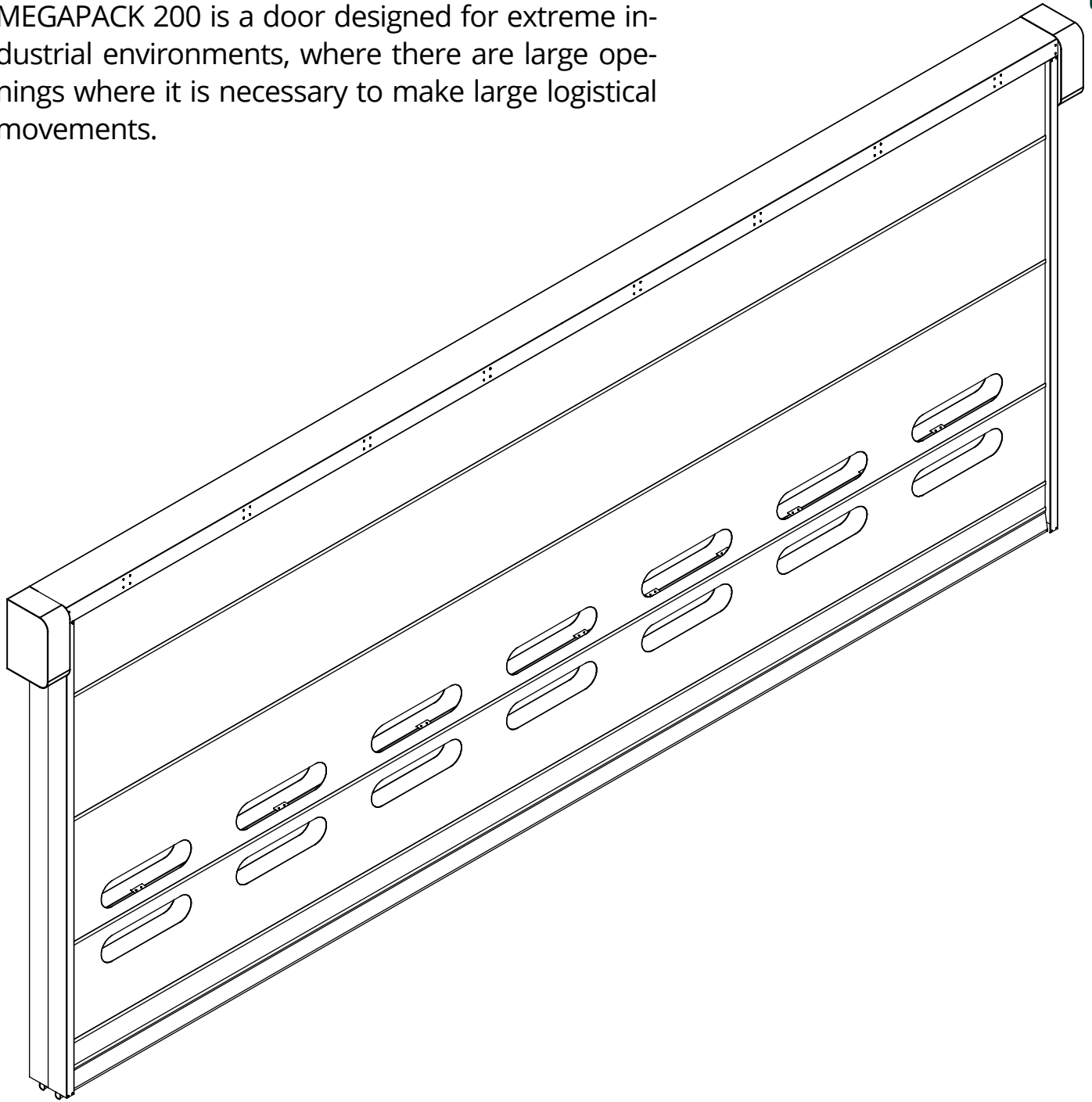
PERFORMANCE	
<b>Speed</b>	- up to 0,8 m/s (depending on size)
<b>Wind resistance* (differential pressure)</b>	0.45 – 1.6 kPa, depending on size (Class 2– 5, EN 12424)
<b>Wind speed, in dynamic mode</b>	60 km/h
<b>Soundproofing (standard)</b>	15 dB Rw (ISO 717)
<b>Water resistance</b>	0,11 kPa (for closed door) (Class 3, EN 12426)
<b>Air permeability</b>	Class 1, EN 12426
<b>Operating ambient temperature</b>	-35°C to +70°C

