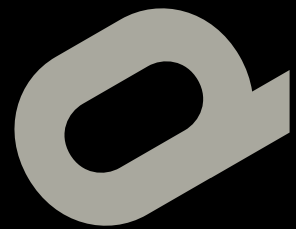

Industrial
closures



apostolidaniele

Industrial closures



Industrial closures represent the ideal solution for the management and protection of access gates or for the separation of commercial and industrial buildings.

There are different types of doors, each suitable for specific contexts according to particular peculiarities and performance. The proposal occurs always following a careful needs evaluation, offering a professional and tailored advice.

Our solutions /

Rapid doors **6/**

Flap doors **32/**

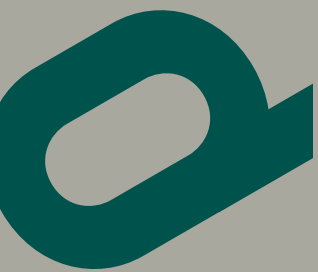
PVC partitions **38/**

Folding and sectional doors **44/**

Shutters **58/**

Safety and fire protection **62/**

Rapid doors /



Rapid doors offer a good level of insulation and protection of the gates that need frequent daily openings.

They are characterized by the high activation speed of the curtain.



R21 8 /
Mavifood 10 /
AD 12 /
F30 14 /
E12 16 /
E13 18 /
Dapbig 20 /
Saildoor® 22 /
Arella 24 /
Reverso 26 /
Engineering & Service 28 /

R21

/ auto-repair & anti-damage

High-speed roll up door for industrial spaces
Curtain without tubes and guides with low air permeability

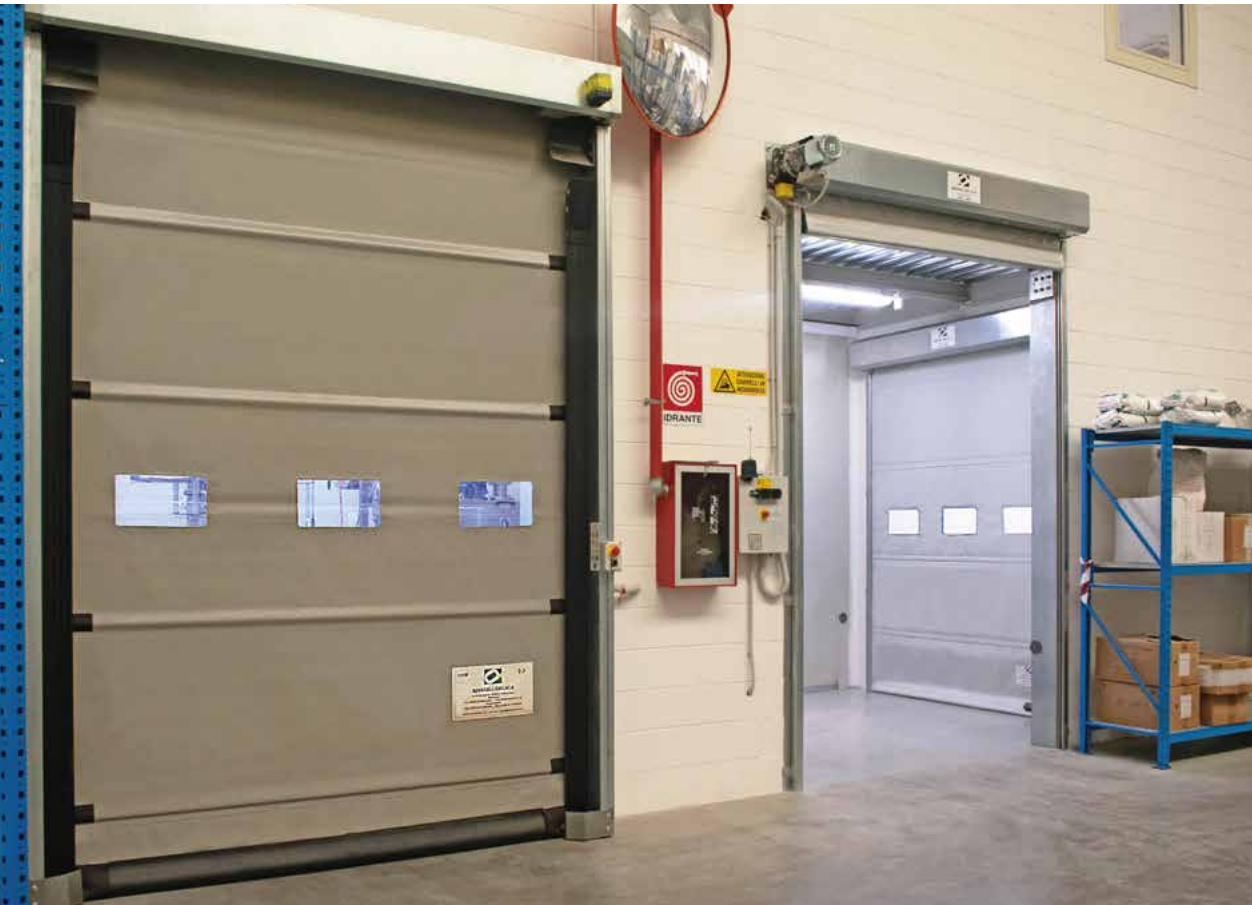


specifications/	opening systems/	electrical devices/
<p>Application inside/inside, inside/outside</p>	<p>Metal detector automatic opening command with magnetic loops metal mass sensor</p>	<p>Photocells Three pairs of photocells are inserted in the pillars to stop the descent of the curtain and to roll it up again when they detect an obstacle.</p>
<p>Pillars in press-bending plate in galvanised steel and polyzene guides</p>	<p>Radar opening command for industrial doors. It detects both people and vehicles on surfaces from 1 to 20 square meters, adjustable according to need</p>	<p>Electric panel The electric panel has an inverter that, thanks to an appropriate logic card, allows controlling the gear motors managing the motion with acceleration and deceleration ramps.</p>
<p>Crossbeam made with tubular steel with a plate covering</p>	<p>Remote control transmitter-operating range from 80 to 100 meters</p>	<p>Encoder The cloth positioning inputs are given by a multi-turn absolute encoder directly aligned with the winding drum.</p>
<p>Curtain in PVC 1000 gr/m2, high resistance for weight and texture, PVC rubbed</p>		<p>Dongle The portable keypad allows the installer to change the parameters of the electric panel within the limits provided by the framework programme.</p>
<p>Windows windows or visibility stripes</p>		
<p>Optional slatted curtain</p>		



motor control/	technical details/	finishing/
<p>Nominal installation power 220V / 1+N+T Frequency 50 Hz Motor power 1,1 kW Single speed gear motor installed outside the crossbeam under the covering</p>	<p>Opening/closing speed 1.4 m/s Resistance to curtain tears 3000 N/5cm Max. Dimensions 4000x4000 mm Doors according to the Norm UNI EN 13241</p>	





Mavifood

/ auto-repair & anti-damage

High-speed PVC roll up door for the separation of the industrial spaces for the food industry.

specifications/

Application
inside/inside

Crossbeam
in press-bending plate in galvanised steel, sloping and finalised to the washing with water jet in order to avoid its stagnation

Pillars
in press-bending plate in galvanised steel, stainless steel on demand

Curtain
self-extinguishing PVC class II, anti UV and anti mould, stiffened by composite tubes

Auto-repair
the open rails allow the automatic curtain reinsertion in case of coming out

Anti-damage
the flexible rails and tubes avoid permanent damages to the curtain and structure

Windows
windows or visibility stripes

Optional
slatted curtain

motor control/

Nominal installation power
400V / 3+T
Frequency
50 Hz
Motor power from
da 0,37
Single speed gear motor installed integrated into the crossbeam

opening systems/

Metal detector
automatic opening command with magnetic loops metal mass sensor

Radar
opening command for industrial doors. It detects both people and vehicles on surfaces from 1 to 20 square meters, adjustable according to need

