



TECHNICAL CATALOG

GARAGE DOORS RESIDENTIAL

August 2023



60 YEARS OF CONSUMER CONFIDENCE!!!

Over the past six decades, La Toulousaine has developed extensive expertise in developing reliable products of the highest quality.

Our experts and industrial facilities are located at our Toulouse site. Our frequently patented accessories are extensively trialed at our test center. Three hundred technicians, designers, operators and customer service personnel work together to better respond to your needs: every problem has its solution!

We have sixty years of experience, which we have leveraged to establish the largest network of recommended professionals in France. A premium product deserves high-quality installation.

La Toulousaine is a French company that has already manufactured and installed over one million products in Europe, making it the industry benchmark for high-end products.



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GARAGE DOOR PACKING AND HANDLING

NUMBER OF PALLETS DELIVERED PER ORDER

- 1 pallet if <5 panels
- 2 pallets if >5 panels

We position the operator pack at the top or side of the pallet, depending on the dimensions of your door.



Pallet before wrapping



Pallet after wrapping

PACKING AND HANDLING

We store the pallets on racks before loading onto a delivery truck. We deliver our products to our customers' premises with a forklift truck.



Delivery truck



Pallets on racks



Forklift truck

GOODS RECEPTION AND UNPACKING INSTRUCTIONS

UNPACKING INSTRUCTIONS

Take the time you need to open and check the pack/pallet. Do not let yourself be intimidated by the driver. If the delivery person does not want to wait, write "the delivery person did not want to wait" on the slip and ask him or her to sign it.

If any product is damaged, note your reservations down on the delivery slip. You must describe the damage as clearly as possible. Simply writing "subject to unpacking" will have no value.

NO CLAIM WILL BE ACCEPTED for any product damaged during transport IF IT IS NOT INDICATED ON THE RECEIPT.

Any claim made after signing the delivery slip will be systematically rejected. It will not be possible to exchange or refund such products.

In addition to recording your reservations, you must take photos of the damaged packaging and product. Find the order number shown on the pack and contact the transport department immediately to ask what you should do. You will need to send your photos with a description of the damage to the transport department.



DAMAGE DETECTED ON UNPACKING, WITH INTACT PACKAGING

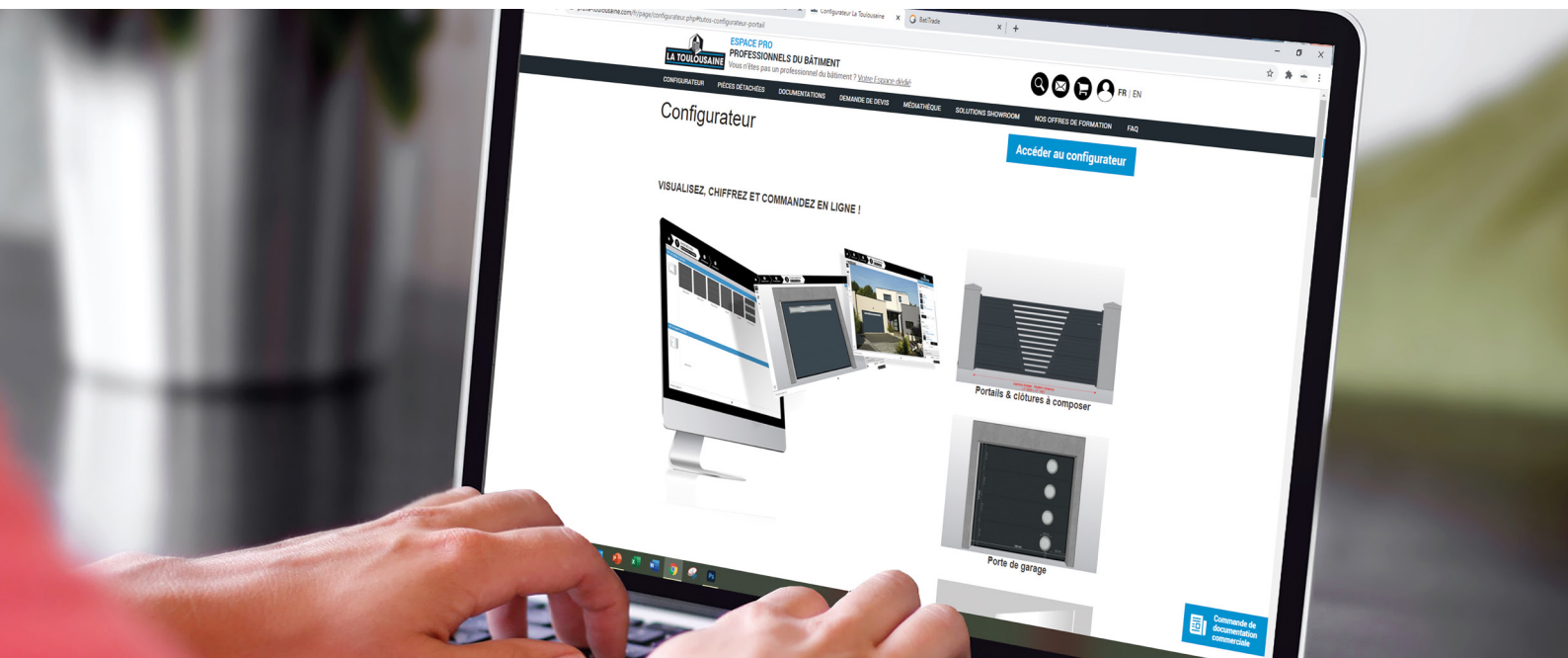
Any damage found on a product (scratches or dents on panels, gates, etc.) must be **PHOTOGRAPHED IN ITS ORIGINAL PACKAGING, TO SHOW THAT THE PACKAGING IS NOT DAMAGED** in the area in question.

You must take photographs both close-up and from a distance. Damage with no photographic evidence or on an assembled product (i.e. removed from its packaging) is not covered by the warranty.

Take a photo also of one of the pack labels showing the order number. You will need to send these photos to our customer services department. Claims for damage reported more than 30 days after receiving the goods cannot be accepted.

GARAGE DOOR CONFIGURATOR

VISUALIZE, COST AND ORDER ONLINE!



A FREE LA TOULOUSAIN CONFIGURATION SALES TOOL

- Configure and cost a project with your customer 24/7
- Integrate your sales data for direct costing
- Order online
- Manage your customer database and save their projects
- Customize the tool with inclusion of your logo, header and footer on all generated documents

HOW DOES IT WORK?

Log in to your business space to access the garage door configurator: pro.la-toulousaine.com

LA TOULOUSAINÉ PUBLIC AREA > PROFESSIONAL USER AREA >

QUOTE | SPARE PARTS | DOCUMENTATION | PHOTOS | BIM | SHOWROOM SOLUTIONS | TRAINING COURSES | FAQ | CONTACT

home > Quote

Quote

Price request for gates, fences, garage doors, balustrades, industrial sectional doors

For your **quotes** and **orders** for **gates**, **fencing**, **garage doors** and industrial sectional **doors**, use the configurator. This **web solution** is accessible from your **computer** or **tablet** in **connected mode**.

- Integrate your **sales data** for **direct quotation**
- **Order** online
- Manage your **customer database** and **save their projects** if you wish
- **Customize** the tool to your **image** : logo, header and footer of generated documents

ACCESS TO THE CONFIGURATOR

FIND YOUR OLD ORDERS AND QUOTES

SHUTTERS

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SHUTTERS FOR SECTIONAL DOORS

HOW TO CHOOSE?

