



Stacking Sectional Doors

Product Information

ULTIGROUP.CO.NZ



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Features Overview

Safety

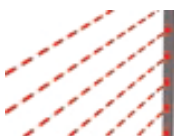
Slack cable device



Fall safety device



Light curtain safety



Automatic lock



Safety

Electrical operation



remote control



Control box with push buttons



Key switch



Sandwich Panels



MATERIAL PANELS

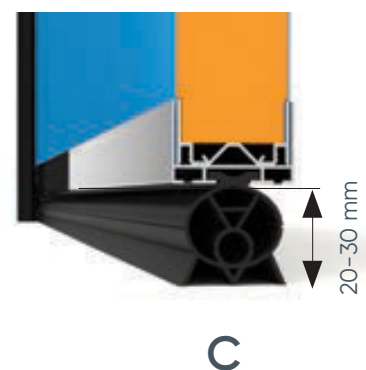
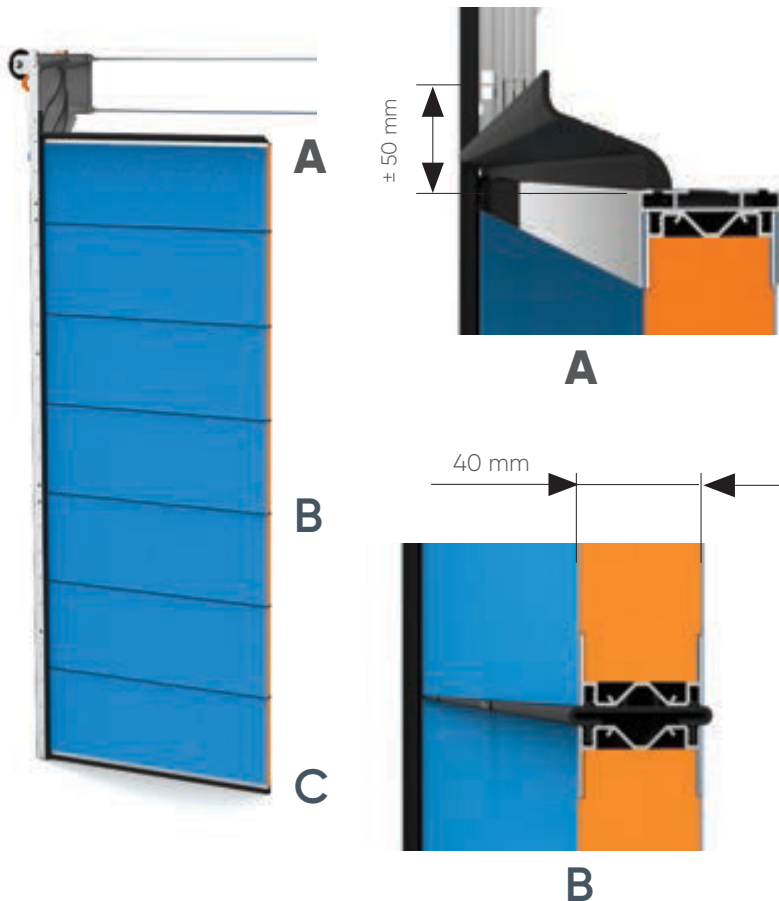
Insulated sandwich panels. CFC-free polystyrene foam covered with aluminium stucco finished cladding.

Aluminium U-profiles on top and bottom of the sandwich panels for extra strength and stability

PANEL SPECIFICATIONS

Top panel height variable.

Insulation value EN12428 Panel	U=0.76 W/m²K
Wind resistance EN12424	Class 2 – 5
Water penetration EN12425	Class 2
Air permeability EN12426	Class 2
Noise reduction ISO140-3 Panel	20db (A)



Standard Colours



10 standard RAL colours.
Other RAL colours possible.

WARNING

Dark RAL colours can cause problems in combination with sun heat and door panel width.



RAL 3002
carmine red



RAL 5010
gentian blue



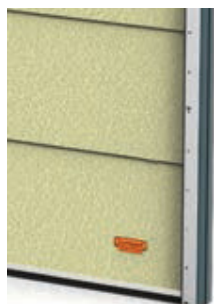
RAL 5017
traffic blue



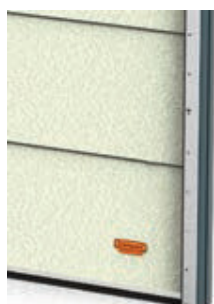
RAL 6005
moss green



RAL 7016
anthracite grey



RAL 7032
pebble grey



RAL 9002
grey white



RAL 9006
white aluminium



RAL 9007
grey aluminium



RAL 9016
traffic white

Printing colors can deviate and are just guides.

Rectangular Windows

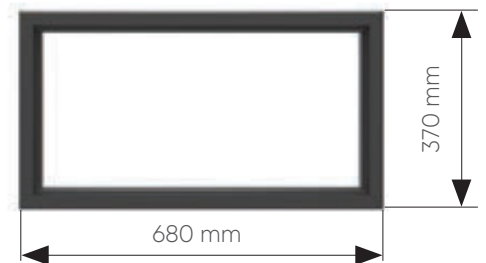


PANEL SPECIFICATIONS

Window insulated acrylate with black plastic cover.

- Net glass surface: 0.18m^2
- Insulation value: $U=2.8\text{ W/m}^2\text{K}$
- One window per meter panel.

DIMENSIONS



DETAIL



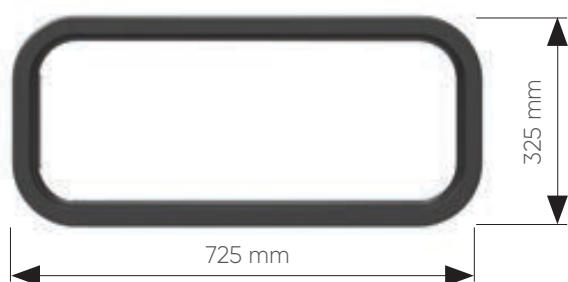
Oval Windows

PANEL SPECIFICATIONS

Window insulated acrylate with black plastic cover.

- Net glass surface: 0.17m²
- Insulation value: U=2.8 W/m²K
- One window per meter panel.