*\*higher wind resistance on request*

# MEGAPACK 200

## Features

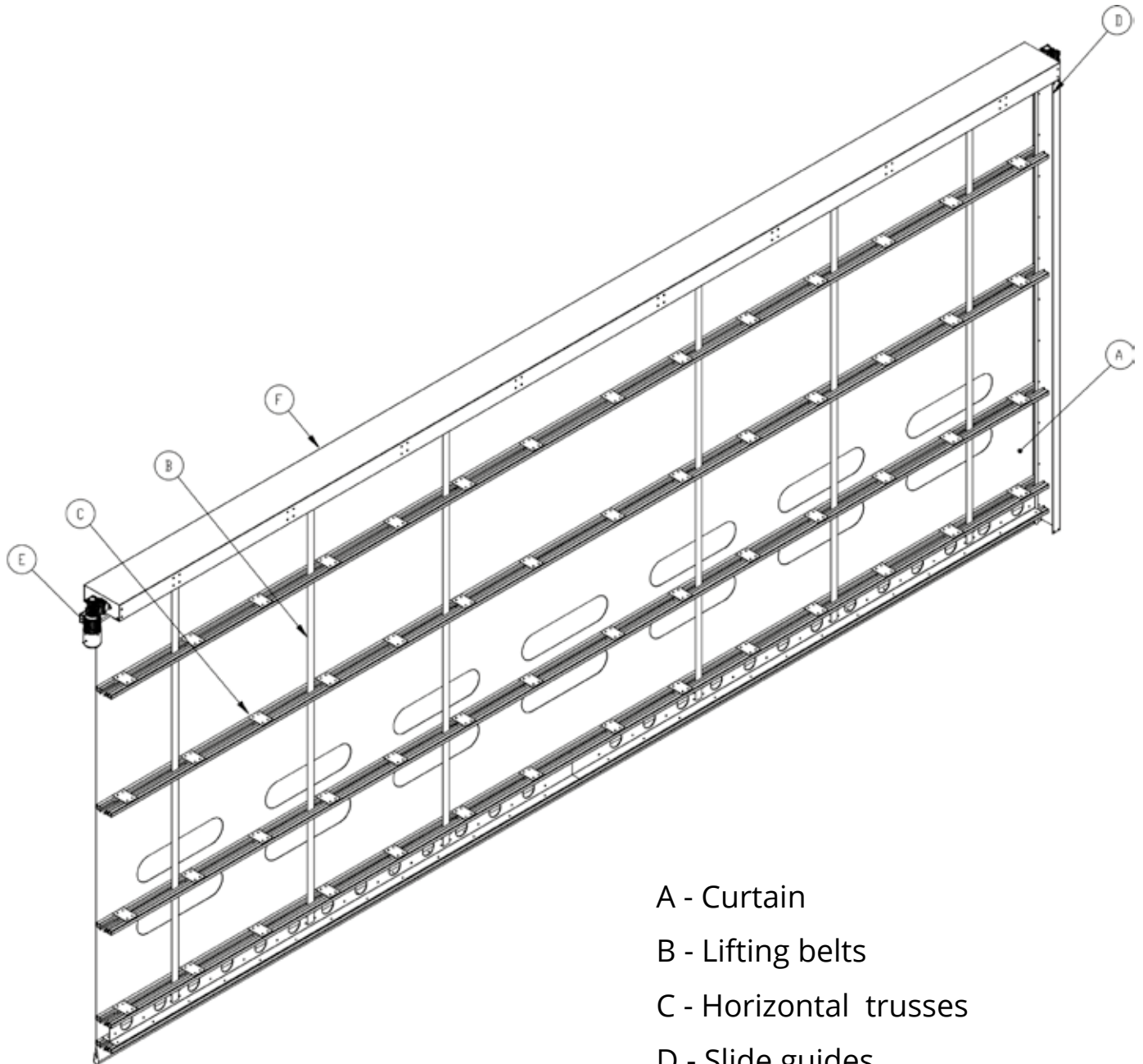
MEGAPACK 200 is a door designed for extreme industrial environments, where there are large openings where it is necessary to make large logistical movements.



The product guarantees long life, energy savings, reliability with minimal maintenance.

Each door is designed individually to best adapt to the structure on which it must be installed and to ensure the requested wind resistance.