Remote control
transmitter-operating range from 80 to 100 meters

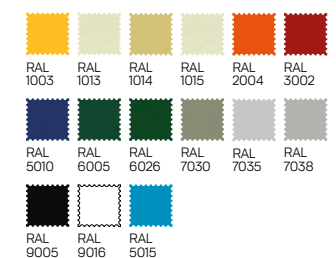
security systems/

The passage control is managed and controlled in safety through two transmitting photocells (one for each door side) and two receiving ones with amplifier. Mobile protection device on the closing edge consisting of a sensitive resistive strip that in case of contact transmits via radio with the control unit. In case of accidental impact, it determines the arrest and the immediate reopening as required by the Norm **UNI EN 13241**.
NO TOUCH SECURITY SYSTEM

technical details/

Opening/closing speed
0,7 - 1,0 m/s
Resistance to curtain tears
3000 N/5cm
Rails min. traction resistance
45.000 N
Max. Strength on primary edge
UNI EN 13241
Max. Dimensions
4000x4000 mm
Doors according to the Norm
UNI EN 13241

finishing/



AD

/ auto-repair & anti-damage

High-speed PVC roll up door for the separation of the industrial spaces and for the closure of the openings in façade.



specifications/

Application

inside/inside, inside/outside

Pillars and crossbeam

in press-bending plate in galvanised steel, RAL or stainless steel on demand

Curtain

self-extinguishing PVC class II, anti UV and anti mould, stiffened by tubes

Auto-repair

the open rails allow the automatic curtain reinsertion in case of coming out

Anti-damage

the flexible rails and tubes avoid permanent damages to the curtain and structure

Windows

windows or visibility stripes

Optional

slatted curtain, semi-automatic counterweight

motor control/

Nominal installation power

400V / 3+T

Frequency

50 Hz

Motor power from

da 0,37 a 0,75 kW

Single speed gear motor installed integrated into or outside the crossbeam

opening systems/

Metal detector

automatic opening command with magnetic loops metal mass sensor

Radar

opening command for industrial doors. It detects both people and vehicles on surfaces from 1 to 20 square meters, adjustable according to need

Remote control

transmitter-operating range from 80 to 100 meters

security systems/

The passage control is managed and controlled in safety through two transmitting photocells (one for each door side) and two receiving ones with amplifier. Mobile protection device on the closing edge consisting of a sensitive resistive strip that in case of contact transmits via radio with the control unit. In case of accidental impact, it determines the arrest and the immediate reopening as required by the Norm **UNI EN 13241**.
NO TOUCH SECURITY SYSTEM

technical details/

Opening/closing speed

0,7 - 1,0 m/s

Resistance to curtain tears

3000 N/5cm

Resistance to pressure difference

50.000 N

Rails min. traction resistance

CL 2

Max. Inside dimensions

6000x6000 mm

Max. Outside dimension

5000x5000 mm

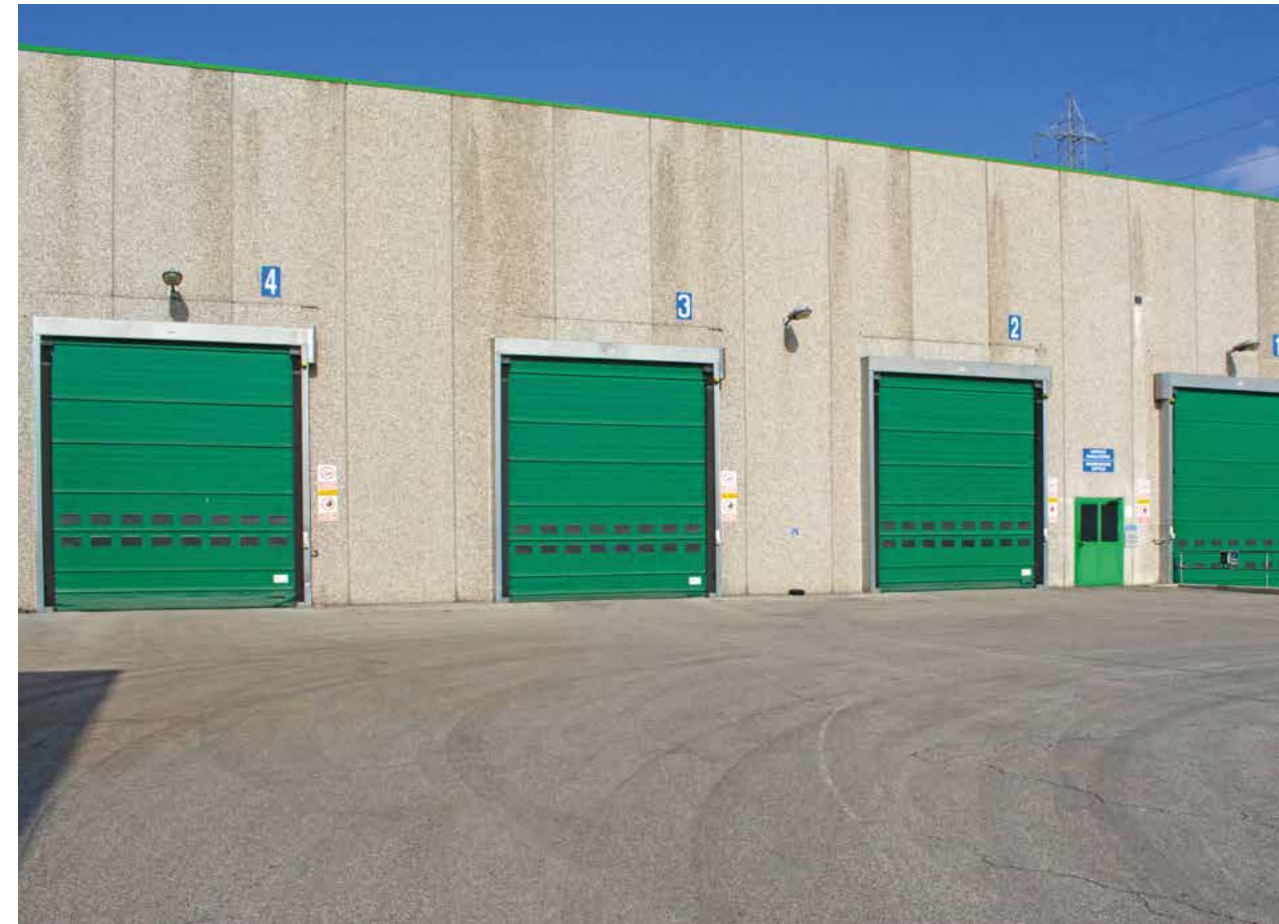
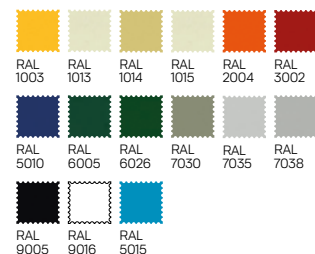
Max. Strength on primary edge

UNI EN 13241

Doors according to the Norm

UNI EN 13241

finishing/



F30

/ manual-repair & anti-damage

High-speed PVC fold up door with anti-damage system for industrial spaces

specifications/

Application
inside/inside, inside/outside

Pillars and crossbeam
in press-bending plate in galvanised steel, RAL or stainless steel on demand

Curtain
self-extinguishing PVC class II, anti UV and anti mould, stiffened by tubes

Anti-raising
system composed by two security photocells that block the door in case the raising belts accidentally hook one person or one object. Norm UNI EN 13241-1

Manual-repair
the flexible rails avoid tubes damages allowing a manual curtain reinsertion in case of coming out

Anti-damage
the flexible rails avoid permanent damages to the structure

Windows
windows or visibility stripes

Optional
slatted curtain, sound-absorbing curtain, semi-automatic counterweight

opening systems/

Metal detector
automatic opening command with magnetic loops metal mass sensor

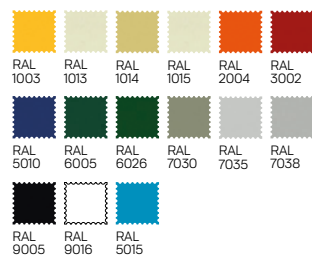
Radar
opening command for industrial doors. It detects both people and vehicles on surfaces from 1 to 20 square meters, adjustable according to need