DIMENSIONS



DETAIL



Full Vision Panels



PANEL SPECIFICATIONS

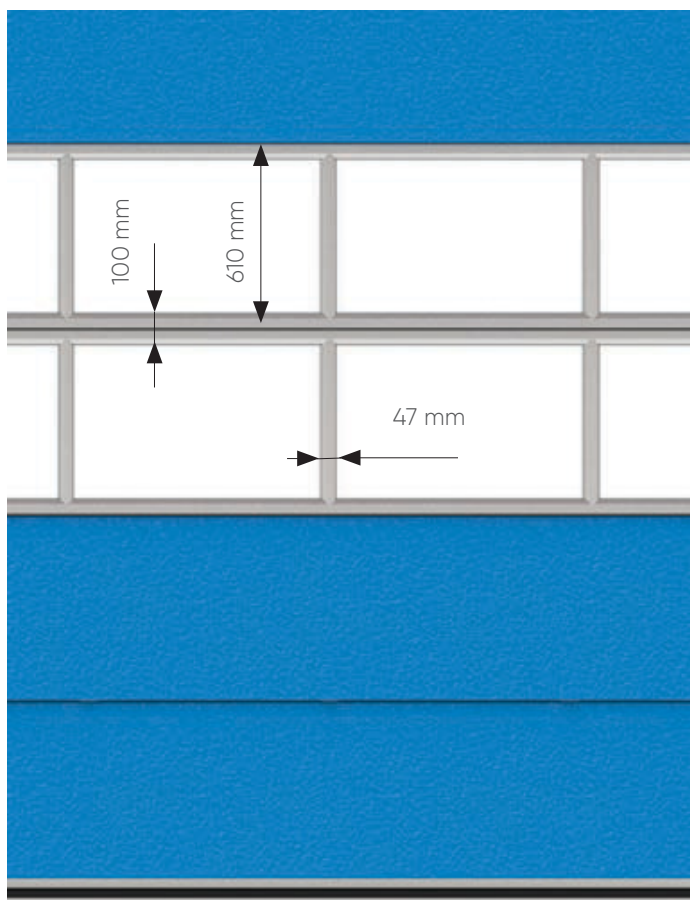
Aluminium profiles with vertical sections and fillings of choice.

- Standard finish anodized aluminium or RAL 9002
- Other RAL colours possible.
- Thickness - 40mm
- Height - 610mm
- Top panel height variable, minimum 135mm.
- Fillings of choice.
- Number of fillings is variable and of choice.

DIMENSIONS

- From 6000mm opening width, a maximum of two full vision panels is possible in door blade.
- The maximum width for a full vision panel is 7000mm.





SPECIFICATIONS

- Full vision panel with fillings of choice.
- On the inside of the door blade, white plastic click-lists with rubber seals are used to fix the fillings in place.
- These click lists are suitable for fillings of 4mm or 17mm thickness.



FILLING 4MM

- Single acrylate
- Single polycarbonate
- Single safety glass
- Stainless steel netting



FILLING 17MM

- Insulated acrylate
- Insulated polycarbonate
- Insulated polycarbonate
- twin-wall
- Insulated sandwich



DELIVERY OF PLASTIC CLICK-LISTS

- For filling of 4mm.
- For filling of 17mm.

Full Light Panels

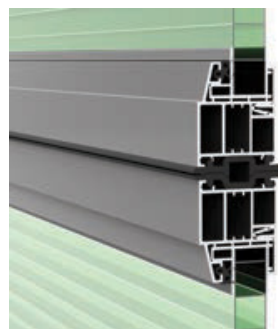


PANEL SPECIFICATIONS

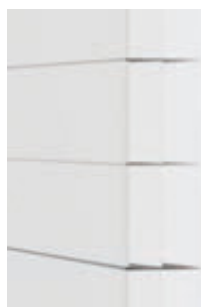
Aluminium profiles without vertical sections, filling twin-wall polycarbonate.

- Standard finish anodized aluminium or RAL 9002
- Other RAL colours possible.
- Thickness: 40mm
- Height: 610mm
- Top panel height variable, minimum 135mm.
- Transparent insulated polycarbonate twin-wall.

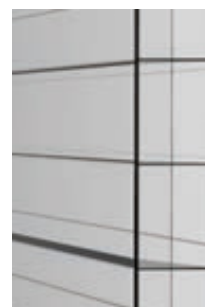
The full light door blade is made of transparent lightweight polycarbonate break resistant panels. A combination with solid sandwich panels or full-vision panels is possible.



Cross View



Clear



Opal



Green



Best Design Award

Ventilation Gratings



SPECIFICATIONS

- Anodized aluminium
- Air permeability net 452 cm²

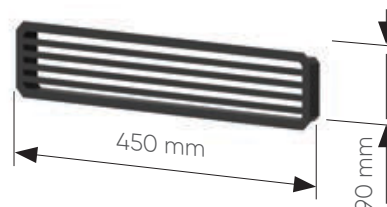
DIMENSIONS



SPECIFICATIONS

- Black plastic
- Air permeability net 215 cm²

DIMENSIONS



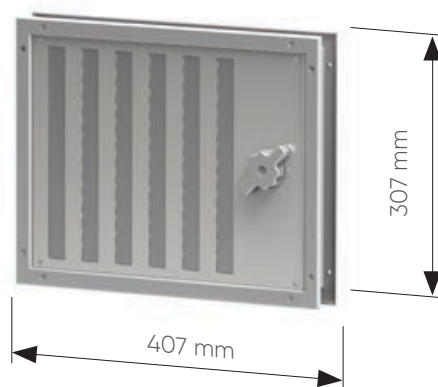
— Lockable Ventilation Gratings



SPECIFICATIONS

- Aluminium RAL 9010 (white).
- Lockable
- Air permeability net 185cm²

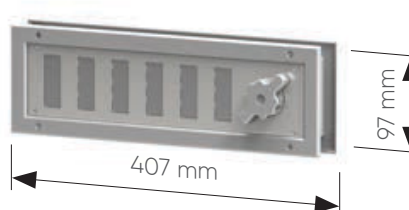
DIMENSIONS



SPECIFICATIONS

- Aluminium RAL 9010 (white).
- Lockable
- Air permeability net 45cm²

DIMENSIONS



Wicket Door

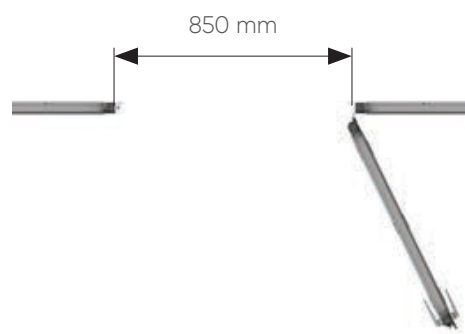


SPECIFICATIONS

The wicket door aluminium profiles will be delivered in anodized aluminium finish.

DIMENSIONS

- Net opening width 850 mm.
- Height (from floor level) 2100 mm
- Threshold ± 120 mm



CLOSURE

- Door closer on bottom panel.
- Door catcher on top panel.
- Lock in panel 2.
- Rubber seal in door frame.

SAFETY

Electrical safety switch integrated in the door frame prevents the door running automatically when the wicket door is open.

POSITION WICKET DOOR

Hinge side, opening side and position of wicket door in the door blade see page 17.

POSITION FULL VISION PANELS

Between 4000 – 6000mm opening width full vision possible only from panel number 3.