# MAIN COMPONENTS

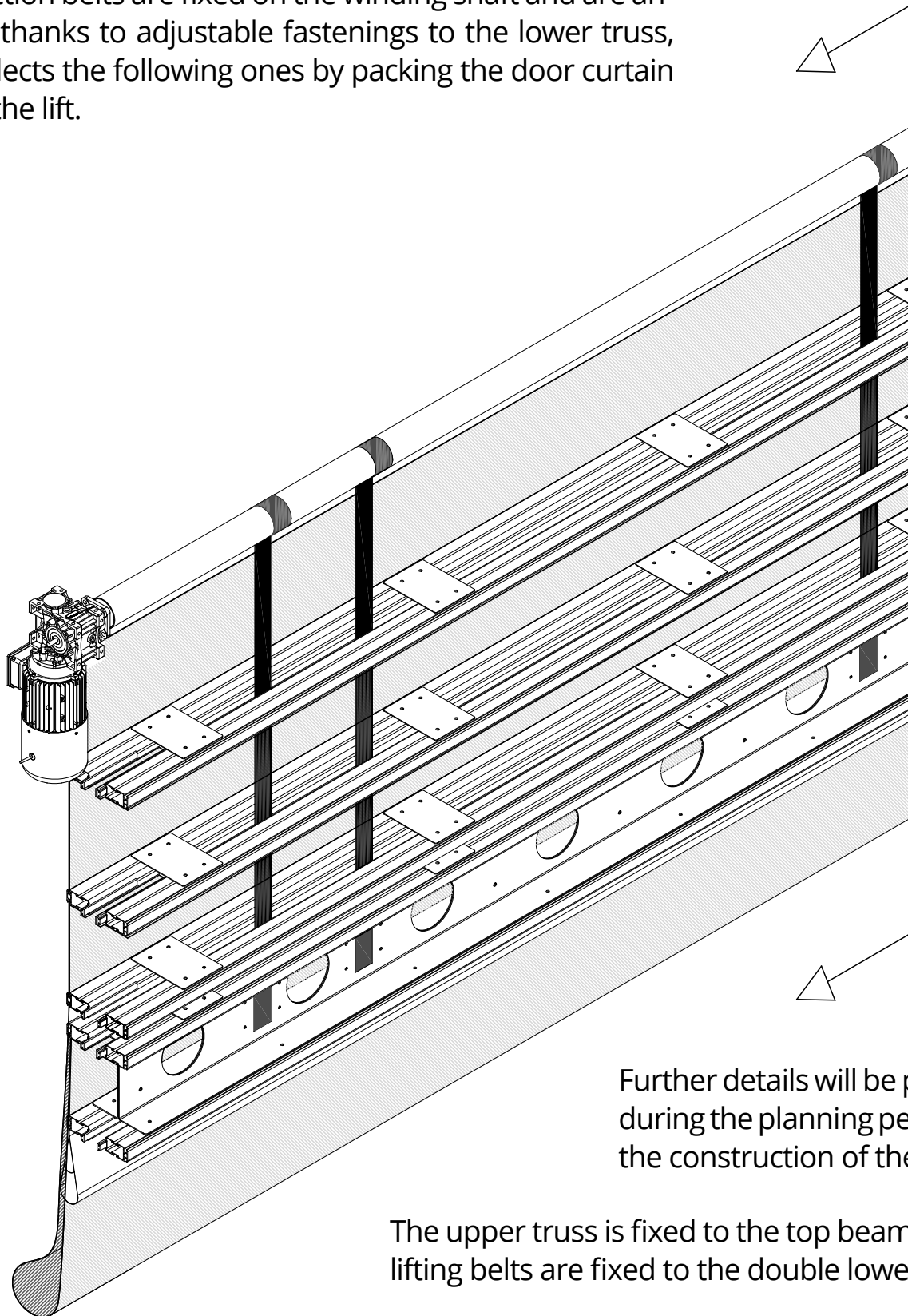


- A - Curtain
- B - Lifting belts
- C - Horizontal trusses
- D - Slide guides
- E - Gear drive unit
- F - Top beam
- G - Control panel

# OPERATION

## Opening and closing

The traction belts are fixed on the winding shaft and are anchored thanks to adjustable fastenings to the lower truss, that collects the following ones by packing the door curtain during the lift.