Remote control
transmitter-operating range from 80 to 100 meters

motor control/

Nominal installation power
400V / 3+T
Frequency
50 Hz
Motor power from
da 1,5 a 2,2 kW
Single speed gear motor installed outside the crossbeam under the cover.

finishing/



security systems/

The passage control is managed and controlled in safety through two transmitting photocells (one for each door side) and two receiving ones with amplifier. Mobile protection device on the closing edge consisting of a sensitive resistive strip that in case of contact transmits via radio with the control unit. In case of accidental impact, it determines the arrest and the immediate reopening as required by the Norm **UNI EN 13241**.
NO TOUCH SECURITY SYSTEM

technical details/

Opening/closing speed
0,6 m/s
Resistance to curtain tears
3000 N/5cm
Resistance to pressure difference
CL II
20.000 N
Rails min. traction resistance
CL 2
Max. Inside dimensions
8000x8000 mm
Max. Outside dimensions
7500x7500 mm
Max. Strength on primary edge
UNI EN 13241
Doors according to the Norm
UNI EN 13241





μ

E12

High-speed PVC fold up door for industrial spaces.

specifications/

Application
inside/inside, inside/outside

C Pillars
variable section, in press-bending plate in galvanised steel

Crossbeam
made with a steel tube and closed under a press-bending plate cover

Curtain
self-extinguishing PVC class II, high resistance for weight and texture, PVC rubbed, stiffened by metal tubes

Anti-raising
system composed by two security photocells that block the door in case the raising belts accidentally hook one person or one object.
Norm UNI EN 13241

Windows
windows or visibility stripes

Optional
slatted curtain,
sound-absorbing curtain

motor control/

Nominal installation power
400V / 3+T
Frequency
50 Hz
Motor power from
da 0,37 a 0,75 kW
Gear motor with perpendicular axle to the crossbeam

opening systems/

Metal detector
automatic opening command with magnetic loops metal mass sensor

Radar
opening command for industrial doors. It detects both people and vehicles on surfaces from 1 to 20 square meters, adjustable according to need

Remote control
transmitter-operating range from 80 to 100 meters

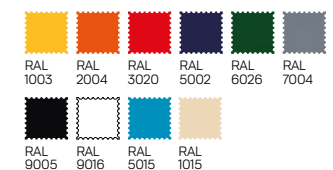
technical details/

Opening/closing speed
0,4 m/s
Resistance to curtain tears
3000 N/5cm
Max. Dimensions
5000x5000 mm
Max. Strength on primary edge
UNI EN 13241
Doors according to the Norm
UNI EN 13241
Resistance to pressure difference
CL 2

security systems/

The passage control is managed and controlled in safety through two photocells. Mobile protection device on the closing edge consisting of a sensitive resistive strip that in case of contact transmits via radio with the control unit. In case of accidental impact, it determines the arrest and the immediate reopening as required by the Norm **UNI EN 13241**.

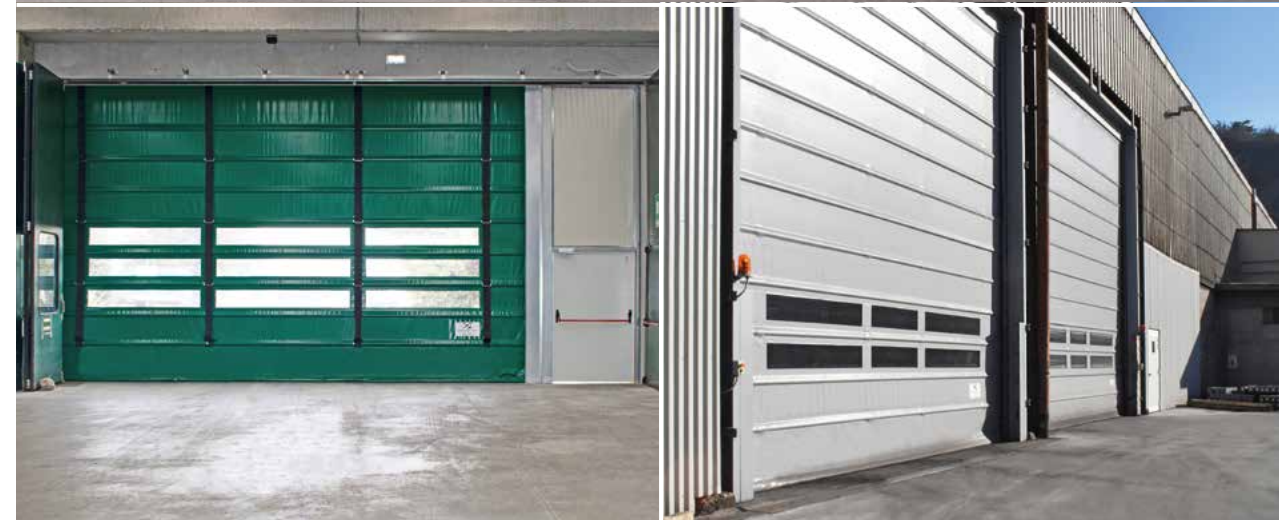
finishing/



E13

Big high-speed PVC fold up door for industrial spaces.

specifications /	opening systems/	security systems/
<p>Application inside/inside, inside/outside</p> <p>C Pillars variable section, in press-bending plate in galvanised steel</p> <p>Crossbeam made with a steel tube and closed under a press-bending plate cover</p> <p>Curtain self-extinguishing PVC class II, high resistance for weight and texture, PVC rubbed, stiffened by metal tubes</p> <p>Anti-raising system composed by two security photocells that block the door in case the raising belts accidentally hook one person or one object. Norm UNI EN 13241.</p> <p>Windows windows or visibility stripes</p> <p>Optional slatted curtain, sound-absorbing curtain</p>	<p>Metal detector automatic opening command with magnetic loops metal mass sensor</p> <p>Radar comando di apertura per porte opening command for industrial doors. It detects both people and vehicles on surfaces from 1 to 20 square meters, adjustable according to need</p> <p>Remote control transmitter-operating range from 80 to 100 meters</p>	<p>The passage control is managed and controlled in safety through two photocells. Mobile protection device on the closing edge consisting of a sensitive resistive strip that in case of contact transmits via radio with the control unit. In case of accidental impact, it determines the arrest and the immediate reopening as required by the Norm UNI EN 13241.</p>
motor control/	technical details/	finishing/
<p>Nominal installation power 400V / 3+T Frequency 50 Hz Motor power from da 0,75 a 1,1 kW Gear motor with perpendicular axle to the crossbeam. Two motors if requested by the dimensions</p>	<p>Opening/closing speed 0,4 m/s Resistance to curtain tears 3000 N/5cm Max. Dimensions 8000X8000 mm Max. Strength on primary edge UNI EN 13241 Doors according to the Norm UNI EN 13241 Resistance to pressure difference CL 2</p>	





Dapbig

High-speed PVC fold up door for big openings.

specifications /

Application
inside/outside

C Pillars
in press-bending plate in galvanised steel, RAL on demand

Crossbeam
electro-welded self-supporting carpentry structure closed under a steel cover that supports the drive shaft for the curtain traction

Curtain
self-extinguishing PVC class II, anti UV and anti mould, stiffened by tubes

Anti-raising
system composed by two security photocells that block the door in case the raising belts accidentally hook one person or one object. (Norm UNI EN 13241). Security belts to avoid the sudden curtain fall

Windows
windows or visibility stripes

opening systems/

Metal detector
automatic opening command with magnetic loops metal mass sensor

Radar
opening command for industrial doors. It detects both people and vehicles on surfaces from 1 to 20 square meters, adjustable according to need