A SHUTTER ==> A FINISH ==> A COLOR

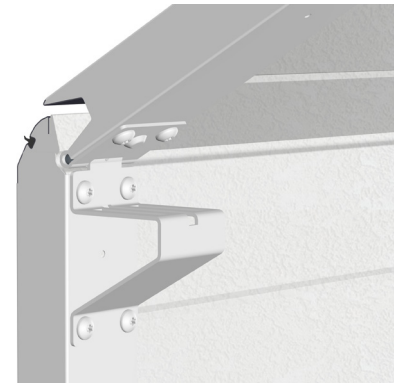
INFO

You can choose any RAL, but its interior will always be white. You can combine the 500 mm and 610 mm panels (except single-grooved panels) to achieve your desired door height.

All accessories are lacquered white, with the exception of:

- Cable anti-fall guards (Grande Villa only)
- Latches
- Upper supports (Grande Villa only).

The shutter panels are equipped with hinged "finger guard" joints in order to protect users (NF BS EN 13241:2003+A2:2016).



Finger guard

SHUTTERS FOR SECTIONAL DOORS



SHUTTERS FOR SIDE-SLIDING DOORS



PLAIN SHUTTER

Exterior / Plain
Interior / Stucco grooved (*orange peel*)
 White only
Panel height / 500 mm and 610 mm
Panels / Thickness 40 mm

SMOOTH FINISH

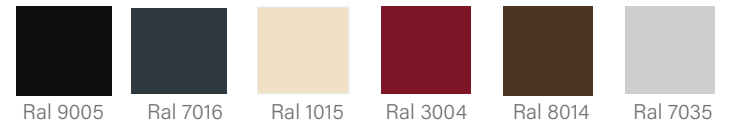


Classic

The "CLASSIC" colors are available at the price of white without additional delay.



Premium



Exclusive

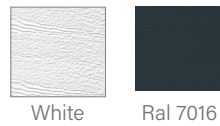


WOOD GRAIN FINISH



Classic

The "CLASSIC" colors are available at the price of white without additional delay.



Premium



Exclusive

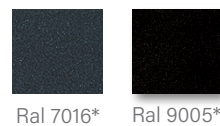


TEXTURED FINISH

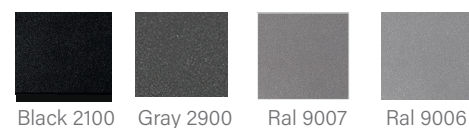


Classic

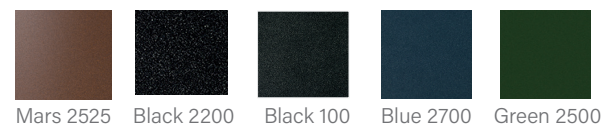
The "CLASSIC" colors are available at the price of white without additional delay.



Premium



Exclusive



SINGLE-GROOVED SHUTTER

INFO

Not compatible with a side-sliding door.

Exterior finish / 22 mm wide central groove
Interior finish / Stucco grooved (*orange peel*)
 White only
Panel height / 500 mm and 610 mm
Panels / Thickness 40 mm

SMOOTH FINISH



Classic

The "CLASSIC" colors are available at the price of white without additional delay.



White

Premium



Ral 9005



Ral 7016



Ral 1015



Ral 3004



Ral 8014



Ral 7035

Exclusive



All Ral

WOOD GRAIN FINISH



Classic

The "CLASSIC" colors are available at the price of white without additional delay.



White

Premium



Ral 9005



Ral 7016



Ral 1015



Ral 3004



Ral 8014



Ral 7035

Exclusive



All Ral



Medium oak

TEXTURED FINISH



Classic

The "CLASSIC" colors are available at the price of white without additional delay.



Ral 7016*

Premium



Black 2100



Gray 2900



Ral 9007



Ral 9006

Exclusive



Mars 2525



Black 2200



Black 100



Blue 2700



Green 2500

*Textured laminate

HIGH GROOVE SHUTTER

SMOOTH FINISH



Exterior finish / High groove
Interior finish / Stucco grooved (*orange peel*)
 White only
Panel height / 500 mm and 610 mm
Panels / Thickness 40 mm

Classic

The "CLASSIC" colors are available at the price of white without additional delay.



White

Premium



Ral 9005



Ral 7016



Ral 1015



Ral 3004



Ral 8014



Ral 7035

Exclusive



All Ral

TEXTURED FINISH



Classic

The "CLASSIC" colors are available at the price of white without additional delay.



Ral 7016*

Premium



Black 2100



Gray 2900



Ral 9007

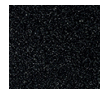


Ral 9006

Exclusive



Mars 2525



Black 2200



Black 100



Blue 2700



Green 2500

*Textured laminate

GROOVED SHUTTER

WOOD GRAIN FINISH



Exterior finish / Grooved
Interior finish / Stucco grooved (*orange peel*)
 White only
Panel height / 500 mm and 610 mm
Panels / Thickness 40 mm

Classic

The "CLASSIC" colors are available at the price of white without additional delay.



White



Ral 7016



Ral 9006

Premium



Ral 9005



Ral 7016



Ral 1015



Ral 3004



Ral 8014



Ral 7035

Exclusive



All Ral



Medium oak

SHUTTER WITH RAISED PANELS

WOOD GRAIN FINISH



Exterior finish / Raised panels
Interior finish / Stucco grooved (*orange peel*)
 White only
Panel height / 500 mm and 610 mm
Panels / Thickness 40 mm

Classic

The "CLASSIC" colors are available at the price of white without additional delay.



White

Premium



Ral 9005



Ral 7016



Ral 1015



Ral 3004



Ral 8014



Ral 7035

Exclusive



All Ral



Medium oak

Sectional door Clearance width	Number of raised panels
2,000 mm ≤ PW ≤ 2,560 mm	3
2,560 mm < PW ≤ 3,500 mm	4
3,500 mm < PW ≤ 4,000 mm	5
4,000 mm < PW ≤ 5,000 mm	6

DIMENSIONS of one raised panel: 510 x 320 mm

INFO

Not compatible with a side-sliding door.

MICRO-GROOVED SHUTTER

Exterior finish / Micro-grooved with 16 mm pitch
Interior finish / Stucco grooved (*orange peel*)
 White only
Panel height / 500 mm and 610 mm
Panels / Thickness 40 mm

SMOOTH FINISH

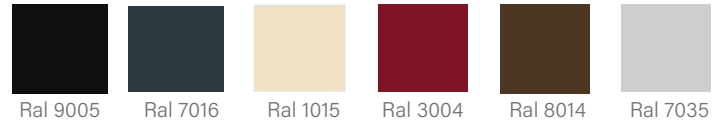


Classic

The "CLASSIC" colors are available at the price of white without additional delay.



Premium



Exclusive

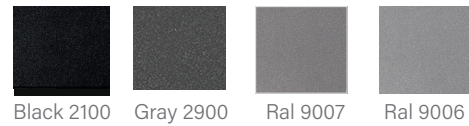


Ral lacquer of your choice

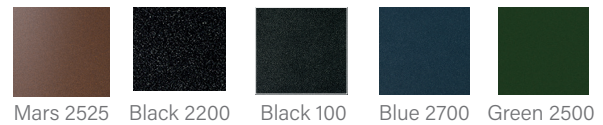
TEXTURED FINISH



Premium



Exclusive



VISIO SHUTTER

SMOOTH FINISH



Two-color RAL 9006 frame finish

Glazing	Max. PW
16 mm alveolar polycarbonate glazing 2 Colors: - Opal white - 48% light transmission - Tinted - 35% light transmission	5,000
Double-glazed impact-resistant 25 2 x 3 mm PMMA* Transparent - 92% light transmission	5,000

Exterior finish / Glazed aluminum profile and plain panel**Interior finish** / Stucco grooved (*orange peel*)

White only

Glazing: transparent, opal or tinted

Panel height / 2 x 250 mm glazed panels

+ 500 mm / 610 mm panels

Panels / Thickness 40 mm**Classic**

The "CLASSIC" colors are available at the price of white without additional delay.