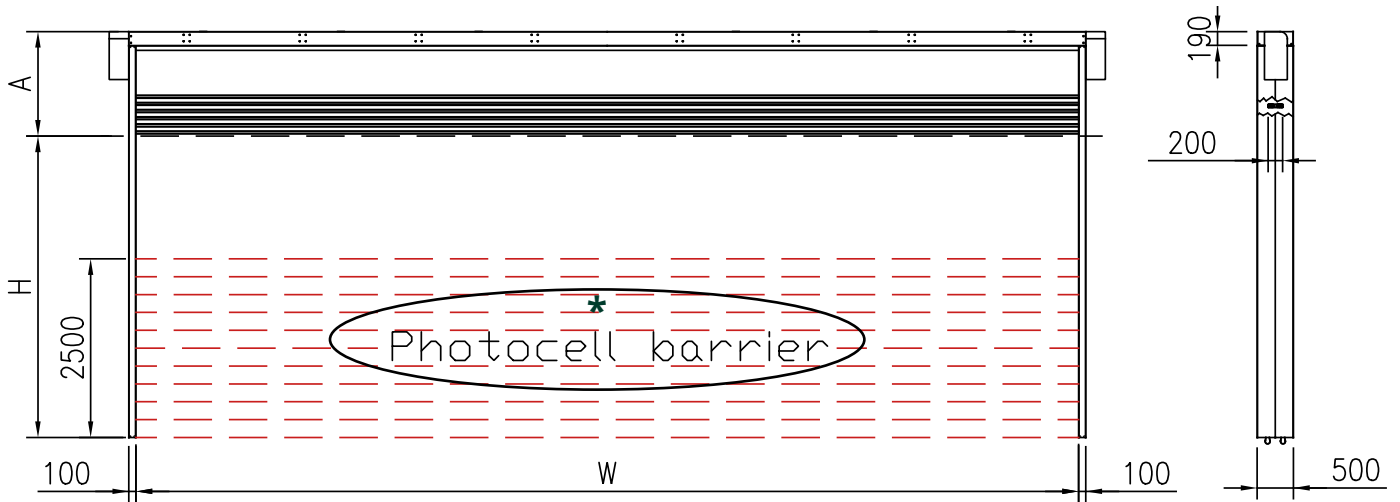


Further details will be provided during the planning period and the construction of the doors.

The upper truss is fixed to the top beam and the lifting belts are fixed to the double lower truss.

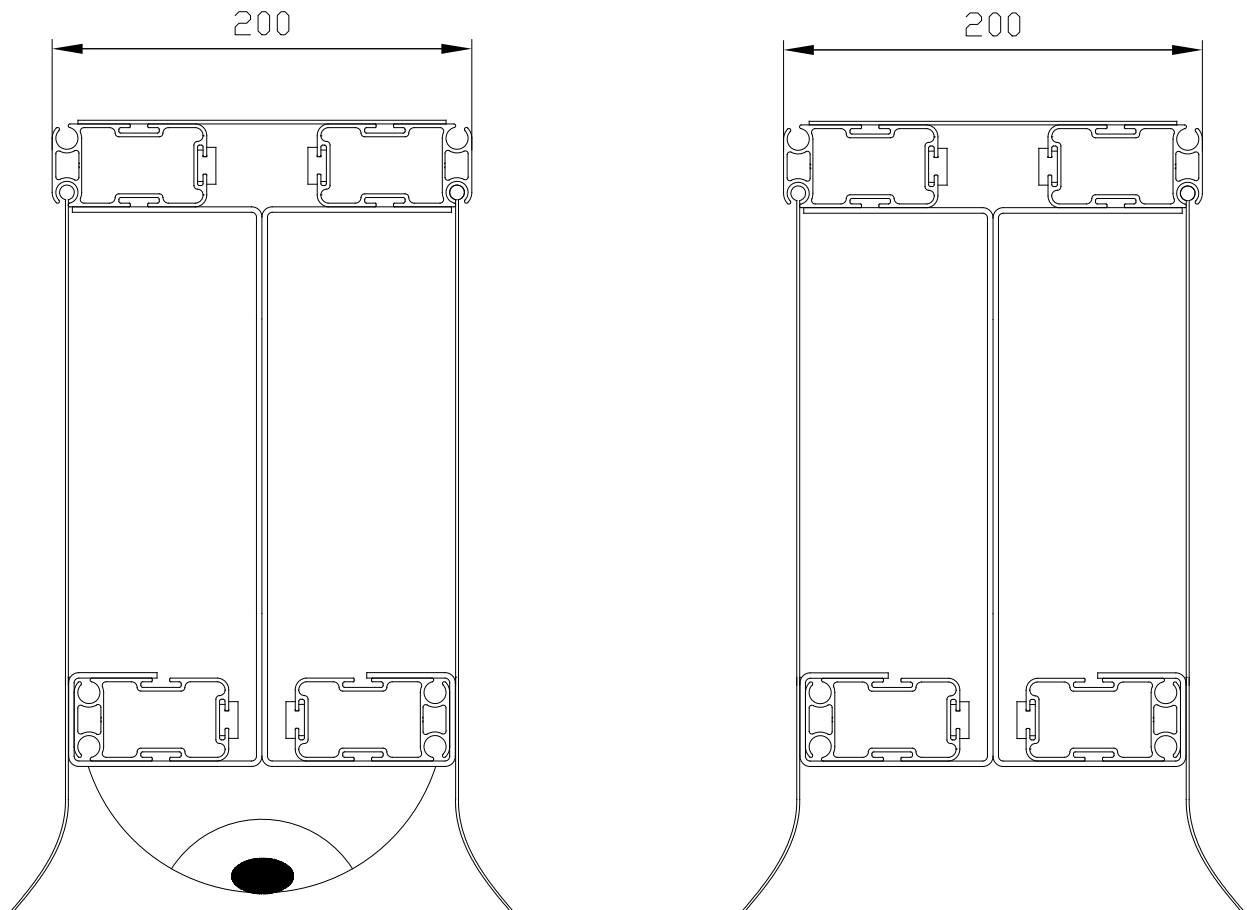
# DIMENSION

## Overall dimensions



\*Option

## SAFETY EDGE





# SAFETY

## Anti-fall

(A)