Remote control
transmitter-operating range from 80 to 100 meters

Optional
slatted curtain,
sound-absorbing curtain

security systems/

The passage control is managed and controlled in safety through two transmitting photocells (one for each door side) and two receiving ones with amplifier. Mobile protection device on the closing edge consisting of a sensitive resistive strip that in case of contact transmits via radio with the control unit. In case of accidental impact, it determines the arrest and the immediate reopening as required by the Norm UNI EN 13241. NO TOUCH SECURITY SYSTEM

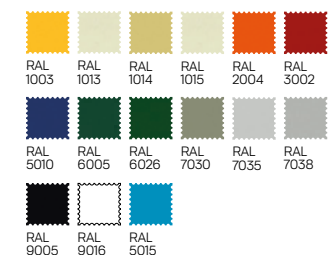
motor control/

Nominal installation power
400V / 3+T
Frequency
50 Hz
Motor power from
da 1,5 a 2,2 kW
Gear motor/motors with perpendicular axle to the crossbeam. Two motors if requested by the dimensions

technical details/

Opening/closing speed
0,2 m/s
Resistance to curtain tears
3000 N/5cm
Rails min. traction resistance
50.000 N
Max. Dimensions
15000x8000 mm
Max. Strength on primary edge
UNI EN 13241
Doors according to the Norm
UNI EN 13241

finishing/





Saildoor

High-speed fold-up door with high performance, wind resistant up to class 5 of the Norm EN12424, suitable for big dimensions.

specifications/

Application
inside/outside

Pillars
painted galvanised steel beams with covering in press-bending plate

Crossbeam
not mechanised with the only aim to support the cloth

Curtain
self-extinguishing PVC class II, stiffened by steel cables

Windows
windows or visibility stripes

optional/

pneumatic or oleo-dynamic motor for ATEX zones
soundproofing cloth
REVERSO system
automatic opening

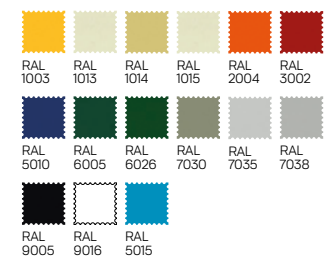
motor control/

Nominal installation power
400V / 3+T
Frequency
50 Hz
Motor power proportioned to the door dimension.
Gear motors placed on the floor

technical details/

Opening/closing speed
0,4 m/s
Resistance to curtain tears
3000 N/5cm
Max. Dimensions: custom-built
on project
Doors according to the Norm
UNI EN 13241
Resistance to pressure difference
CL 5

finishing/



Arella



Special door consisting of a roto-translating curtain collection system without supporting pillars of the structure and of the crossbeam. It allows the management of the spaces logistic partition without intervening on changes to the side areas of the door.

specifications/

Application
inside/inside

C Pillars
variable section, in press-bending plate in galvanised steel

Crossbeam
realised with a steel tube

Curtain
self-extinguishing PVC class II, anti UV and anti mould stiffened by tubes

Optional
windows or visibility stripes

opening systems/

dead-man

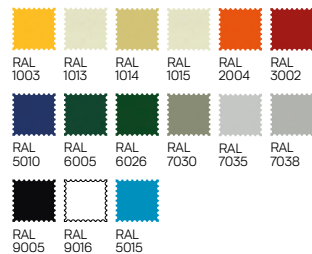
motor control/

Nominal installation power
400V / 3+T
Frequency
50 Hz
Motor power from
da 0,75 a 2,2 kW
Gear motor with perpendicular axle to the crossbeam.
Two motors if requested by the dimensions.

technical details /

Opening/closing speed
0,2 m/s
Resistance to curtain tears
3000 N/5cm
Max. Dimensions:
40.000X10.000 mm
Max. Strength on primary edge
UNI EN 13241
Doors according to the Norm
UNI EN 13241

finishing/



Reverso

Reverso model permits to manage the curtain opening from the bottom to the top, favoring industrial processes that mainly require superior access.

Specifications/

Application

inside/inside, inside/outside

C Pillars

variable section, in press-bending plate in galvanised steel

Crossbeam

made with a steel tube and closed under a press-bending plate cover

Curtain

self-extinguishing PVC class II, anti UV and anti mould stiffened by tubes

Anti-raising

system composed by two security photocells that block the door in case the raising belts accidentally hook one person or one object.
Norm UNI EN 13241

Windows

windows or visibility stripes

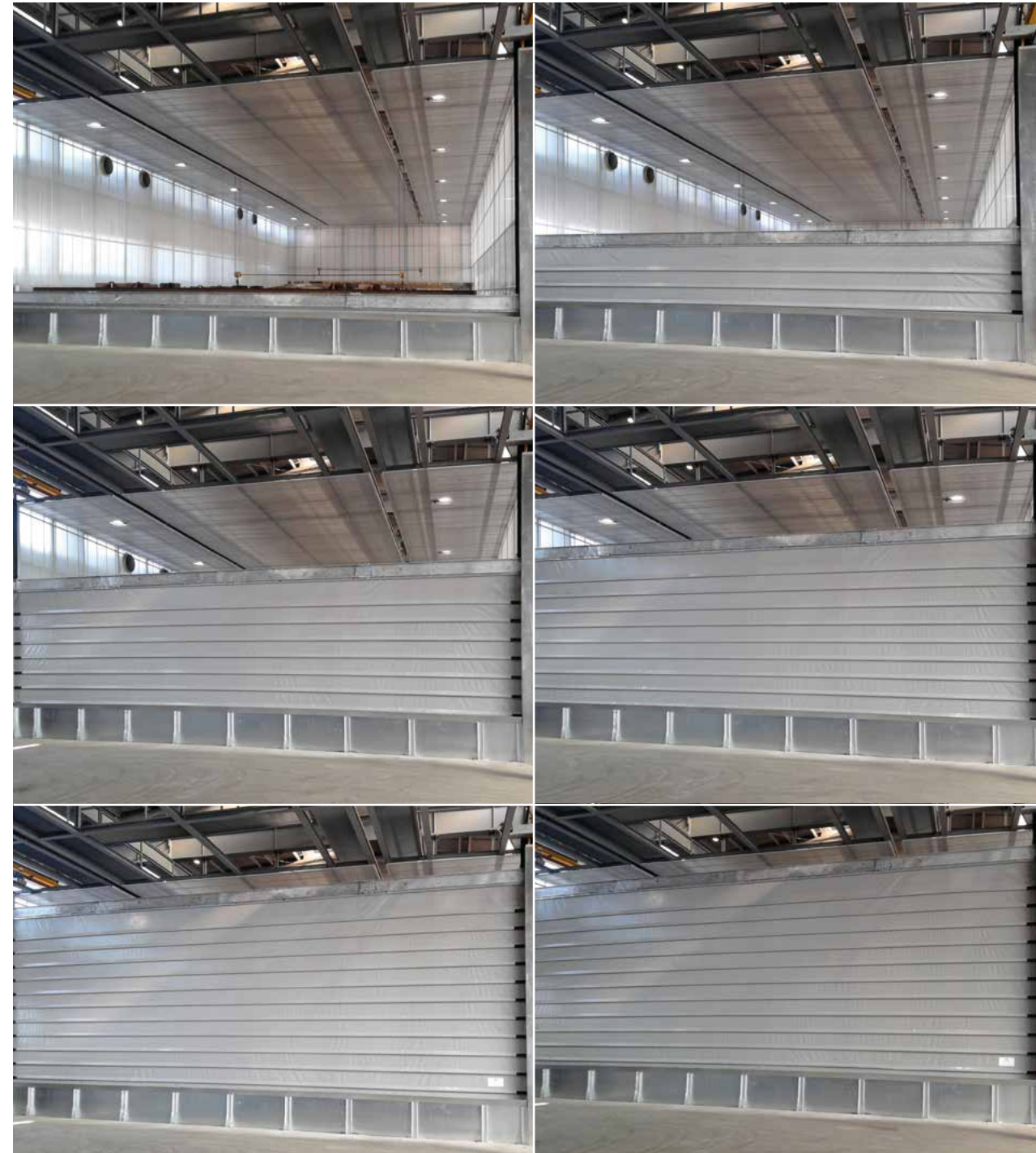
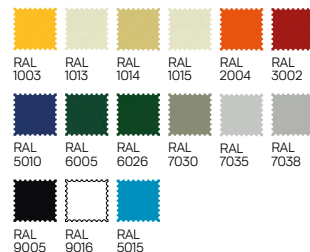
motor control/