Wicket Door Positions

1. hinge left
outside opening



2. hinge left
inside opening



3. hinge right
outside opening



4. hinge right
inside opening



INSIDE



INSIDE



INSIDE



INSIDE



LEFT



RIGHT



MIDDLE

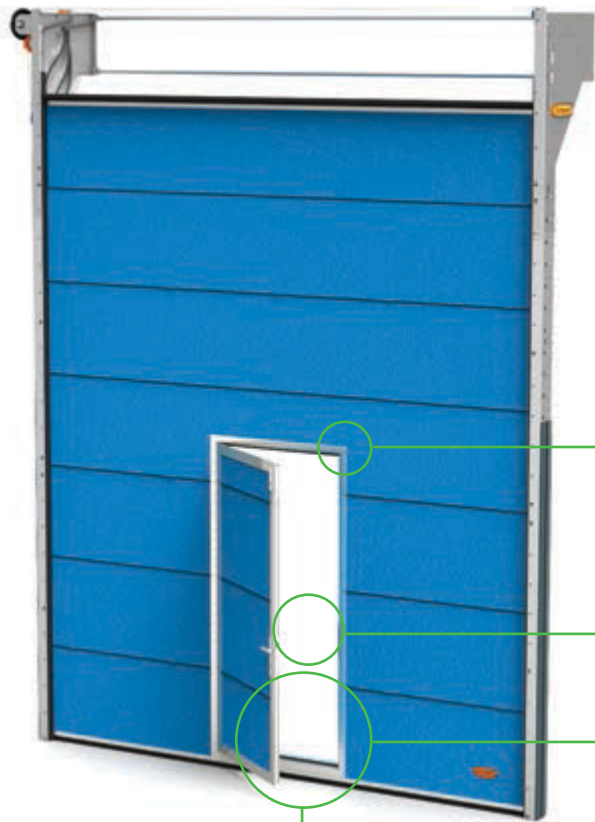


MIDDLE



Wicket Door Detail

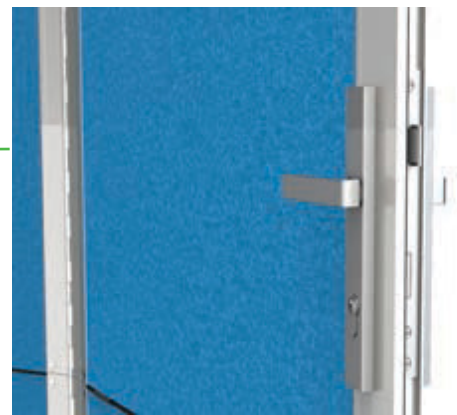
DOOR CATCH (TOP PANEL)



DOOR CATCH (TOP PANEL)



DOOR LOCK AND HANDLE



SAFETY SWITCH



90MM EXTRA TOP SPACE REQUIRED FOR:

- 50mm for special bottom profile
- 40mm for door closure installed on bottom

KABA (Option)

EURO CYLINDER LOCK

Cylinder 30/35 with 3 keys

ANTI PANIC LOCK (OPTION)

Cylinder 30/35 with 3 keys



Fixed Frame Wicket Door



OPTION

- Anti panic lock
- KABA lock



SPECIFICATION

A side door inclusive galvanized steel frame. This door can be installed next to the Compact door that looks the same.

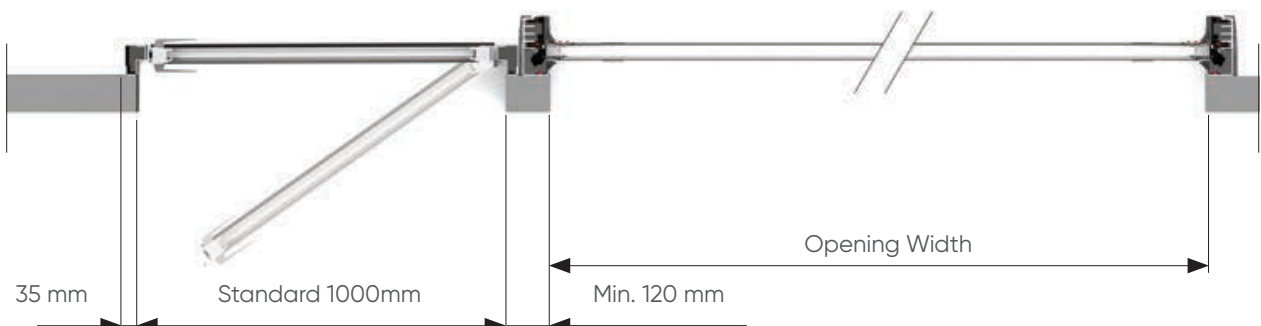
Opening dimensions for side door: 1000mm x 2450mm (WxH) with fascia panel made of door panels. The side door does not have a threshold.

Delivery includes a door closer and standard hardware with cylinder lock. The opening is always facing the outside of the building.

CONSTRUCTION (BY OTHERS)

For installation of the Compact Door tracks and side door frame, an installation frame of 120mm minimum is required.

DIMENSIONS



Standard Safety Features

GENERAL

Safety regulations and norms EN-12604 en EN 12453
Delivery according EURO norm EN 13 241-1 and CE-certificate

SLACK CABLE DEVICE

Motor will be disconnected when cable tension is gone.

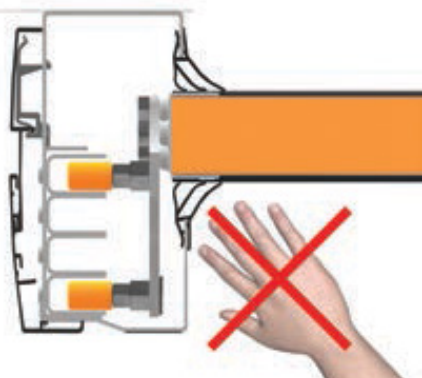


SIDE RAIL COVERS

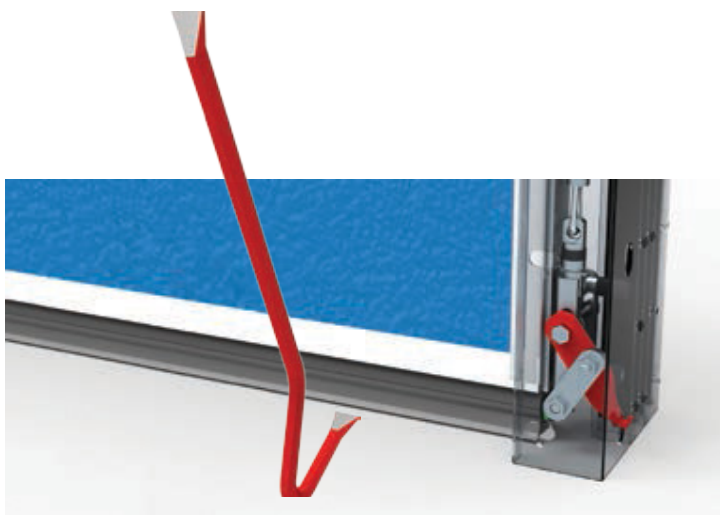
Plastic covers to protect the holes on the side rails and to avoid injury.

FRONT RAIL COVERS

Safety covers with warning tape to prevent injury to fingers and hands



FALL SAFETY DEVICE



ANTI LIFT SYSTEM, ANTI THEFT DEVICE

The door blade will be held in position automatically by the bottom brackets which will be caught in the side rail holes.

FALL MOVEMENT



FALL STOP



FUNCTION

The fall safety device prevents the door blade from falling down in case the steel cables break. The bottom brackets will be caught in the side rail holes.

Operation - Control



OPENING OF THE DOOR

After an impulse, the door will completely open automatically.

CLOSURE OF THE DOOR WITH DEAD MAN OPERATION

The supervisor who is operating the door will keep control of the closing door. In case of any dangerous situation, he will stop the door immediately.



AUTOMATIC CLOSURE OF THE DOOR WITH LIGHT CURTAIN SAFETY.

With this safety device, it is possible to close the door automatically without the supervision of an operator. The light curtain controls the door opening up to a height of 2500mm and detects obstacles.

Once the safety device is activated, the closing movement will stop and the door will go up again, thus avoiding danger to materials and personnel.