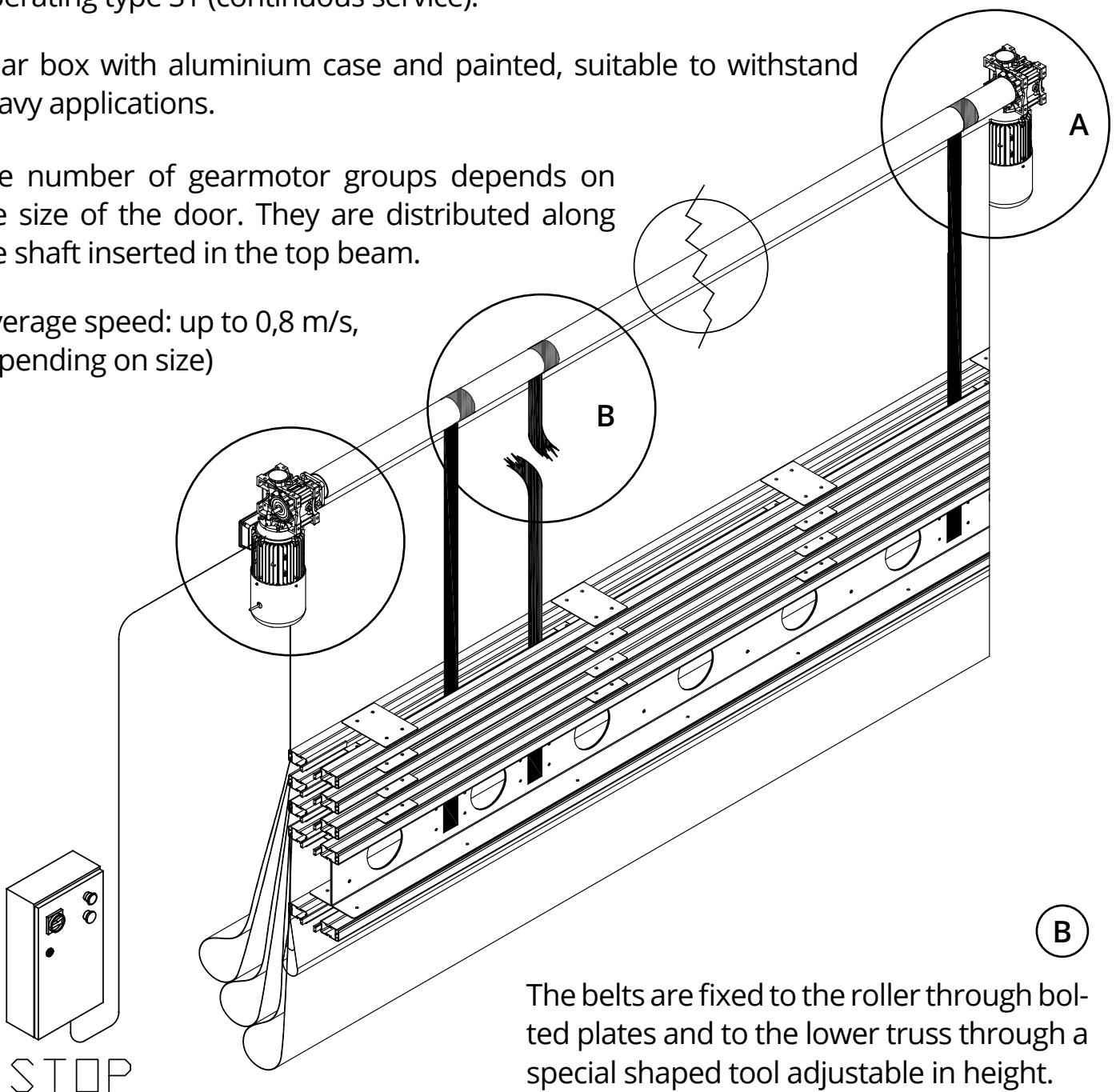
Ventilated self-braking three-phase motors powered by 400 V, dimensioned according to the size of the door and coupled to the belts roller through elastic joints.

Operating type S1 (continuous service).

Gear box with aluminium case and painted, suitable to withstand heavy applications.

The number of gearmotor groups depends on the size of the door. They are distributed along the shaft inserted in the top beam.

(average speed: up to 0,8 m/s, depending on size)



The belts are fixed to the roller through bolted plates and to the lower truss through a special shaped tool adjustable in height.

The limits of the two belts have slots and are sewn with certified seam seal up to 1500kg each belt.