Nominal installation power
400V / 3+T
Frequency
50 Hz
Motor power from
da 1,5 a 2,2 kW
Gear motor with perpendicular axle to the crossbeam.
Two motors if requested by the dimensions.

technical details/

Opening/closing speed
0,2 m/s
Resistance to curtain tears
3000 N/5cm
Rails min. traction resistance
50.000 N
Max. Dimensions
15000x8000 mm
Max. Strength on primary edge
UNI EN 13241
Doors according to the Norm
UNI EN 13241

finishing/



Special solutions designed by engineering & service department

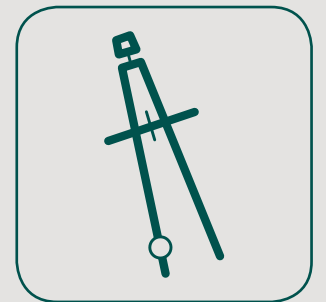
Thanks to Engineering&Service dpt., we respond promptly and decisive to customers' need or problems. From 1959 to today, Apostoli Daniele has become the sector representative to entrust the study of solutions for technical problems and coverings.

/Thanks to Engineering&Service dpt., we respond promptly and decisive to customers' need or problems. From 1959 to today, Apostoli Daniele has become the sector representative to entrust the study of solutions for technical problems and coverings. The design dpt. combines the artisanship of our workers with the production needs on an industrial scale, responding in this way to the exacting market requirements. The result is tangible in some special works, thanks to which it has been possible to contribute to the best industrial logistic management.



Custom made

We design and create products able to compartmentalize work areas. Our design skills allow us to respond to the needs of workers and work zones protection within the production plants.

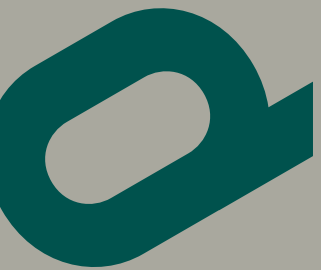


Porte flap/

Flap doors are mainly used in shops, supermarkets or production plants of the food factor in order to compartmentalize spaces with different uses.



Flap inox ³⁴ /
Dapleaf ³⁶ /



Flap inox

Flip flap door with rigid shutters with push opening and return by means of a spring. Suitable for spaces for food use or supermarkets.

specifications/

Structure

shutter covered in stainless steel AISI 304 plate, composed by a structure in metallic bar in stainless steel AISI 304 shaped according to the doors dimensions and honeycombed with polystyrene

Application

inside/inside

Optional

oval or round windows

opening system/

Pushing

Activation through pushing opening, spring return in closing. Available with three resting position: 0°, + 90°, and -90°. Intermediate opening edges are brought to the resting position back by the over mentioned spring.

finishing/



stainless
steel





Dapleaf

Flip flap door with flexible shutters suitable for easy and rapid solutions.

specification/

Application
inside/inside

Structure
bar in galvanised steel, painted or stainless steel on demand

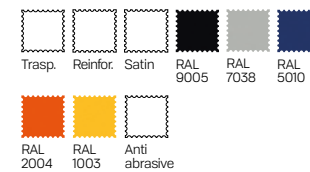
Cloth
flexible transparent PVC, base in different colours on demand

opening systems/

Impact
impact opening, spring return in closing, 2-way passage with a stroke at 90°

Contact
opening system through pushing. The pressure on the shutters starts an activator placed on the pneumatic piston that determines the door opening.

finishing/

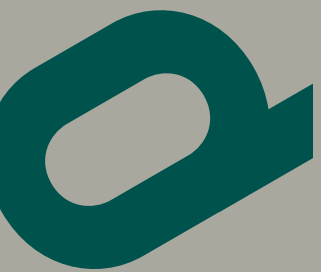


PVC dividers /

Pvc dividers are designed to compartmentalize different spaces in an easy and functional way.



Dapstrip 40 /
Dividers cloths 42 /



Dapstrip

The strips closure is a basic product to divide or protect different spaces allowing the passage.

specification/

Application

inside/inside - inside/outside

Profiles

customizable structure in press bending galvanised steel, RAL painted or stainless steel on demand.

Strips

in transparent PVC, standard colours on demand. Thickness 2X100 mm, 2X200 mm, 3X300 mm, 4X400 mm

Optional

low temperature version suitable for the installation in refrigerating rooms
Anti-UV EN 1598
Anti-insects

types/

laterally sliding
(manual or pneumatic)

fixed

oscillating

attachable

sliding on a curved rail

finishing/





Dividers cloths

The dividers cloths are the most suitable solution to divide in an efficient way different spaces also with irregular geometries.

specification/

Application
inside/inside inside/outside

Structure
project-based

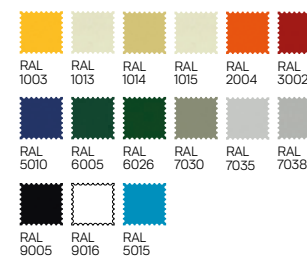
Cloth
flexible PVC

Optional
reinforcing bars to increase the wind resistance

opening systems/

manual
project-based

finishing/



Folding and sectional doors/



The folding doors are suitable for the closing of big industrial and commercial openings. Thanks to their folding or dragging types, they need little space for the panels' shelter when the door is open.



Folding doors 46 /
Industrials 48 /
Thermo 50 /
Curtain dock shelter 52 /
Cushion dock shelter 53 /
Manual leveller 54 /
Hydraulic leveller 55 /
Dock house 56 /
Wheel lock 57 /

Folding doors

Doors with min. amount of space suitable for industrial spaces with big openings.

specification/	opening system/	security systems/
<p>Application inside/outside</p> <hr/> <p>Insulating frame thanks to their particular folding frame, they guarantee an optimal thermal insulation level.</p> <hr/> <p>Seals the lateral gaskets applied through the panels seal from wind, rain, humidity, assuring protection against fingers crushing</p> <hr/> <p>Shutters realised with a perimetral internal frame in 50*50*2 mm profile, galvanised and covered both side by a pre-painted galvanised plate</p> <hr/> <p>Headroom reduced folding system with panels packed 90° or 180°</p> <hr/> <p>Optional internal wicket pass door windows ventilation grills</p>	<p>manual motorised</p>	<p>The passage control is managed and controlled safely by a pair of photocells. Mobile protection device on closing edge, consisting of a strip that is resistive and sensitive to the contact that transmits via radio with the control unit. In case of accidental impact, it determines the stop and immediate reopening as provided by UNI EN 13241.</p>

finishing/





Sectional industrial door

Door suitable for industrial spaces with reduced headroom and high performances.

specifications/

Application
inside/outside

Panels
40 mm thick, 60 mm anti-pinch system realised in pre-painted steel plate 0,5 mm thick and insulated with polyurethane foam; rails in galvanised steel equipped with shaped seals

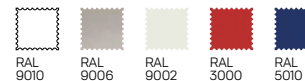
opening system/

manual
motorised

security systems/

The passage control is managed and controlled safely by a pair of photocells. Mobile protection device on closing edge, consisting of a strip that is resistive and sensitive to the contact that transmits via radio with the control unit. In case of accidental impact, it determines the stop and immediate reopening as provided by **UNI EN 13241**.

finishing/



Sectional thermo door

Door suitable for industrial spaces with reduced dimensions in width at high thermal performances to insulate spaces with controlled temperatures.

specifications/

Application
inside/outside

Panels
80 mm thick, coefficient 0,5w/m2k
anti-pinch system realised
in pre-painted steel plate 0,5
mm thick and insulated with
polyurethane foam

opening system/

manual
motorised

security systems/

the passage control is managed
and controlled safely by a pair
of photocells. Mobile protection
device on closing edge, consisting
of a strip that is resistive and
sensitive to the contact that
transmits via radio with the
control unit. In case of accidental
impact, it determines the stop and
immediate reopening as provided
by UNI EN 13241.