Operation – Motor



**EMERGENCY OPENER
CRANK HANDLE**

Motor and Specifications

MOTOR	RC150	RC175	RC250	RC300	RC300T
Speed (cm/sec) ¹	19 cm/sec	19 cm/sec	19 cm/sec	19 cm/sec	15 cm/sec
Voltage (Volt)	1 x 230 V	3 x 400 V	3 x 400 V	3 x 400 V	3 x 400 V
Power (Ampere)	6,5 A	2,8 A	3,3 A	3,4 A	3,4 A
Power (Kilowatt)	0,75 kW	0,75 kW	1,1 kW	1,3 kW	1,3 kW
Frequency (Hertz)	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Plug (neutral not necessary)	2-pin, 16A	5-pin, 16A	5-pin, 16A	5-pin, 16A	5-pin, 16A
Potential free contact	4	4	4	4	4
Duration(%) ²	25%	60%	60%	60%	60%
Cycles (open/close) per hour	12x	20x	20x	20x	20x
Protection class	IP54	IP54	IP54	IP54	IP54
Max Weight Doorblade (kilogram)	155 Kg	190 Kg	275 Kg	389 Kg	455 Kg

¹The Compact door is also available as a high speed door. Opening speed till 60cm/sec. (see page 35)

² The switch duration is an indication of the number of door cycles. In case of intensive use, it is possible to choose an 80% motor (30x open and closing per hour).

³The motor is standard protected against dust and water increase (IP54). In a wet environment, it is possible to choose an IP65 protection.

Standard turning direction pre-set right.

- Trafo in control 24V DC, maximum 250mA.
- Every motor is equipped with an emergency crank handle in case of power failure
Optional: it is possible to choose an emergency chain operator (see page 36).
- Cable length between motor and control box is standard 7 meter.
Optional: it is possible to choose a cable length of 15 meter.
- Other motor types on request (3x230V or 60Hz).

Dimensions and Detail - Measurements

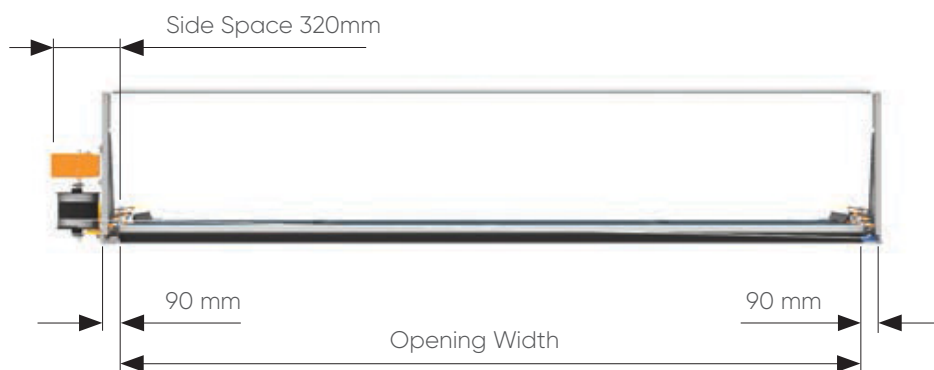


Extra top space required for Top motor – Front motor – Protection shield – Wicket door

Side View



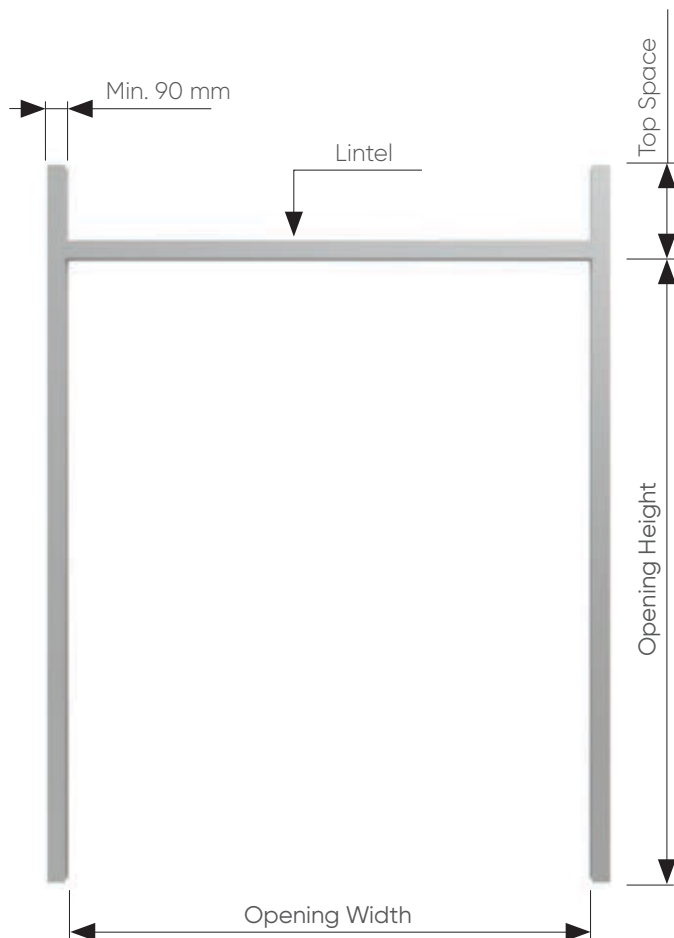
Top View



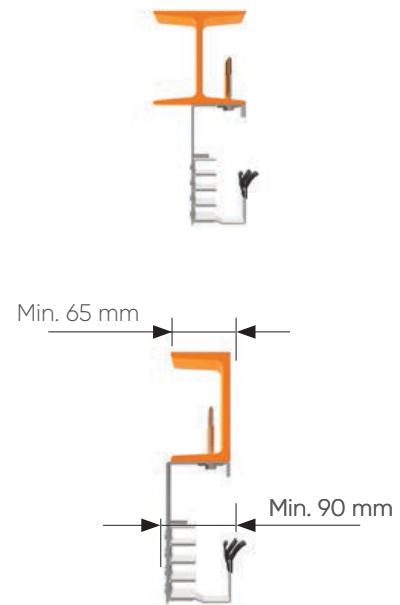
MEASUREMENTS

H (mm) min.(<) - max.(>)	D (mm)	F (mm)
0 < h ≤ 3080	410	140
3081 < h ≤ 4300	520	160
4301 < h ≤ 5520	630	180
5521 < h ≤ 6740	770	200
6741 < h ≤ 7960	890	220

Dimensions and Detail - Installation Frame



Detail



INSTALLATION FRAME

For installation, the lintel is not necessary. Only to protect the building against weather influences. The top seal needs a surface to close.

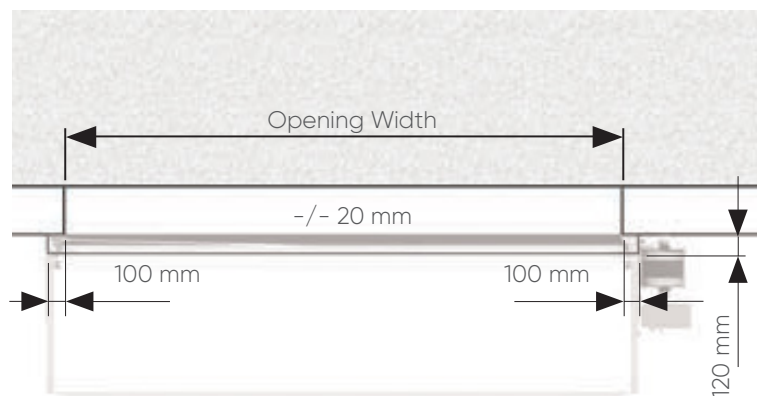
SPECIFICATIONS

We advise a threshold on the bottom to prevent water from entering the building.