White



Ral 7016

Premium

Ral 9005



Ral 7016



Ral 1015



Ral 3004



Ral 8014



Ral 7035

ExclusiveRal lacquer
of your choice

Two-color

TEXTURED FINISH



Glazing	Max. PW
16 mm alveolar polycarbonate glazing 2 Colors: - Opal white - 48% light transmission - Tinted - 35% light transmission	5,000
Double-glazed impact-resistant 25 2 x 3 mm PMMA* Transparent - 92% light transmission	5,000

Classic

The "CLASSIC" colors are available at the price of white without additional delay.



Ral 7016*



Ral 9005*

Premium

Black 2100



Gray 2900



Ral 9007



Ral 9006

Exclusive

Mars 2525



Black 2200



Black 100



Blue 2700



Green 2500

*Textured laminate



Two-color

INFO

Not compatible with a side-sliding door.

SOME POINTERS

ROUGH COST ESTIMATE

SHUTTER	FINISH	CLASSIC*						PREMIUM								EXCLUSIVE						
		White	RAL 7016	RAL 9006	RAL 9005	Black 2100	Black 2100	Gray 2900	RAL 9007	RAL 9006	RAL 9005	RAL 7016	RAL 1015	RAL 3004	RAL 8014	RAL 7035	Mars 2525	Black 2200	Black 100	Blue 2700	Green 2500	All RAL
Plain	Smooth																					
	Grained																					
	Textured																					
Grooved	Grained																					
Single-grooved	Smooth																					
	Grained																					
	Textured																					
Micro-grooved	Smooth																					
	Textured																					
High groove	Smooth																					
	Textured																					
Visio	Smooth																					
	Textured																					
Raised panels	Grained																					

* The "CLASSIC" colors are available at the price of white without additional delay.

INSULATION

- Panel U-value: 0.51 W/m₂K
- Polyurethane foam: CFC-free (blowing agent)

PANEL PROTECTION

- Sendzimir galvanization process
- 10-micron polyester primer
- 25-micron polyester lacquer (White)

LOCKING SYSTEM

- Side latch on manual doors (optional on motorised doors)
- Lock (optional)

WIND-RESISTANCE CLASSIFICATION (NF BS EN 13241:2003+A2:2016)

- Doors with extension or torsion springs without wicket door: Class 2 to 4, depending on dimensions
- Doors with extension or torsion springs with wicket door: Class 2

FIRE-RESISTANCE CLASSIFICATION

- 13501-1 certified panels: 2007 + A1: 2009
- European classification for the manufacture of fire-resistant and reaction-to-fire construction products: B-s2, d0 (M1) (5 categories ranging from M0 for non-combustible to M4 for the most flammable materials)

IN PICTURES

SHUTTERS



Plain



Single-grooved



High groove



Grooved



Raised



Micro-grooved



Visio

ACCESS RANGE

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SECTIONAL DOORS ACCESS RANGE

DESCRIPTION

The Access range offers a selection of simple, entry-level La Toulousaine products. All doors are motorised with extension springs and have the following characteristics:

FIXED WIDTH	2,400 - 2,500 - 3,000 - 3,500
FIXED HEIGHT	2,000 - 2,125-2,250
SHUTTERS	All with standard shutters (details p.16) (except for a shutter with raised panels and some shutters with a Medium Oak finish)
MOTORIZATION	TD 500 (two 4-function transmitters) - Somfy RTS & IO - Liftmaster
AVAILABLE OPTIONS	Security kit - Omega stiffener kit - Rod extension - Threshold - Release lock - Protective housing - Tandem roller (option at no extra cost)
OPTIONAL ACCESSORIES	Wireless 10-function keypad - Fingerprint reader

PRE-ASSEMBLED DOORS

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PRE-ASSEMBLED SECTIONAL DOORS

DESCRIPTION

PRE-ASSEMBLED GARAGE DOORS (OPTIONAL)

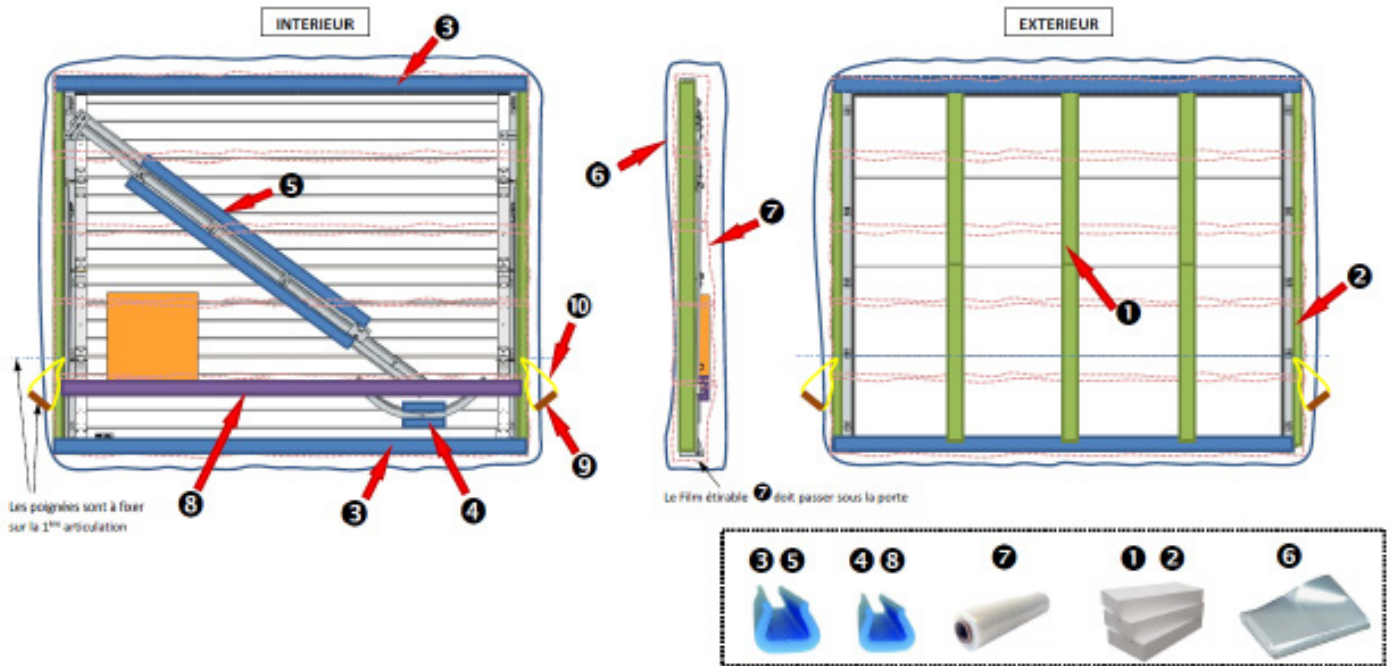
DELIVERED INDIVIDUALLY OR IN PACKS OF 4*

- RE100 only
- PW: 2,400 mm and 2,500 mm
- PH: 2,000 mm and 2,125 mm
- All panels except K7 and Medium Oak
- Manual or Motorised
- Operators: Sommer, Somfy and Liftmaster
- No wicket door
- Z hinges or tandem
- Options: all (patterns, windows, etc.)
- Lacquered at extra cost
- 2 packs if operator

*Doors delivered in packs of 4 are the same size.