STANDARD  
CURTAIN

### Composition and tests

External side	Material finishing Color thick	PVC Opaque 12 standard (mm) 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 thickness	PVC Rough 12 standard (mm) 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
Ozono 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

Thickness	ISO 2286/3	(mm) 0,9±0,1
Weight	ISO 2286/2	(kg/m <sup>2</sup> ) 0,90±0,1
Tensile strenght warp	ISO 1421	6000 N/50mm
Elongation yarn	ISO 1421	4300 N/50mm
Elongation weft	ISO 1421	4000 N/50mm
Tear resistance warp	DIN 53 363	(N) > 600
Tear resistance weft	DIN 53 363	(N) > 530
Peeling test	DIN EN ISO 2411	130 N/50mm
CEE compliance	-	yes
Specific application	Industry, cold room, car washes, supermarkets ,stores	
Association	-	

INSULATED CURTAIN  
(optional)

### Composition and tests

External side	Material finishing Color thick	PVC straight 4 standard (mm) 0,5 mm
Fabric	Material n. plies yarn count (EN 2286-2)	PES 1 1100Dtex 12x12 1350 g/m <sup>2</sup>
Underside coating	Material Impression Color thickness	PVC sponge 4 standard (mm) 2,8
Cold resistance	(ISO 4675/90)	-10°C ±5
Tropical test	75°C 95% humidity	None variation
Diesel fuel test	(ISO 1421)	None variation
Sea water test	(ISO 1421)	None variation
Ozone test	(ISO 3011)	None crack
T storage	(°C)	-30 +65
Burning test	(ISO 3795)	cl 2, NFPA 701 test 2
Puncture	(RINA 3.A1.2.7)	(N) > 100
Ageing 7 days - 70°C	(ISO 6065)	None variation

### Characteristics

Thickness	ISO 2286/3	(mm) 3,3±0,1
Weight	ISO 2286/2	(Kg/m <sup>2</sup> ) 1,35±0,1
Tensile strenght warp	ISO 1421	6000 N/50mm
Elongation yarn	ISO 1421/V1	3000 N/50mm
Elongation weft	ISO 1421/V1	2800 N/50mm
Tear resistance warp	DIN 53 363	300 N
Tear resistance weft	DIN 53 363	300 N
Peeling test	PA 09.03 (interior)	15 N/cm
Thermal conductivity	-	0,0503 W.m <sup>-1</sup> . k <sup>-1</sup>
Index d'Isolation	-	Rw= 17,5 dB
Specific application	Industry, cold room, car washes, supermarkets ,stores	
Association	-	