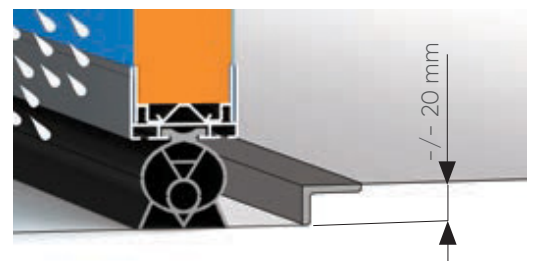
INSTALLATION FRAME

Installation frame has to be stable, flat and square. Installation on steel, stone, concrete or wood possible.

THRESHOLD

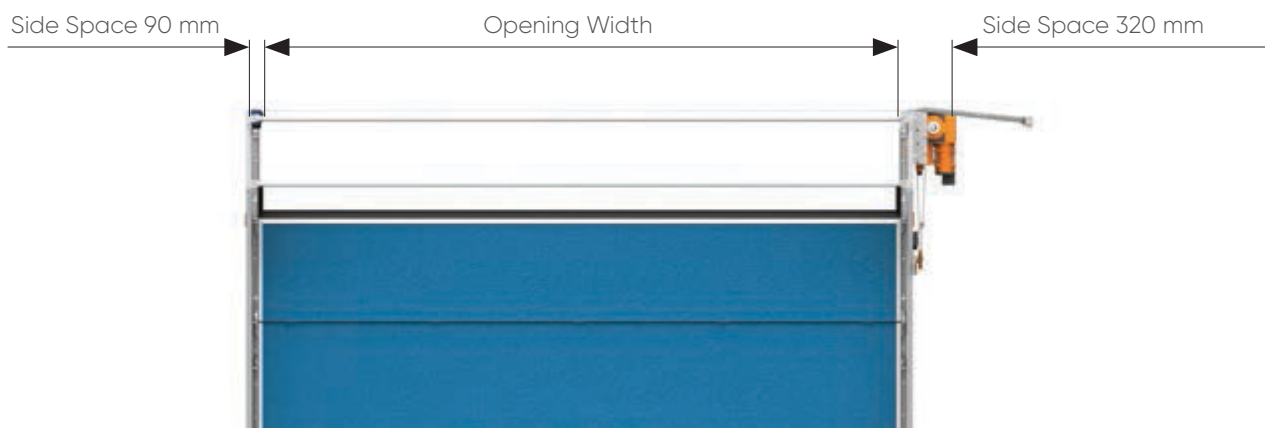


Side View

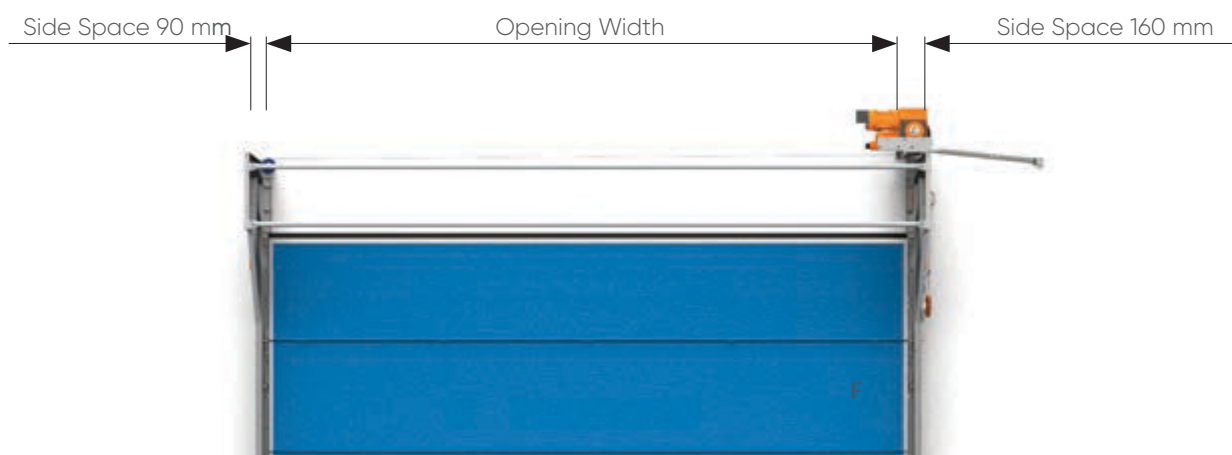


— Dimensions and Detail - Motor

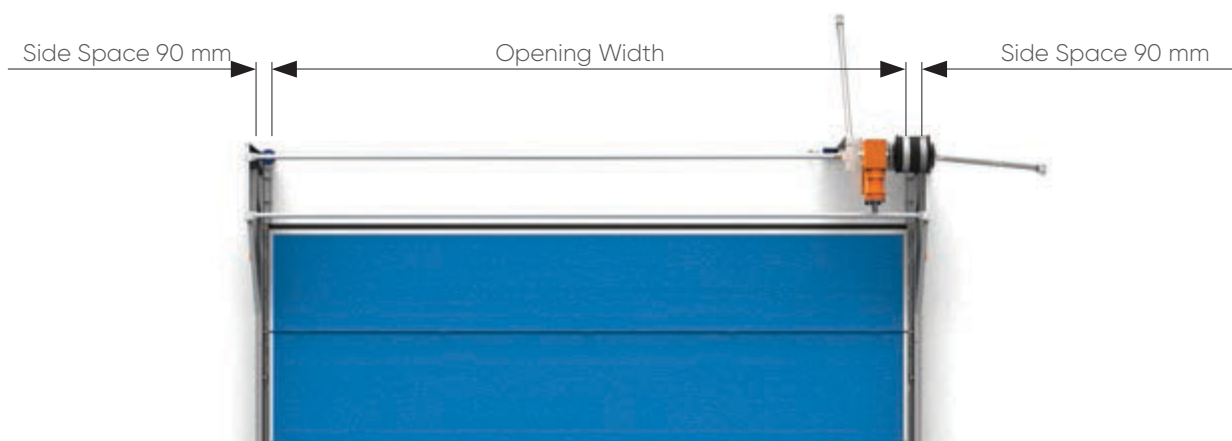
Side Motor



Top Motor



Front Motor



SPECIFICATIONS

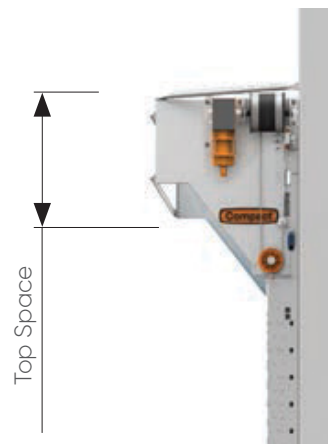
Side Motor Parts Set

- Standard

DETAIL



Side Motor



SPECIFICATIONS

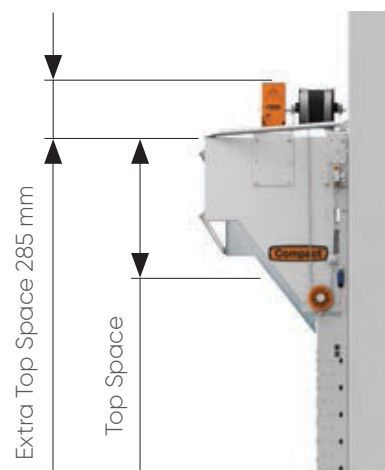
Top Motor Parts Set

- Necessary when the side space is restricted and enough top space is available.