finishing/



Curtain dock shelter

Isothermal PVC portal suitable for the protection and sealing of the loading bay.

specification/

Application
inside/outside

Profiles
aluminium or galvanised steel

Cloth
double internal reinforcing frame
in anti-abrasive PVC lateral
and frontal



Cushion dock shelter

Isothermal PVC and sponge portal suitable to reduce thermal loss.

specification/

Application
inside/outside

Profiles
galvanised steel frame

Cloth
internal sponge core covered in
anti-abrasive PVC lateral
and frontal



Manual leveller

Product designed to facilitate loading / unloading operations at the loading point with reduced dimensions.

specifications/

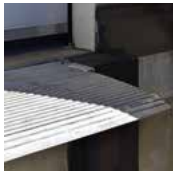
Application
in pit or in over dock

Elements
standard lip
rubber bumpers

Optional
epdm gaskets
rails
lip with lateral flaps
lip with blunted edge at 45°
flap lip
bakelite bumpers
swinging bumpers

opening systems/

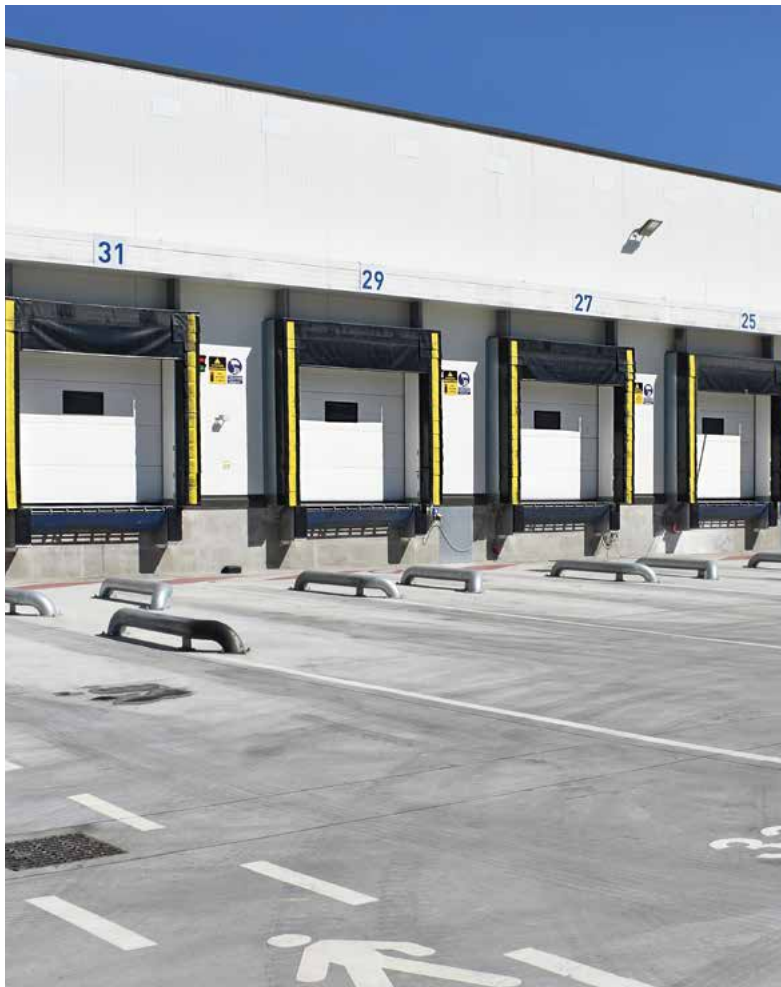
manual with lever
manual with gas lever



Manual dock leveller



Mini dock leveller



Hydraulic leveller

Product designed to facilitate loading / unloading operations at the loading point.

specifications/

Application
in pit or in over dock

Elements
standard lip
rubber bumpers

Optional
epdm gaskets
rails
lip with lateral flaps
lip with blunted edge at 45°
flap lip
bakelite bumpers
swinging bumpers
over dock structure

opening systems/

hydraulic



Hydraulic dock leveller



Hydraulic mini dock leveller



Dock house

The Dock House is a compact solution that constitutes a connecting environment between the inside of the truck and the inside of the building. It consists of a support metal structure, compartmentalized with sandwich panels, in which there are the dock leveller and the dock shelter.

specifications/

- Application**
inside/outside

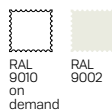
- Profiles**
tinsmithery and galvanised steel,
RAL on demand

- Sealing cloth**
double internal reinforcing frame
in anti-abrasive PVC lateral and
frontal

- Covering**
sandwich panels min. 40 mm
thick

- Dock leveller**
hydraulic or manual

finishing/



Wheel lock

Safety system that allows the truck docking to the loading bay in a controlled way conveying direction and speed.

specifications/

- Application**
outside

- Structure**
galvanised steel

- Functionality**
possibility to interface
the system with the sectional door
and the dock leveller according to
an integrated logic

finishing/



Shutters/



A covering in metal panels composes the shutters. Wrapping in an upper box, the shutters boast small size and guarantee of safety. This characteristic places them among the most decided solutions where there are reduced spaces.



Shutter 60 /

Shutter

Closure suitable for ensuring protection in public places, appreciated for its reduced dimensions.

specifications/

- Application**
inside/outside

- L rails**
section in press bending
steel plate

- Crossbeam**
realised with a steel tube
and completed with a
covering crankcase

- Covering**
slats in press bending
plate

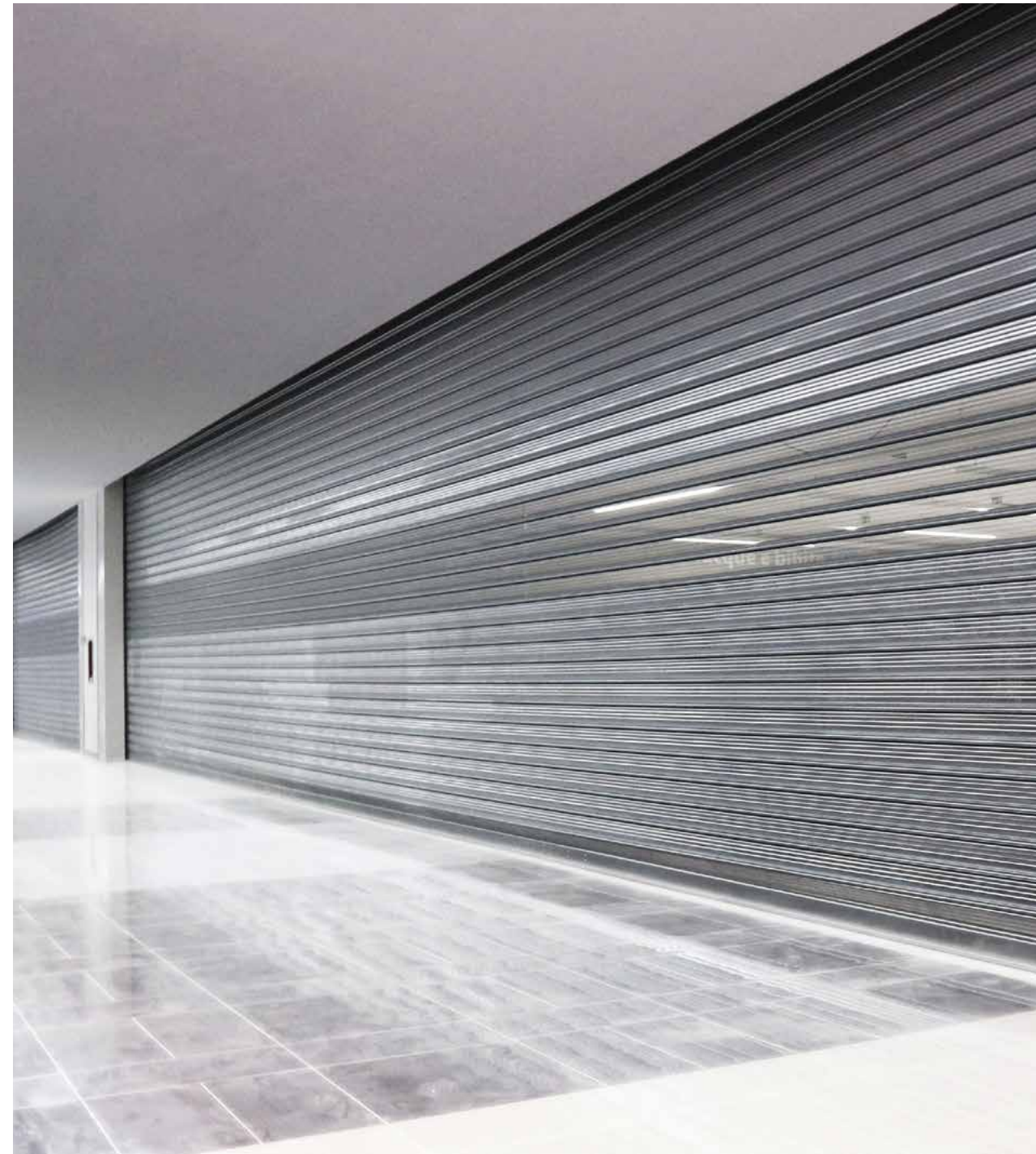
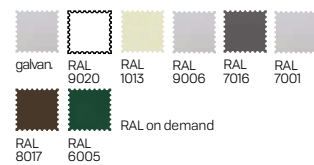
- Headroom**
free passage thanks to covering
wrapping inside an upper
headbox