PRE-ASSEMBLED DOORS DELIVERED INDIVIDUALLY

WRAPPING

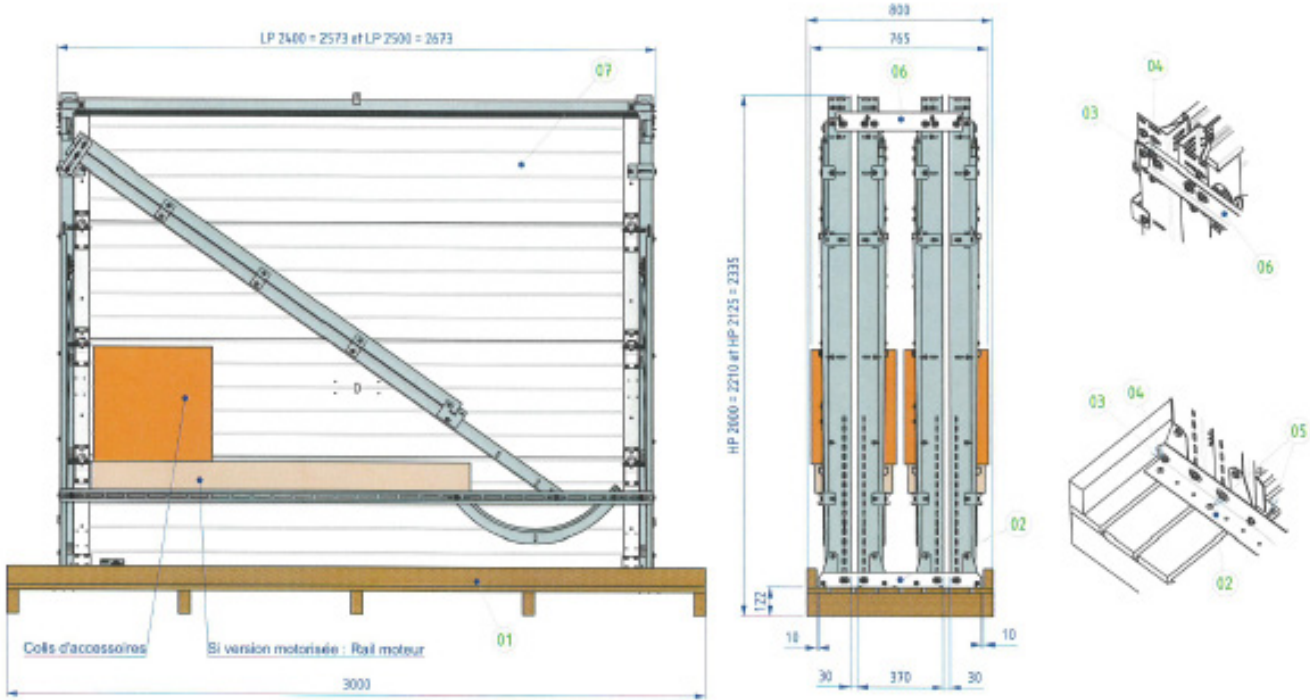


rep	Name	Qty
1	Polystyrene bar D=10 KG 1,200 x 100 x 50 mm	6
2	Polystyrene bar D=10 KG 1,200 x 100 x 50 mm	4
3	Blue PE foam profile U72/120 L=2 m	3
4	Blue PE foam profile U60 L=2 m	0.2
5	Blue PE foam profile U72/120 L=2 m	1
6	KG LDPE FILM RETRAC 160MIC LAIZE 2300	6.2 m
7	19 µ stretch wrap 450 mm x 270 m	50 m
8	Blue PE foam profile U60 L=2 m	1.5
9	Blue pneumatic hose 12 x 19	0.22 ml
10	12 mm wide gray strap	1.3 m



PRE-ASSEMBLED DOORS DELIVERED IN PACKS OF 4

WRAPPING



rep	Name	Qty
7	Pre-assembled RE100 rails, wrapped	4
6	Upper connecting plate - Pre-assembled x4 - RE100	2
5	SK integrated washer Ø6 x 30 mm - AW30 end-piece	26
4	HE M8 nut with notched base - Yellow	16
3	TPCC_ M8x12 - Square, thickness 2 mm	16
2	Pallet attachment bracket - Pre-assembled RE100 doors	2
1	800 x 3,000 pallet - Pre-assembled doors	1



RE100 EXTENSION SPRINGS

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RE100 SECTIONAL DOORS WITH EXTENSION SPRINGS

DESCRIPTION

SHUTTERS

The door is compatible with all our shutters. More details on page 09.



GARAGE DOORS ACCORDING *
TO CONFIGURATION

V₄E₁M₊SO₁A₂H₃

LIMITS OF USE

	ALL SHUTTERS
PASSAGE WIDTH (PW) MIN.	1,800 mm
PASSAGE WIDTH (PW) MAX.	5,000 mm
PASSAGE HEIGHT (PH) MIN.	1,800 mm
PASSAGE HEIGHT (PH) MAX.	3,000 mm
WEIGHT LIMIT	40 to 150 kg

- For single-family homes
- Harmonizes with all homes
- Closes a garage
- Insulates and protects
- Intuitive installation
- No external overhang
- Manual or motorised operation
- Can be used in complete safety
- Low overhead height

TYPES OF DISCHARGE

Extension springs (ES): Overhead height (OH) min. = 100 mm, for manual or motorised version (depending on the configuration)

INFO

All our doors comply with the requirements of designated standard NF BS EN 13241:2003+A2:2016
A false header and false reservations are available to adapt to a lower overhead height or reservation

COMPENSATION SYSTEM AND GUIDES

Guides:

- Assembly of green/horizontal rails with screws and nuts
- Vertical rail support (backstop) in 1.5 mm galvanized steel
- Double horizontal rails in galvanized steel (Z275)
- The curves are reversible (separate pack) and equipped with "tulips" to improve and guarantee a good connection between the rails.
- Traditional nylon roller with ball bearings or tandem roller (optional at no extra cost)
- Door drive with 4 Ø3 mm cables
- Equalization of RT200 and RE100 vertical and horizontal rails
- Simple conversion of an RT200 door to an RE100 door



Traditional roller

Spring in the side rail and tandem rollers

*NF garage door dimensions: max. passage width 3,000 mm; max. passage height: 2,250 mm.

RE100 COMPENSATION SYSTEM

- Duplex spring (4 springs each side) in the side rails
- 40 springs for optimum balance
- Factory-fitted springs, cables and pulleys

SEALING

- 2-lip seal on rail and header; frame is black because covered by the seal
- 2-lip seal on bottom panel

TYPES OF OPERATION

- Manual operation by direct pull
- Motorised operation by "push-pull" operator with anti-crush/anti-lifting device protection (NF EN 13241 + A2)

MODES OF OPERATION

Pulse operation:

- Control device requiring a brief manual action to initiate movement: open, stop or close
- You must take two additional factors into consideration:
 - The user: trained*
 - The installation site: whether or not it is in a public area

=> In the case of our operators, these two factors suffice, there is no need for an additional safety accessory if the door is operated in full view of the user. In public areas, where the door is operated out of sight, you must fit 2 mandatory sets of cells.



INFO

- * A user is considered to have been "trained" if the installer has given them the manufacturer's instructions on how to use the product.
- The designated standard EN 13241 + A2 requires that a user guide and a maintenance logbook (+ removal instruction leaflet) be provided with each installation.

Standard:

- All our doors have been inspected by a notified body and are CE marked (NF EN 13241 + A2).