DETAIL



Top Motor



SPECIFICATIONS

Front Motor Parts Set

Necessary when less than 320mm side space is available and restricted top space is available.

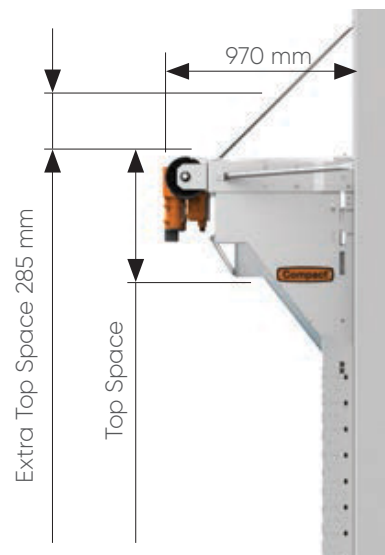
LIMITS

- Maximum weight of the door blade is 275kg
- Maximum opening height is 5520mm

DETAIL

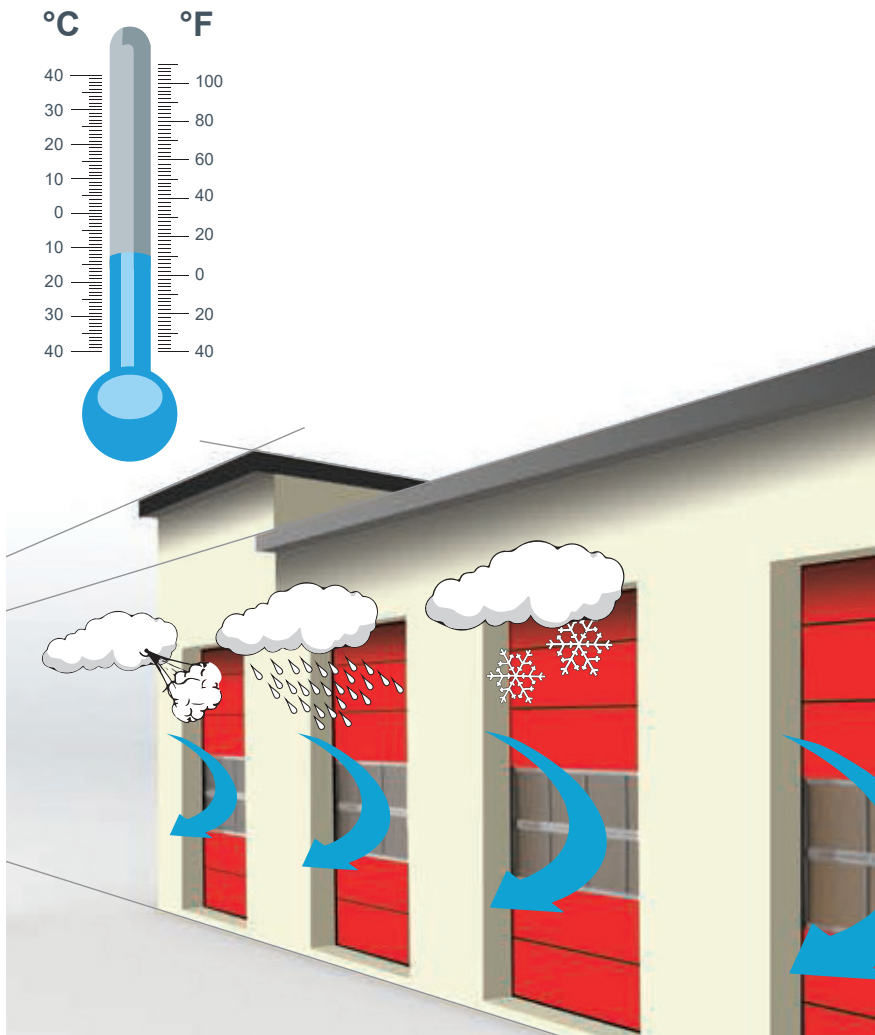


Front Motor

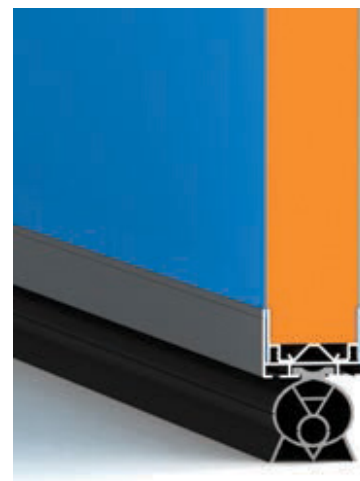


Sealings

Optimum Closing and Insulation



Bottom-Rubber



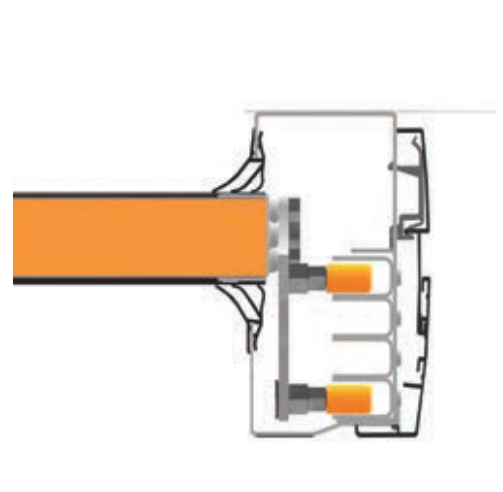
Intermediate Seal



Intermediate Seal



Side Seal



Accessories - External Installation



SPECIFICATIONS

- Maximum opening width up to 5000mm.
- Protects door blade, motor and moving parts of the door.
- Extra top space 60mm.
- Finish in powder coat RAL color of choice.
- Only in combination with a side motor possible. (not with top- or front motor)

EXTERNAL INSTALLATION

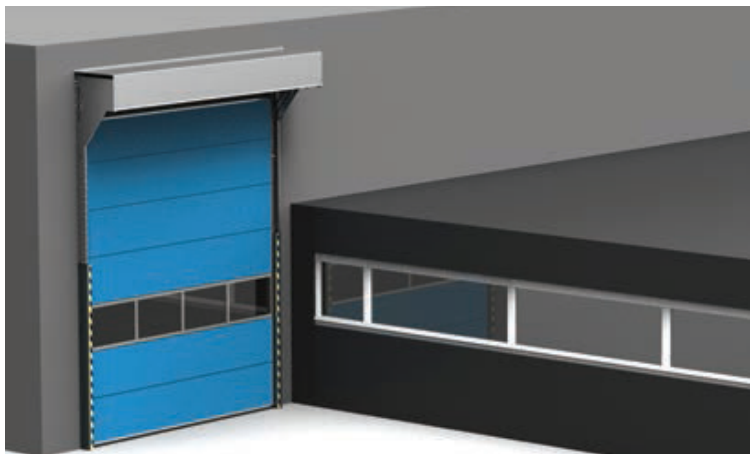
Front Motor Parts Set

Because of the folding rail system of the Staching Sectional Door, the door is also suitable for external installation. In this situation, the door should be protected against weather influences like moisture, water, rain and snow.