- Optional**
RAL painting
perforated slats
insulated slats
windowed slats
slats with ventilation grills

opening systems/

- motorised
- manual
- motor set-up

finishing/

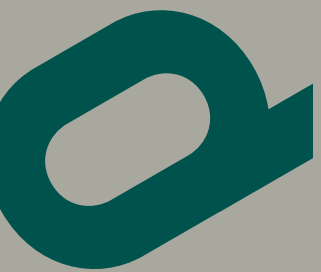


Safety and fire protection/

Certified closures according to the law in force to guarantee safety inside the buildings.



Fire curtain 64 /
Multipurpose doors 66 /
Fire doors 68 /
Sliding fire doors 70 /



Fire curtain

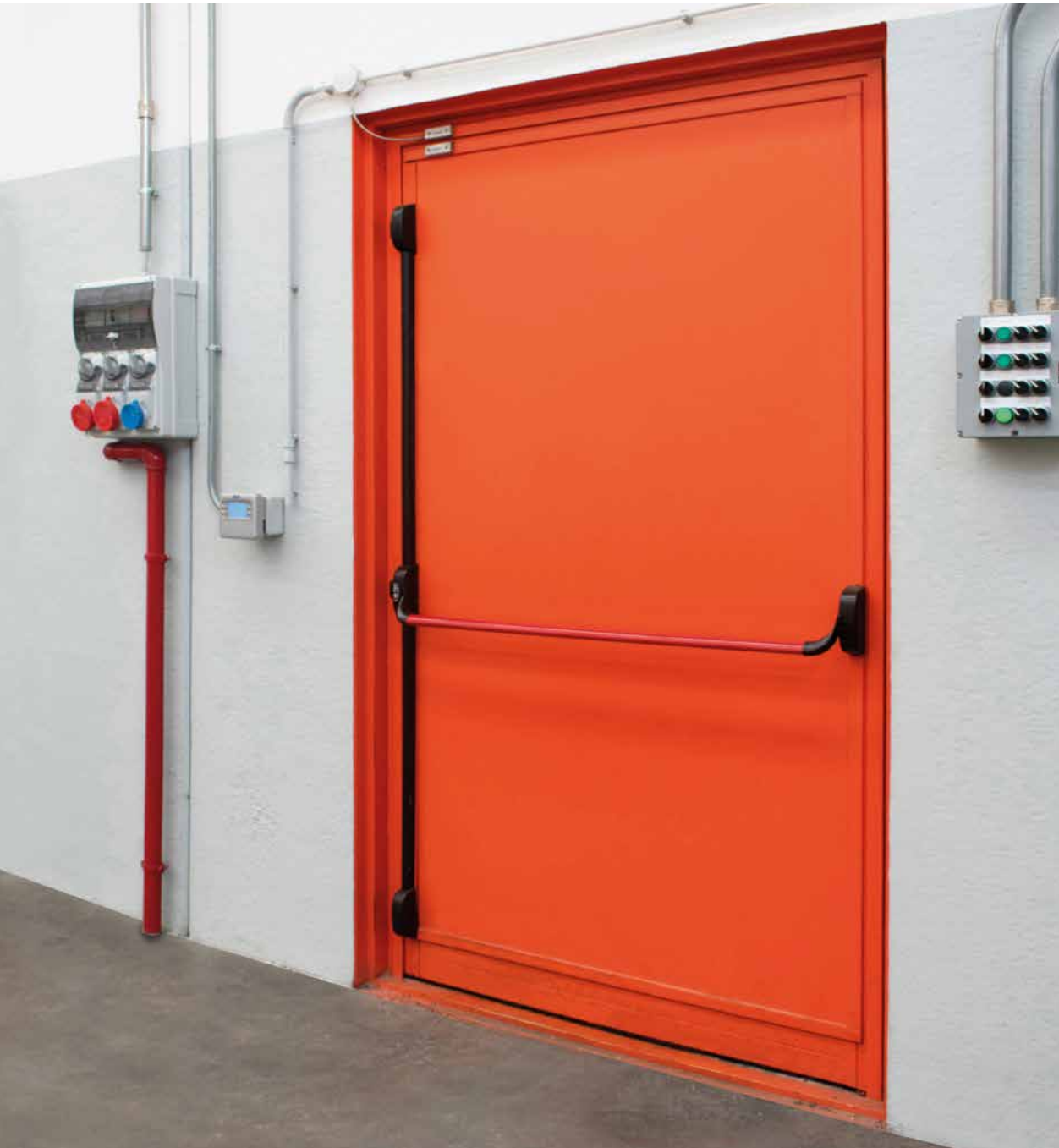
/ roll-up fireproof curtain

Fire and smoke proof curtain, ready to divide spaces in case of fire, ensuring fire resistance and temperature insulation up to 120 minutes.

specification/	opening system/	security systems/
<p>Class EI 30 / EI 60 / EI 120 EW 60 / EW 90 E 120</p>	<p>vertical descent, simultaneous in case of alarm</p>	<p>emergency generator in case of power lack. smoke sensors. integrated siren.</p>
<p>Pillars in press-bending chamber in galvanised steel, RAL or stainless steel on demand</p>		
<p>Crossbeam realised with crankcase in galvanised press-bending steel to protect the internal wrapping roll</p>		
<p>Curtain in glass fibre with reinforcement in metallic stainless steel net and silicone covering</p>		
<p>Curtain weight lower than 2,3 kg / sqm</p>		

finishing/





Multipurpose doors

Pedestrian door for industrial use also suitable for escape routes.

specifications/

Application
inside/inside inside/outside

Frame
profile in galvanised steel, paint
or stainless steel on demand

Optional
windows
ventilation grills
three-point locking mechanism

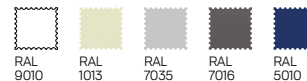
opening systems/

emergency handles
panic bars

finishing/



on demand



Firedoors

Hinged fireproof door

One or double-leaved fire doors REI 60/120.

specifications/

Applications
inside/outside

Class
REI 60 / 120

C Pillars
variable section, in press-bending plate in galvanised steel and painted