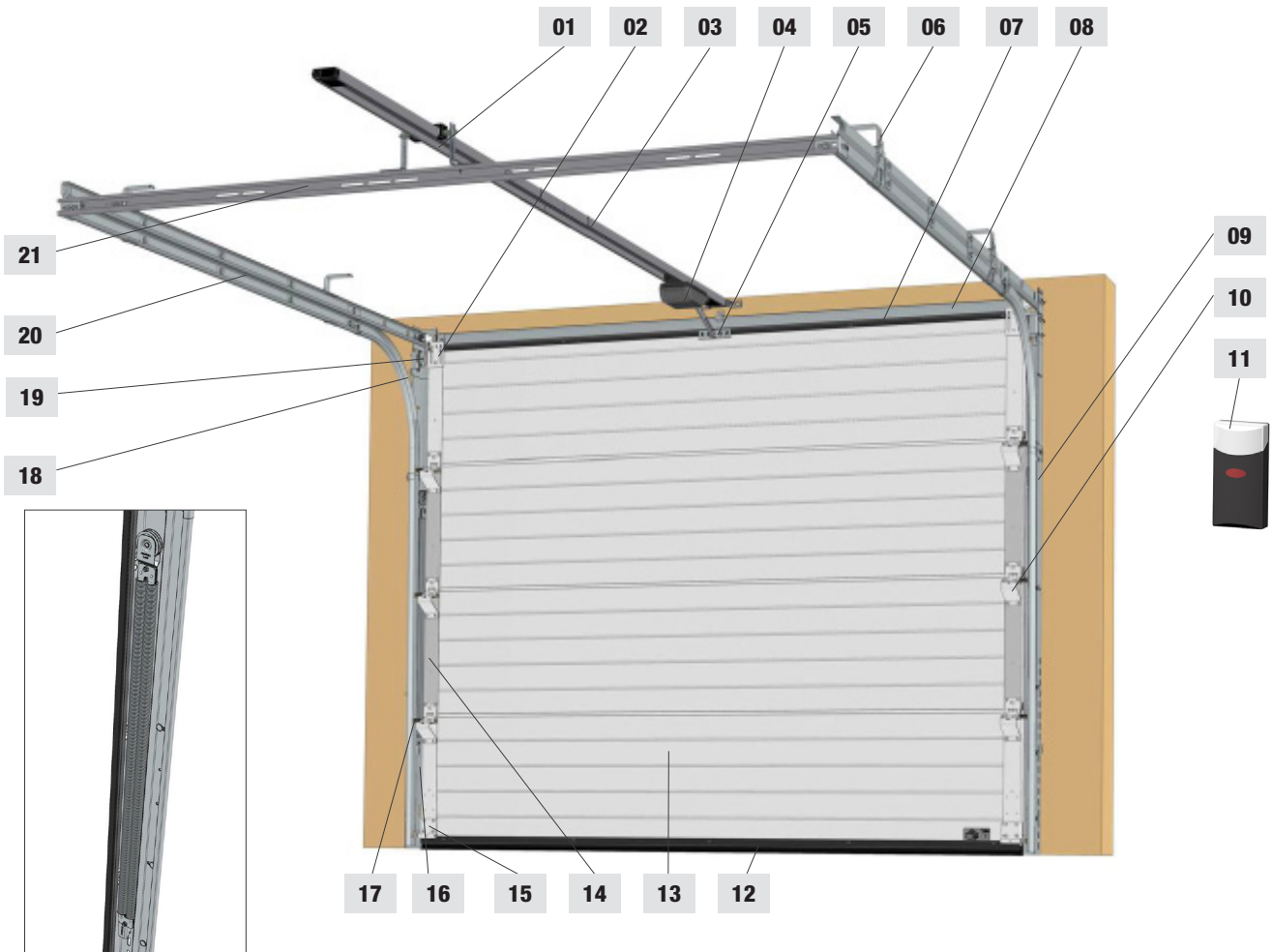
OPTIONS

- Windows, colors (180 RAL), 2-point lock, ventilation grilles, pet door, letter box, external operator release, etc.
- False header and false reservations (cladding)

More details on page 61

PARTS LIST

RE100 EXTENSION SPRINGS

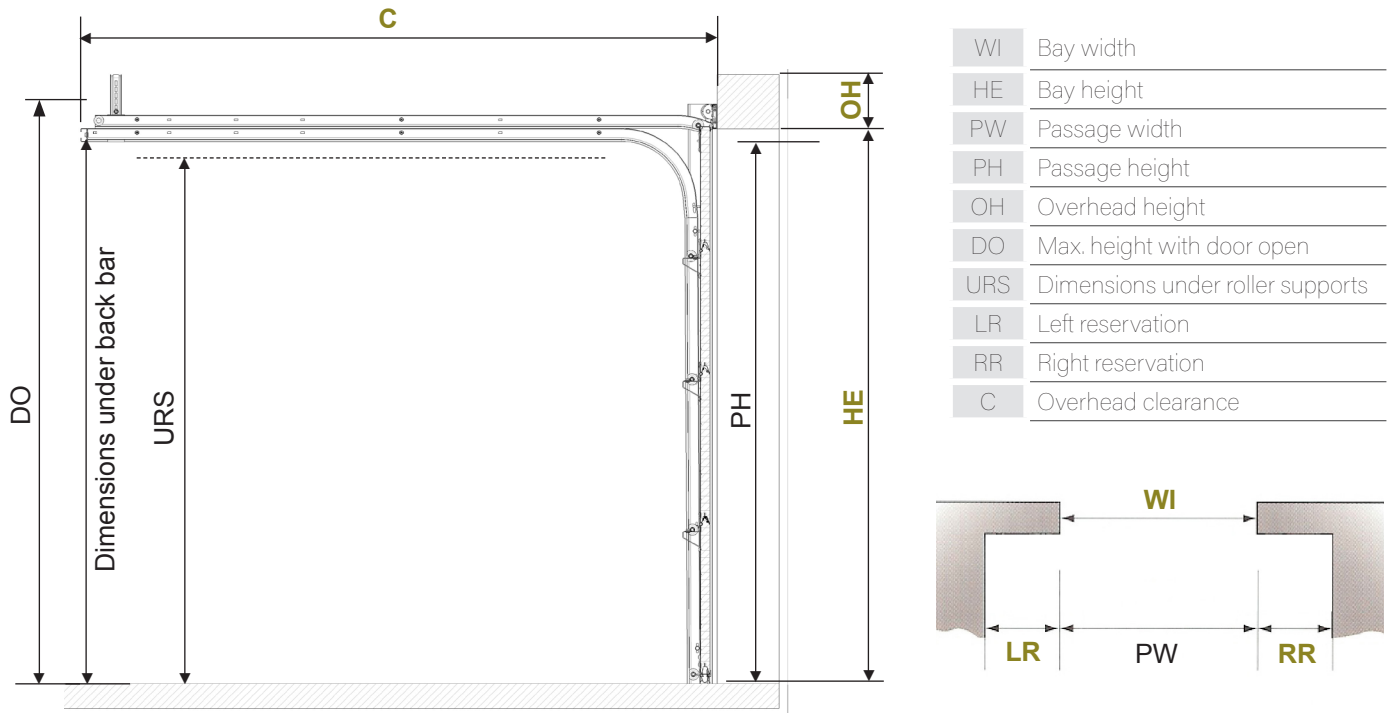


Duplex springs (2x2)

1	Operator rail support	11	Operator control box (Sommer)
2	Top roller support	12	Bottom seal
3	Operator guiding rail	13	Insulated double-wall panels with finger guard
4	Operator carriage	14	Edged column
5	Operator/shutter connecting bracket	15	Low suspension
6	Rail hanger (corresponding to OH ≤ 440 mm)	16	Duplex springs (2x2)
7	Top seal	17	Choice of single or tandem roller
8	Header seal support (black fascia)	18	Curve
9	Vertical rail (prefabricated frame in rail support)	19	Guide pulley
10	Lateral hinge for single or tandem roller	20	Double horizontal rail
		21	Spacer rod

TYPE OF DISCHARGE

EXTENSION SPRINGS



WI	Bay width
HE	Bay height
PW	Passage width
PH	Passage height
OH	Overhead height
DO	Max. height with door open
URS	Dimensions under roller supports
LR	Left reservation
RR	Right reservation
C	Overhead clearance

	MIN. OH	MIN. RR/LR	PH*	URS	DO	Dim. under back bar**
MANUAL OR MOTORISED DOOR	100 mm	90 mm	PH = HE - 15 mm (without latch)	PH - 79 mm (Traditional roller) PH - 51 mm (Tandem roller)	PH + 65 mm	PH = + 7 to - 80 mm

* If latch: PH = HE - 90 mm; if lock: PH = HE - 55 mm; if stiffener: PH = HE - 60 mm; if wicket door: PH = HE - 55 mm (at threshold) / PH = HE - 55 mm (at handle).