ADVICE

Protection shield, powder coated rails, hardware and motor IP65.

DETAIL



OUTSIDE INSTALLATION



— Accessories - Fascia Panel

Sandwich Fascia Panel



Side View



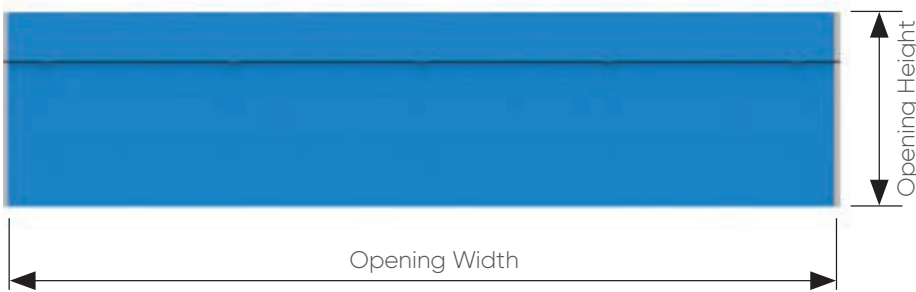
Full Vision Fascia Panel



Side View



Sandwich Fascia Panel



SPECIFICATIONS

Sandwich fascia panels similar to the door panels are used.

Delivery in 10 standard colours or colour of choice.

Delivery includes aluminium U-profiles.

Full Vision Fascia Panel

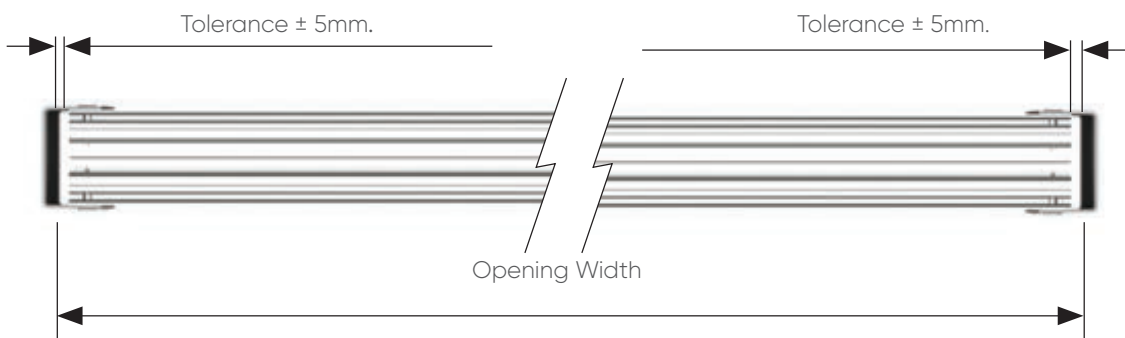


SPECIFICATIONS

Full vision panels similar to the door panels are used.

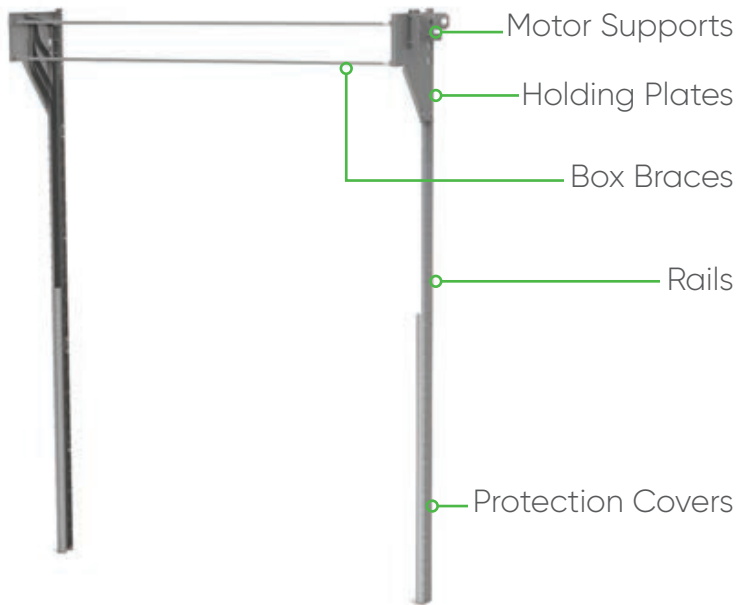
Delivery in 2 standard colours (anodized aluminium or RAL 9002) or in a RAL colour/filling of choice.

Delivery includes aluminium U-profiles.



Accessories - Powder Coating

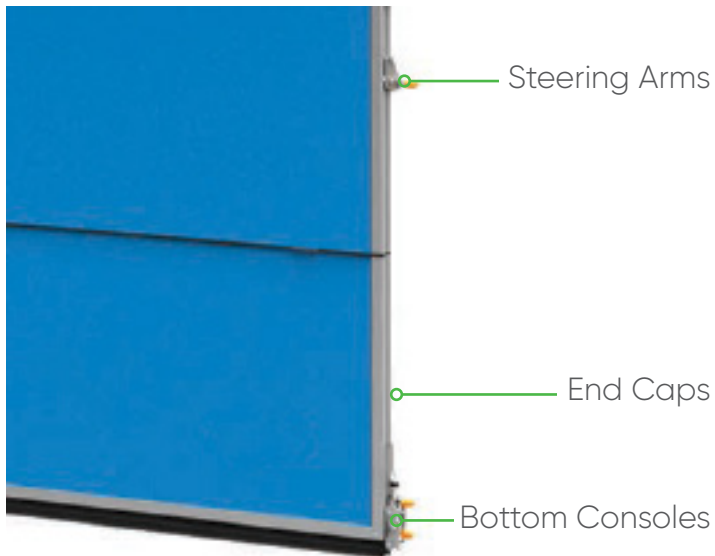
Sandwich Fascia Panel



RAIL SYSTEM

Powder coated parts for extra protection or for aesthetic reasons.

RAL colour of choice



HARDWARE

Powder coated parts for extra protection and/or aesthetic reasons.

RAL colour 9006

TOP - BOTTOM PROFILE

Profiles in the same color as the door blade of choice for aesthetic reasons.



Bottom Profile

Top Profile



Accessories - Storm Protection



STORM PROFILES

The anodized aluminium profiles are positioned between the door blade panels which makes the door blade strong. With these profiles the Stacking Sectional Door is extra protected against high wind loads.

Stacking Sectional Doors from 6000mm and wider are provided with storm profiles as standard.

For other dimensions, the storm profiles are available on demand. This could be necessary in high wind areas like at the coast or mountains.

DETAIL



COLOURS

Profiles in RAL colour of choice as an option for aesthetic reasons.

SIDE VIEW



Accessories - Control Box

CONTROL BOX CS300 CLASS IP65



LED MODULE

To adjust end switches open and close position



LCD MODULE

To adjust end switches for open and close position and to program the control functions.