## AVAILABLE COLORS

Simil RAL 9010 

Simil RAL 2008 

Simil RAL 7042 

Simil RAL 9006 

Simil RAL 1015 

Simil RAL 3002 

Simil RAL 7037 

Simil RAL 5012 

Simil RAL 1003 

Simil RAL 6026 

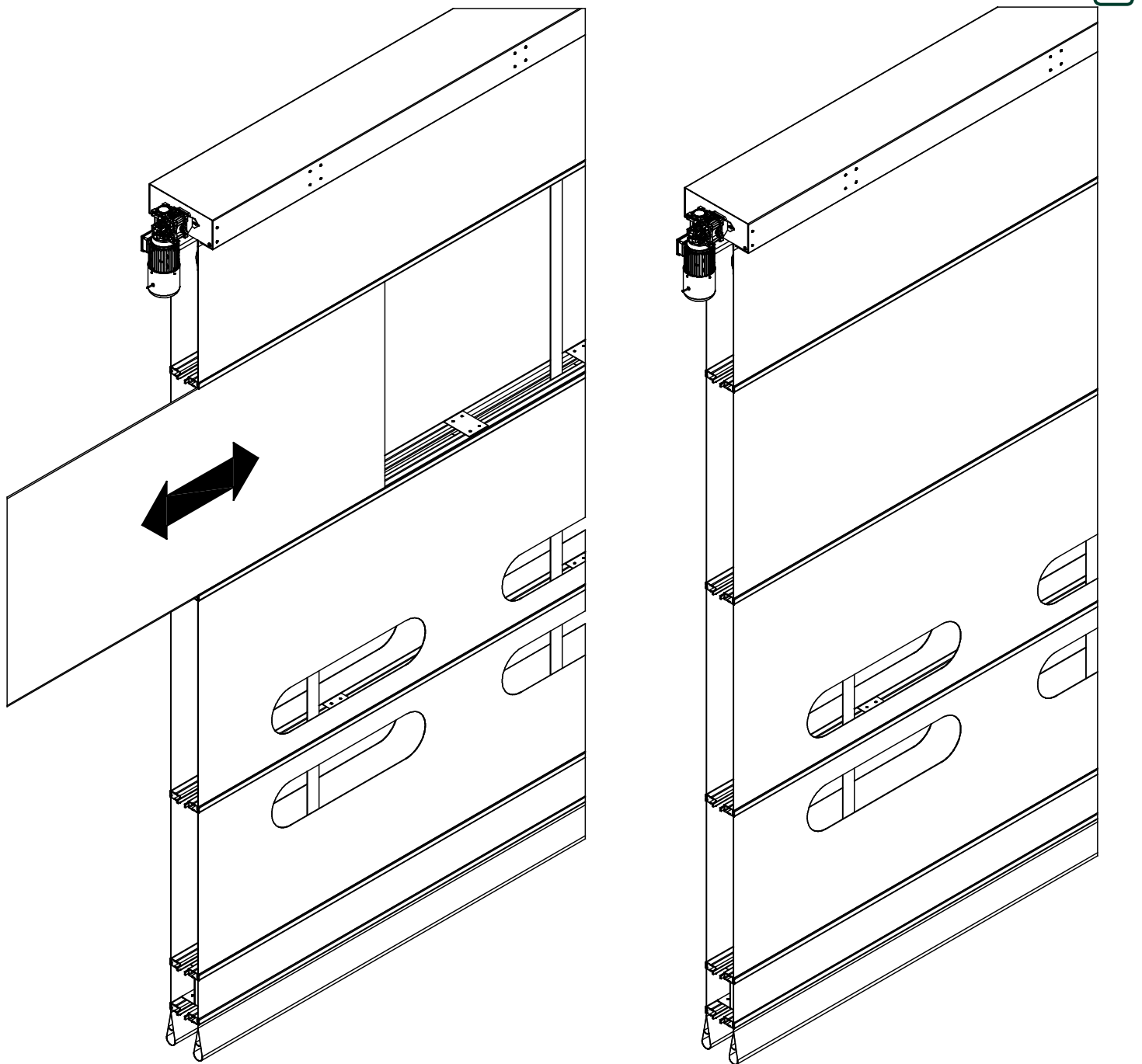
Simil RAL 7035 

Simil RAL 5002 



# MODULAR CURTAINS

## Interchangeable sectors



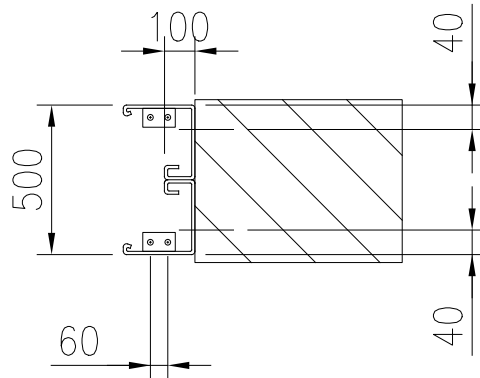
The curtain is composed by individual sectors inserted in double pointed profiles.

This system allows to replace the individual sector that shape the fabric in case of damage or wear without having to replace the entire curtain.

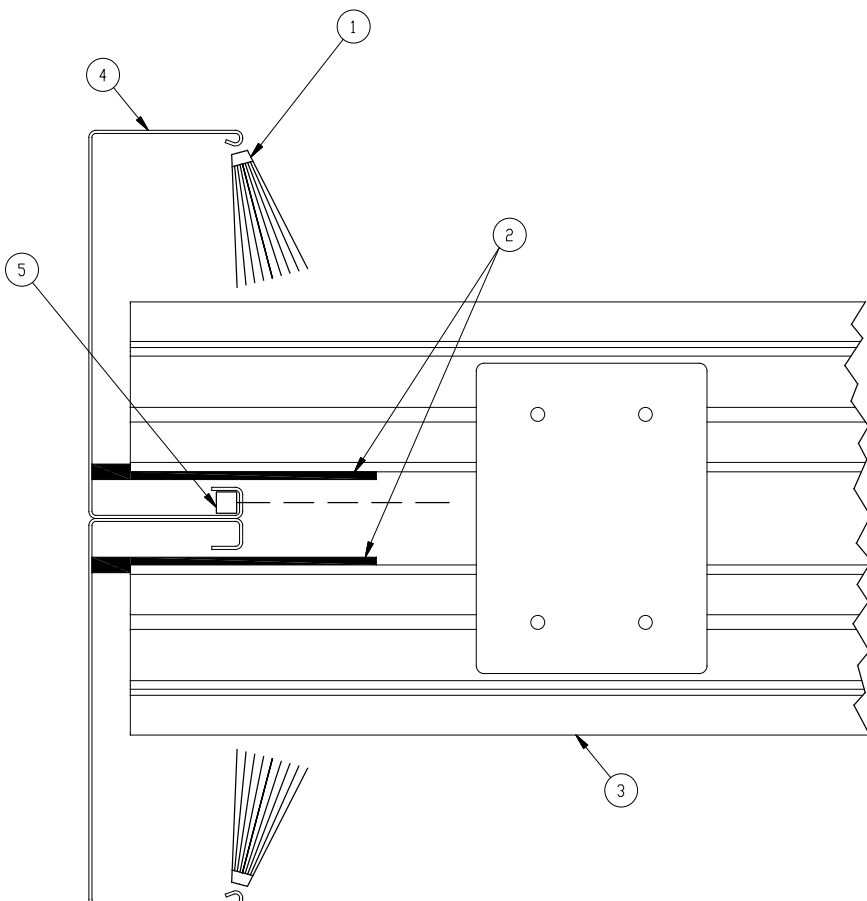
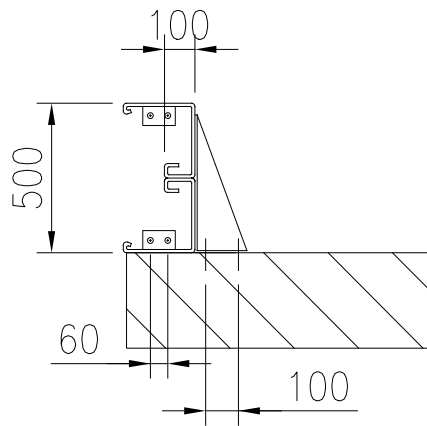
# COLUMN SPECS