** Depending on the overhead height and type of operator.

INFO

- The dimensions in **green** are those you need to send us for a quote or order
- If the OH or LR or RR are not large enough, a false header or false reservations can be fitted
- Installation layouts are always illustrated from the inside

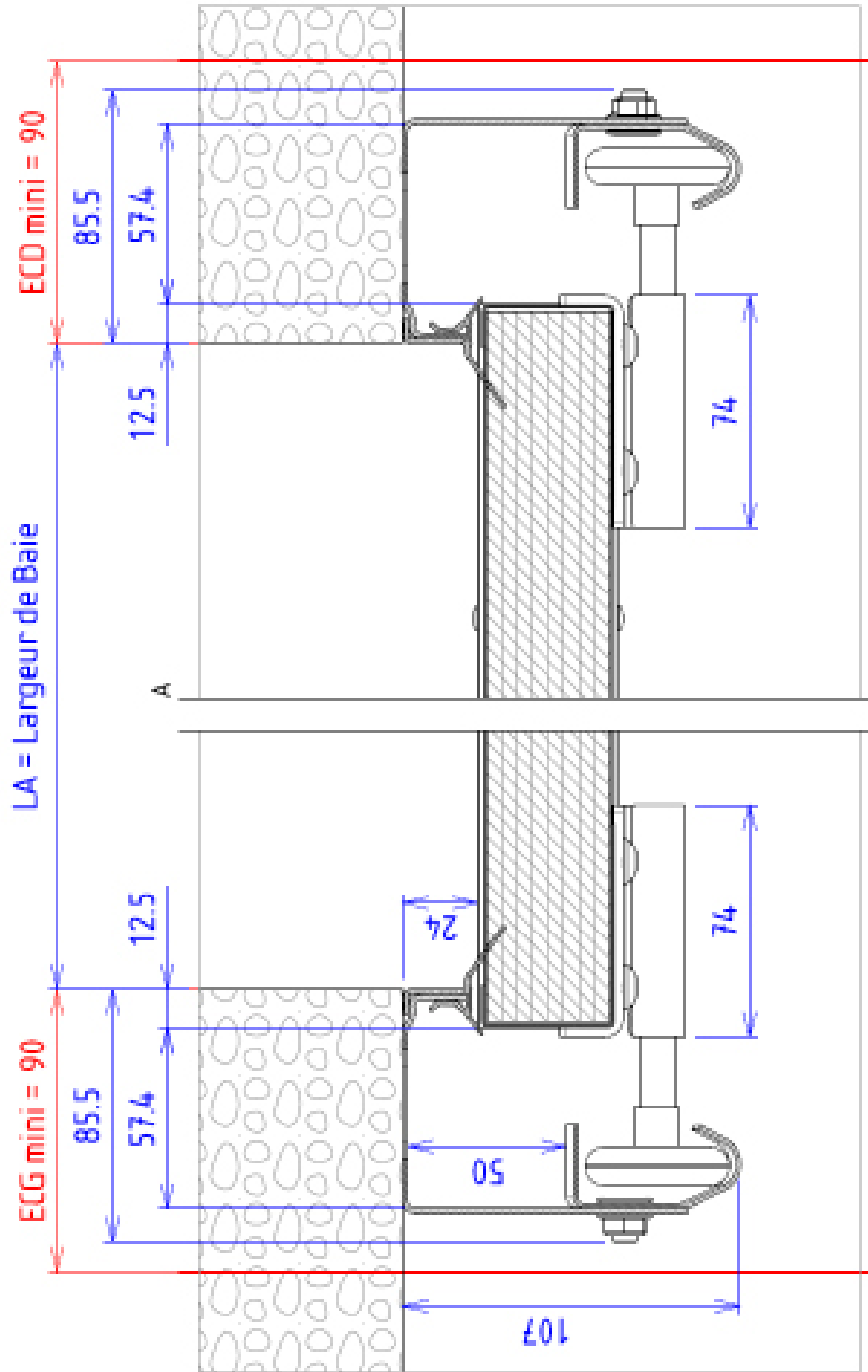
OVERHEAD CLEARANCE (C)

	MANUAL DOOR C
PH ≤ 2000	2,675 mm
2,001 < PH ≤ 2,125	2,750 mm
2,126 < PH ≤ 2,250	2,875 mm
2,251 < PH ≤ 2,375	3,000 mm
2,376 < PH ≤ 2,500	3,125 mm
2,501 < PH ≤ 2,750	3,375 mm
2,751 < PH ≤ 3,000	3,625 mm

SOMMER OPERATOR INFO

- You can cut the operator rail yourself
Min. clearance value: PH + 915 mm

SECTIONAL DRAWING OF THE VILLA VERTICAL RAILS



DIMENSIONS

DIMENSION LIMITS

Dimensions given in mm			Dimensions given in mm	
	Min.	Max.	Manual opening	Motorised opening
Bay width WI	1,800	5,000 ⁽²⁾	100	100 to 115 depending on the operator
Bay height HE	1,800	3,000	2,625 to 3,625 max. ⁽³⁾	3,265 to 4,895 max. depending on the operator
Reservation width RL/RR	90		interior latch ⁽⁴⁾	operator ⁽⁴⁾

MAXIMUM GARAGE DOOR HEIGHT IN RELATION TO WIDTH

	Passage width	Passage height			
		Without window or windows with PVC glazing	With Alunox [®] windows or double-glazed panels Horizontal (HR) or Vertical row (VR)	Without window or windows with PVC glazing + 2 stiffeners	With Alunox [®] windows or double-glazed panels + 2 stiffeners - Horizontal row (HR) or vertical row (VR)
Plain Single-Grooved smooth or textured	1,800<PW<3,650	3,000	3,000 (HR and VR)	3,000	3,000 (HR and VR)
	3,651<PW<4,000	3,000	2,900 (HR)-2,800 (VR)	2,900	2,800 (HR)-2 700 (VR)
	4,001<PW<4,600	2,800	2,500 (HR)-2,600 (VR)	2,550	2,300 (HR and VR)
	4,601<PW<5,000	2,550	2,300 (HR)-2,350 (VR)	2,350	not possible (HR)-2,150 (VR)
High Groove smooth or textured	1,800<PW<3,600	3,000	3,000 (HR)-2,800 (VR)	3,000	2,600 (HR)-2700 (VR)
	3,601<PW<4,000	2,700	2,600 (HR and VR)	2,600	2,400 (HR and VR)
	4,001<PW<4,500	2,500	2,300 (HR)-2,250 (VR)	2,400	not possible (HR)-2,200 (VR)
	4,501<PW<5,000	2,200	not possible (HR)-2,150 (VR)	not possible	not possible (HR and VR)
Grooved Micro-Grooved Raised Panels	1,800<PW<4,000	3,000	3,000 (HR and VR)	3,000	3,000 (HR and VR)
	4,001<PW<4,500	3,000	2,700 (HR and VR)	2,800	2,500 (HR and VR)
	4,501<PW<5,000	2,700	2,450 (HR)-2,650 (VR)	2,500	2,200 (HR)-2300 (VR)

	Passage width	Passage height			
		2 x 250 mm panels		2 x 250 mm panels with 2 stiffeners	
		Tri alveolar	Double-glazed	Tri alveolar	Double-glazed
Visio Plain smooth or textured	1,800<PW<3,500	3,000	3,000	3,000	3,000
	3,501<PW<4,000	2,800	2,600	2,800	2,600
	4,001<PW<4,500	2,500	2,400	2,400	2,200
	4,501<PW<5,000	2,300	2,100	2,200	not possible
Visio High Groove smooth or textured	1,800<PW<3,400	3,000	3,000	3,000	2,800
	3,401<PW<3,800	2,800	2,600	2,600	2,500
	3,801<PW<4,200	2,500	2,350	2,300	2,000
	4,201<PW<4,500	2,400	2,200	2,200	not possible
	4,501<PW<5,000	2,100	not possible	not possible	not possible

(1) If there is not sufficient overhead height (OH) and/or the RL and/or RR (left and right reservations) are not large enough, we may suggest a false header and/or false reservations for the door, which may be matching or not.