EMERGENCY BUTTON

In case of an emergency, the door can be stopped immediately.



CONTROL LOCK

Switch off the controls to avoid unwilling operation of the door.



SUMMER-WINTER SWITCH

Half open function for summer and winter. Also to switch off automatic time closure.



Accessories - High Speed



HIGHSPEED MOTOR WITH FREQUENCY CONTROL SYSTEM

The Stacking Sectional Door can be delivered as a high speed door.

- Opening speed adjustable to a maximum of 60cm/sec.
- Closing speed 30cm/sec.

SPECIFICATIONS HIGH SPEED MOTOR RC500R

- 3 x 400 V
- 4,7 A
- 2,2 kW
- 50 Hz
- 5-pin, 16A

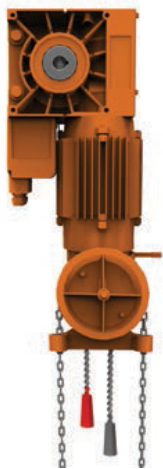
THIS MOTOR WILL BE DELIVERED WITH THE FOLLOWING OPTIONS:

- LCD monitor for programming the control system.
- Emergency chain opener in case of power failure.
- Light curtain safety
- Switch duration 80% (for intensive use, 30 cycles per hour).
- Safety class IP-65 (dust and water protected)
- Emergency button on controlbox

LIMITS

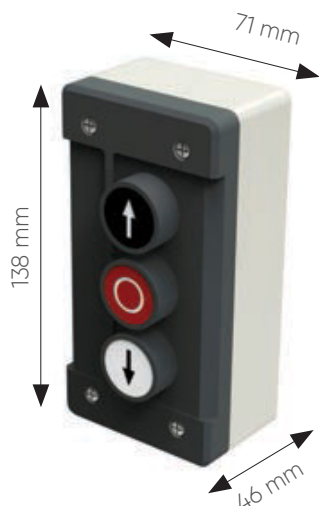
- Maximum dimension 5000x5000 (WxH)
- Maximum weight of door leaf is 190Kg.
- Only available with side motor position (minimum side space required is 350mm.)

Accessories – Activation Options



EMERGENCY CHAIN OPENER

In case of a power failure the door can be operated by hand from floor level.



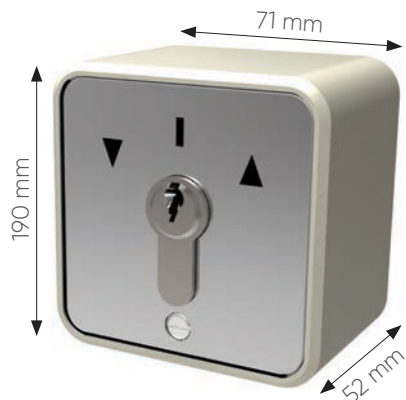
EXTRA PUSH BUTTON

Push button, Class IP65
OPEN – STOP – CLOSE.



PULL SWITCH

Class IP65.
Operation of the door from lift truck and other vehicles



KEY SWITCH

Key switch with Euro Cylinder and 3 keys, Class IP65.

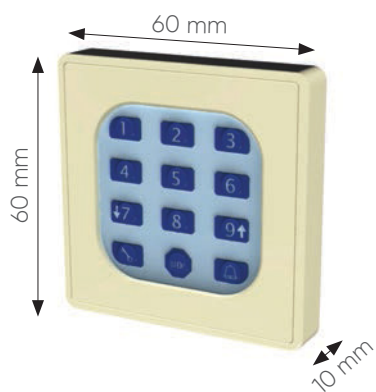
Operation by key movement.



KEY SWITCH

Key switch with Euro Cylinder and 3 keys, Class IP65.

Operation by push buttons



PIN CODE UNIT

Class IP65.

The door can be operated with a personal pin code.

Accessories – Remote Control



RECEIVER

Receiver for hand held transmitter or vehicle. Operation covers ± 20 meters. Frequency: 433 MHz.

ATTENTION

Only in combination with light curtain safety.



HAND HOLD TRANSMITTER

4-channel transmitter for maximum operation of 4 doors.

- Frequency: 433 MHz
- Inclusive clip holder



VEHICLE TRANSMITTER

99-channel transmitter for maximum operation of 99 doors.

- Frequency: 433 MHz

Accessories - Electrical

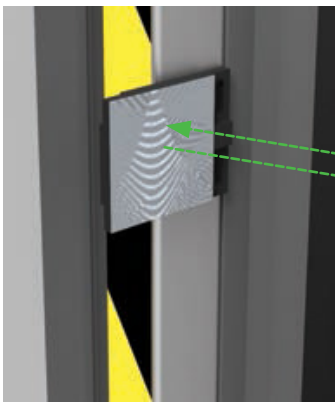


KEY SWITCH

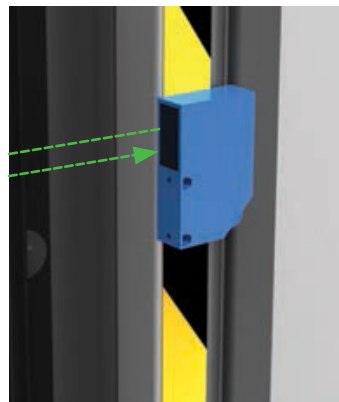
Key switch with Euro Cylinder and 3 keys, Class IP65.

Operation by key movement.

REFLECTOR



PHOTOCELL



TRANSMITTER



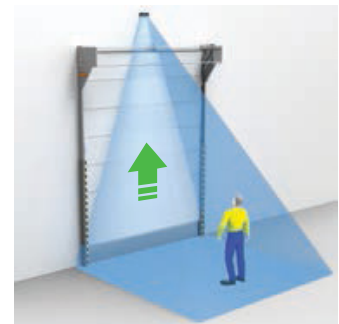
RECEIVER



RADAR

Infrared adjustable radar.

- Operation up to 5 meters.
- Class IP65



WARNING LIGHTS

Flashlight as warning system, Class IP65.

Traffic light (combinations possible)
Colours green, orange and red available

Accessories - Remote Control



AUTOMATIC TIME CLOSURE

After the door opens, it can be closed automatically after an adjustable time schedule. 0 to 600 sec.

ATTENTION

Only in combination with light curtain safety.



EXTRA RAILS

Additional vertical rails for extra height.

It can be useful to increase the height of the folding system and side rails when using a crane.

The Stacking Sectional Door

The new generation of industrial doors

light keeps on shining



fits everywhere



freedom in design



no rails on the ceiling



corner



low maintenance



no noise



cranes



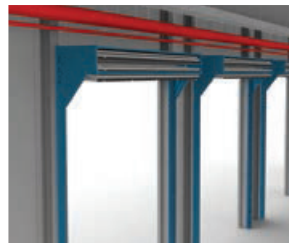
auto lift



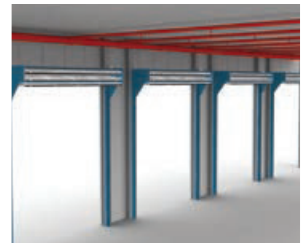
space saving



tubes



sprinkler



minimum space



external installation



high vehicles



Automotive



Industrial



Emergency Services



Notes

[illegible]



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