Frame
In galvanised steel profile, paint on demand

Optional
windows

opening systems/

emergency handles
panic bars

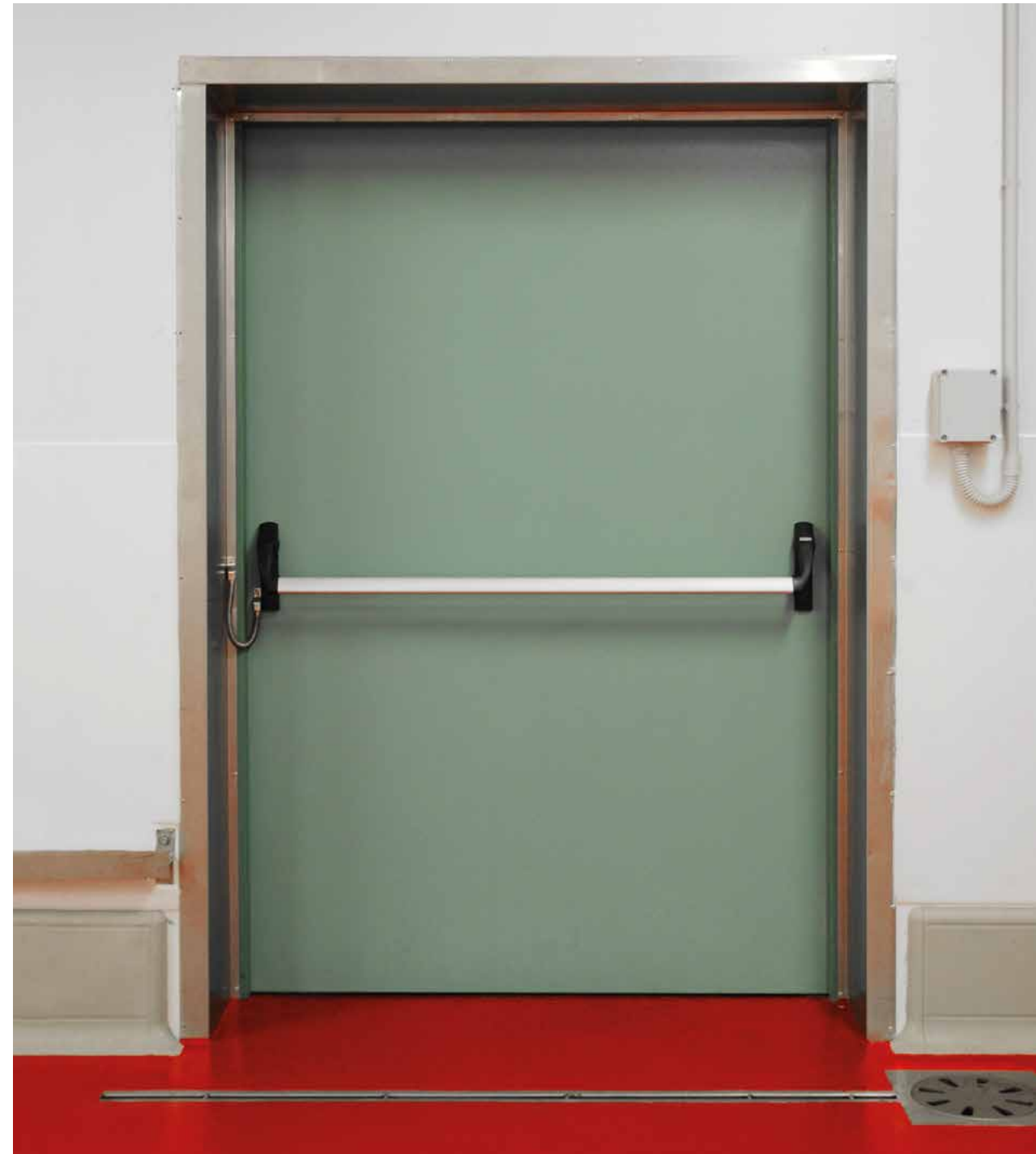
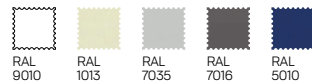
security systems/

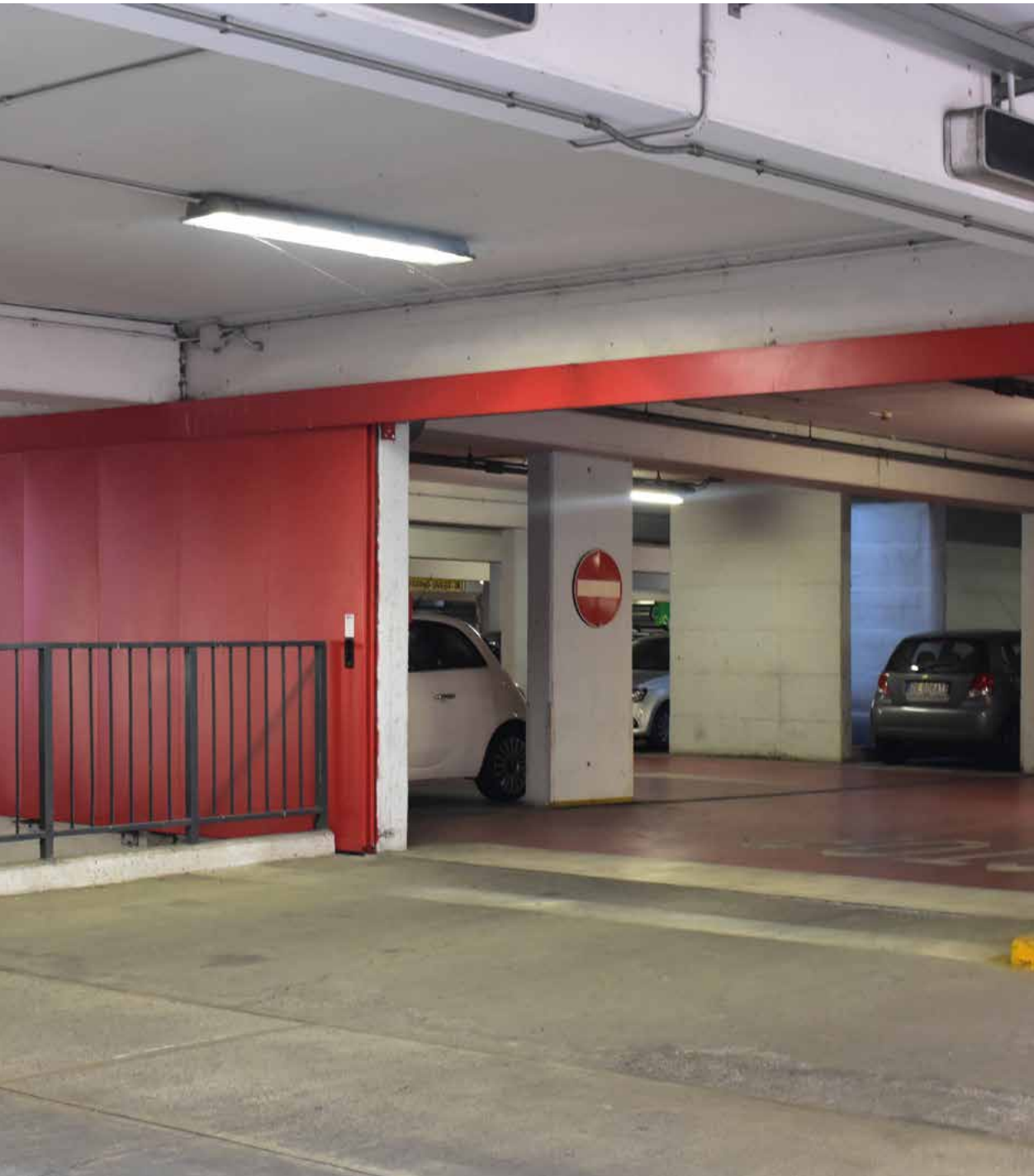
magnetic blocking mechanism

Finishing/



on demand





Firedoors

Sliding fireproof

Lateral sliding fire doors EI 60/120/180/240 .

specifications/

Class
EI 60 / EI 120 / EI 180 / EI 240

Frame
galvanised steel profile,
paint on demand
1 or 2 leaves

Sliding rail
horizontal in press-bending
chamber

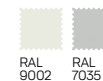
opening system/

manual or automatic opening
command with speed regulator

security systems/

thermal fuse
electromagnet

finishing/



Ral on demand



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