## Characteristics

inside mounting



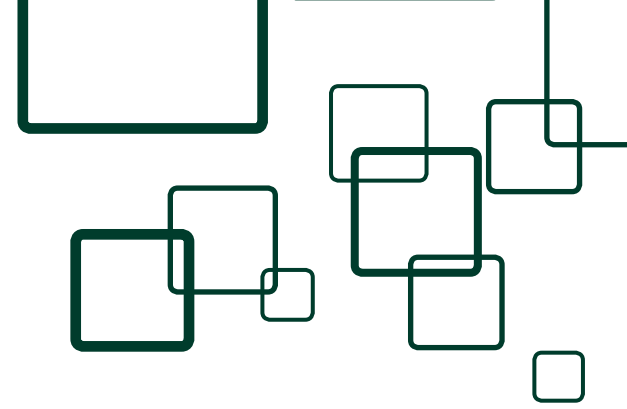
front mounting



1. Brushes
2. Polyzene sliding pats
3. Aluminum trusses
4. Column frame
5. Light curtain

# WIND LOADS

## classifications



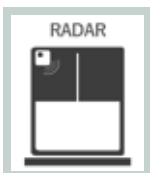
Class wind EN 12424	Pressure [Pa - N/m <sup>2</sup> ]	Wind speed [m/s]	Wind speed [Km/h]	Scale Beaufort
0	0	0	0	0
1	300	22	80	9
2	450	27	100	10
3	700	34	120	12
4	1000	41	150	13
5	>1000	Manufacturer and buyer agreement		

*Below is the table of the Beaufort scale that classifies the wind with respect to its speed*

Scale Beaufort	Pressure [Pa - N/m <sup>2</sup> ]	Average wind speed			Term of description	EN 12424
		knot	m/s	km/h		
0	0 - 0	0 - <1	0.0 - 0.2	0	Calm	0
1	0.1 - 0.1	1 - <4	0.3 - 1.5	1 - 5	Light air	1
2	2.0 - 5.9	4 - <7	1.6 - 3.3	6 - 11	Light breeze	1
3	6.9 - 17.7	7 - <11	3.4 - 5.4	12 - 19	Gentle breeze	1
4	18.6 - 38.3	11 - <16	5.5 - 7.9	20 - 28	Moderate wind	1
5	39.2 - 70.6	16 - <22	8.0 - 10.7	29 - 38	Fresh breeze	1
6	71.6 - 116.7	22 - <28	10.8 - 13.8	39 - 49	Strong breeze	1
7	117.7 - 179.5	28 - <34	13.9 - 17.1	50 - 61	High wind	1
8	180.5 - 262.9	34 - <41	17.2 - 20.7	62 - 74	Fresh gale	1
9	263.9 - 364.9	41 - <48	20.8 - 24.4	75 - 88	Strong gale	1-2
10	366.9 - 495.4	48 - <56	24.5 - 28.4	89 - 102	Storm	2-3
11	496.4 - 652.4	56 - <64	28.5 - 32.6	103 - 117	Violent storm	3
12	653.3 - 836.7	> 64	32.7 - 36.9	118 - 133	Hurricane	3-4
13	837.8 - 1039.9	> 64	37.0 - 41.4	134 - 149	Hurricane	4-5

## ACCESSORIES

### RADAR



Device to control industrial doors and automatic doors. The sensors are activated by movement of persons and vehicles inside a controlled area.

### RADIO CONTROL



Device to control industrial doors, that allows remote opening and closing.

### MAGNETIC LOOP

The presence or transit of vehicle on the loop opens or keep open the door.



### ROPE TIE ROD

Control device for industrial doors, that allows manual opening and closing.





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