(2) For Plain and Single-Grooved doors with Alunox[®] windows or double-glazed panel windows: WI 4,500 max.

(3) According to the PH dimension.

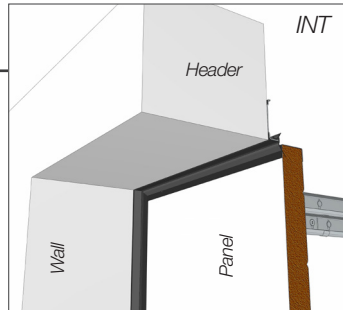
(4) Optional latch or lock: passage height is reduced by 90 mm at the position of the latch or lock.

SEALING

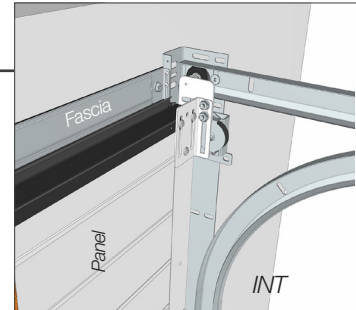
INSULATION
PROTECTION
ELASTICITY
RESISTANCE



01
HEADER SEAL

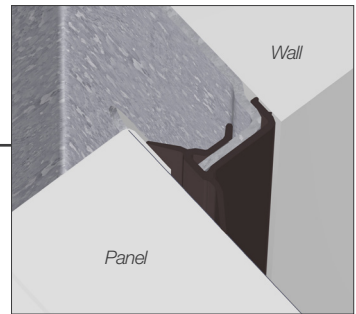


Exterior view



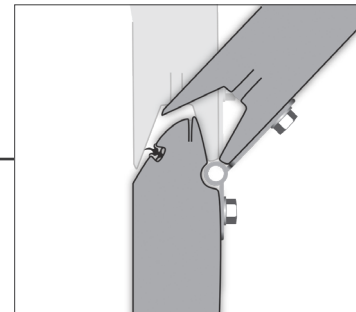
Interior view
2-lip seal (header)

02
VERTICAL SEAL



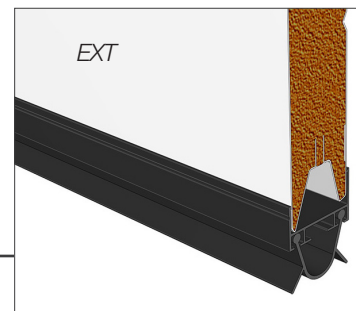
Lip seal (vertical rails)

03
INTERMEDIATE SEAL



Finger guard joint

04
BOTTOM SEAL



2-lip seal (bottom panel)

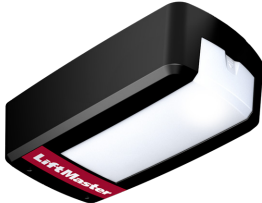
TYPES OF OPERATION

TYPE OF OPERATION	OPERATOR
MANUAL VERSION	
PW max. 5,000 mm PH max. 3,000 mm Maximum weight 150 kg	None (direct pull)
MOTORISED VERSION	
SOMMER	
PW max. 5,000 mm PH max. 3,000 mm Maximum weight 150 kg	TD Operator (remote head)
SOMFY	
PW max. 5,000 mm PH max. 3,000 mm Maximum weight 150 kg	Compact RTS
	Dexxo Smart IO 800

CAUTION

All our doors are CE marked, in compliance with designated standard NF EN 13241 + A2. They can be operated manually or motorised. Fitting a motorised operator to a manually operated door is the sole responsibility of the installer.

OPERATORS

	LIFTMASTER OPERATOR
	LM50EVFF-02
	
Voltage	230V
Tensile and compressive force	500 N
Maximum speed	100 mm/s
Standby power consumption	≈ 4.9 W
Number of cycles per day	20
Emergency release	Yes
Slow-down at end of opening/closing	Yes
Partial door opening	No
Radio frequency	433/868 MHz
Number of remote controls included	2

OPERATORS

SOMMER OPERATOR			
	TD 500	Pro+ 600	TD 800
			
Voltage	230V	230V	230V
Tensile and compressive force	500 N	600 N	800 N
Maximum speed	150 mm/s	240 mm/s	130 mm/s
Standby power consumption	≈ 7 W	≈ 1 W	≈ 2 W
Number of cycles per day	20	20	20
Emergency release	Yes	Yes	Yes
Slow-down at end of opening/closing	Yes	Yes	Yes
Partial door opening	Yes	Yes	Yes
Radio frequency	868 MHz	868 MHz	868 MHz
Number of remote controls included	2	2	2

MOTORISATION SOMFY			
	Dexxo Compact Rts	Dexxo Optimo Rts	Dexxo Smart IO 800*
			
Voltage	230V	230V	230V
Tensile and compressive force	600 N	650 N (at start) 800 N (peak)	650 N (at start) 800 N (peak)
Maximum speed	140 mm /sec	140 mm /sec	140 mm /sec
Standby power consumption	≈ 4 W	≈ 4 W	≈ 5 W
Number of cycles per day	20	20	20
Emergency release	Yes	Yes	Yes
Slow-down at end of opening/closing	Yes	Yes	Yes
Partial door opening	No	Yes	Yes
Radio frequency	433.42 MHz	433.42 MHz	868 MHz
Number of remote controls included	2	2	2

* - 9 remote controls if one-way control: no feedback (intelligent operator).
 - Unlimited if two-way control: with feedback (intelligent transmitter).

OPERATING MODES





PULSE OPERATION (TRAINED USERS)

In pulse operation mode, the user is required to perform a brief action on the controller which triggers the movement of the shutter: open, stop or close.

Necessary safety devices:

Our operators are equipped with electronic systems for measuring force values, to allow automatic control in order to comply with the maximum lifting and crushing forces required under standard NF EN 13241 + A2. No additional safety devices need to be fitted on the door if it is not in a public area and if the door is in sight when operated. If a door is in a public area or operated out of sight, it must be fitted with 2 mandatory sets of cells.

CONTROL ACCESSORIES			
SOMMER			
<p>Remote control</p> 	<ul style="list-style-type: none"> Pearl 4-function transmitter: <ul style="list-style-type: none"> - as standard - frequency 868 MHz - dimensions: 79 x 26 x 13 mm 	<p>Radio fingerprint reader</p> 	<ul style="list-style-type: none"> Fingerprint reader: <ul style="list-style-type: none"> - frequency 868 MHz - dimensions: 149 x 69 x 45 mm - records up to 80 user fingerprints - records up to 9 administrator fingerprints - 4-channel programming
<p>Slider radio remote control</p> 	<ul style="list-style-type: none"> 4-function transmitter: <ul style="list-style-type: none"> - as an option - frequency 868 MHz - dimensions: 55 x 30 x 14 mm - 4 radio controls - Except Pro+ 	<p>Key pad</p> 	<ul style="list-style-type: none"> Wireless key pad: <ul style="list-style-type: none"> - frequency 868 MHz - dimensions: 147 x 48 x 30 mm - aluminum support - illuminated buttons
<p>Remote control</p> 	<ul style="list-style-type: none"> Pearl Status 3-channel transmitter <ul style="list-style-type: none"> - with information feedback - optional on Pro+ 600 operator - 3 channels - dimensions: 79 x 26 x 13 mm - frequency 868 MHz 	<p>Remote control</p> 	<ul style="list-style-type: none"> Pearl Twin, 2 channels: <ul style="list-style-type: none"> - radio - 2 channels - optional on Pro+ 600 operator - dimensions: 79 x 26 x 13 mm - frequency 868 MHz
<p>Radio button box</p> 	<ul style="list-style-type: none"> Wall-mounted button box: <ul style="list-style-type: none"> - radio - 3 channels - dimensions: 85 x 80 x 14 mm - frequency 868 MHz 	<p>SOMMER OPERATOR INFO</p> <ul style="list-style-type: none"> • A pulse button is integrated into the control box • The receivers in the control box are equipped with a "Rolling code" system to protect against radio hacking. 	
SOMFY			
<p>Keytis RTS remote control</p> 	<ul style="list-style-type: none"> Compatible with Dexxo Compact and Optimo operators: <ul style="list-style-type: none"> - frequency 433.42 MHz - dimensions: 69 x 41.5 x 13.7 mm 	<p>Key pad</p> 	<ul style="list-style-type: none"> Flush-mounted RTS key pad: <ul style="list-style-type: none"> - frequency 433.33 MHz - dimensions: 120 x 70 x 30 mm - IP 55 - metal finish
<p>IO remote control</p> 	<ul style="list-style-type: none"> Compatible with Dexxo Smart IO 800 operator: <ul style="list-style-type: none"> - frequency 868 MHz - dimensions: 59 x 35 x 14 mm 	<p>Key pad</p> 	<ul style="list-style-type: none"> Wall-mounted RTS key pad: <ul style="list-style-type: none"> - frequency 433.33 MHz - dimensions: 120 x 70 x 30 mm - IP 55 - metal finish

CONTROL ACCESSORIES			
COMPATIBLE WITH ALL OPERATORS			
<p>Tyxia Delta Dore remote control</p> 	<ul style="list-style-type: none"> Compatible with operators with a Delta Dore receiver -frequency: 868 MHz -dimensions: 42 x 65 x 8 mm 	<p>BCE2 - BCA1</p> 	<ul style="list-style-type: none"> Key switch box: <ul style="list-style-type: none"> <u>Flush-mounted</u>: Finger plate - dimensions: 90 x 100 mm <u>Wall-mounted</u> - dimensions: 73 x 73 x 78 mm
<p>Rollia Delta Dore remote control</p> 	<ul style="list-style-type: none"> Compatible with operators with a Delta Dore receiver - frequency: 868 MHz - dimensions: 45 x 125 x 15 mm 	<p>Tyxia 4620 Delta Dore receiver</p> 	<ul style="list-style-type: none"> Dry-contact pulse receiver: <ul style="list-style-type: none"> - dimensions: 45 x 36 x 23 mm - 230V

IN PICTURES



Single-grooved shutter - Smooth finish - square Alunox windows



Technical features



High-groove shutter - Sandblasted finish



Shutter with raised panels - Wood-grain finish



Plain shutter - Smooth finish



Plain shutter - Smooth finish

IN PICTURES



Grooved, wood-grain sectional door with wicket door in center



Plain smooth door with wicket door at the center and Alunox vertical square windows



Plain smooth door with wicket door near wall edge



Plain smooth door with Alunox vertical square windows and wicket door near wall edge



Plain smooth door with optional horizontal square windows and wicket door in center

TORSION SPRINGS-RT200

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CONTENTS

RT200 SECTIONAL DOORS WITH TORSION SPRINGS



DESCRIPTION

SHUTTERS

This door is compatible with all our shutters. More details on page 9.

LIMITS OF USE

	SHUTTERS WITH RAISED PANELS	OTHER SHUTTERS
PASSAGE WIDTH (PW) MIN.	2,000 mm	1,800 mm
PASSAGE WIDTH (PW) MAX.	5,000 mm*	5,500 mm*
PASSAGE HEIGHT (PH) MIN.	1,800 mm	1,800 mm
PASSAGE HEIGHT (PH) MAX.	3,000 mm	3,000 mm
MAX. SURFACE	14 m ²	14 m ²

*See attached "Large doors with torsion springs" file for greater heights or surfaces

	PW
2,501 ≤ PH ≤ 2,800	2,300 ≤ PW ≤ 4,000
2,801 ≤ PH ≤ 2,849	2,300 ≤ PW ≤ 3,599
2,850 ≤ PH ≤ 3,000	2,600 ≤ PW ≤ 3,599

- For single-family homes
- Harmonizes with all homes
- Closes a garage
- Insulates and protects
- Facilitates access
- No external overhang
- Manual or motorized operation
- Can be used in complete safety
- Smaller reservations and dimensions

TYPES OF DISCHARGE

RT200: Overhead height (OH) min. = 200 mm, for the manual or motorized version.

CAUTION

- If OH < 200 mm = RE100 or false header

INFO

- All our doors comply with the requirements of European standard NF EN 13241 + A2
- A false header and false reservations are available to adapt to a lower overhead height or reservations

COMPENSATION SYSTEM AND GUIDES

- Assembly of green/horizontal rails with screws and nuts
- Vertical rail support (backstop) in 1.5 mm galvanized steel
- Galvanized steel vertical rails (Z275)
- Double horizontal rails in galvanized steel (Z275)
- Traditional nylon roller with ball bearings or tandem roller (at no extra cost)
- Door drive with 2 Ø3 mm cables (Aviation type 6 x 19 with metal core)
- Reversible curves equipped with tulips
- Equalization of RT200 and RE100 vertical and horizontal rails
- Simple conversion of an RT200 door to an RE100 door



Traditional roller

Tandem roller (optional)

*NF garage door dimensions: max. passage width 3,000 mm; max. passage height: 2,250 mm.

RT200 COMPENSATION SYSTEM

The compensation system:

- Grooved galvanized steel hollow shaft Ø25.4 mm
- Line pre-assembled in the factory
- 2 lacquered, shot-peened springs (internal diameter Ø51 mm) 15,000 cycles minimum
- Each spring is equipped with an anti-fall guard (NF EN 13241 + A2)
- Attachment to the header



SEALING

- 2-lip seal on rail and header; frame is black because covered by the seal
- 2-lip seal on bottom panel

TYPES OF OPERATION

- Manual operation by direct pull
- Motorized operation by "push-pull" operator with anti-crush/anti-lifting device protection (NF EN 13241 + A2)

MODES OF OPERATION

Pulse operation:

- Control device requiring a brief manual action to initiate movement: open, stop or close
- Two additional factors must be taken into consideration:
 - The user: trained*
 - The installation site: whether or not it is in a public area

=> In the case of our operators, these two factors suffice, there is no need for an additional safety accessory if the door is operated in full view of the user. In public areas, where the door is operated out of sight, you must fit 2 mandatory sets of cells and a flashing spot.

INFO

- *A user is considered to have been "trained" if the installer has given them the manufacturer's instructions on how to use the product.
- The European standard EN 13241 + A2 requires that a user guide and a maintenance logbook (+ removal instruction leaflet) be provided with each installation.

Standard:

- All our doors have been inspected by a notified body and are CE marked (NF EN 13241 + A2)

OPTIONS

- Wicket door, windows, colors (180 RAL), lock, ventilation grilles, pet door, letter box, external operator release, etc.
- False header and false reservations (cladding)

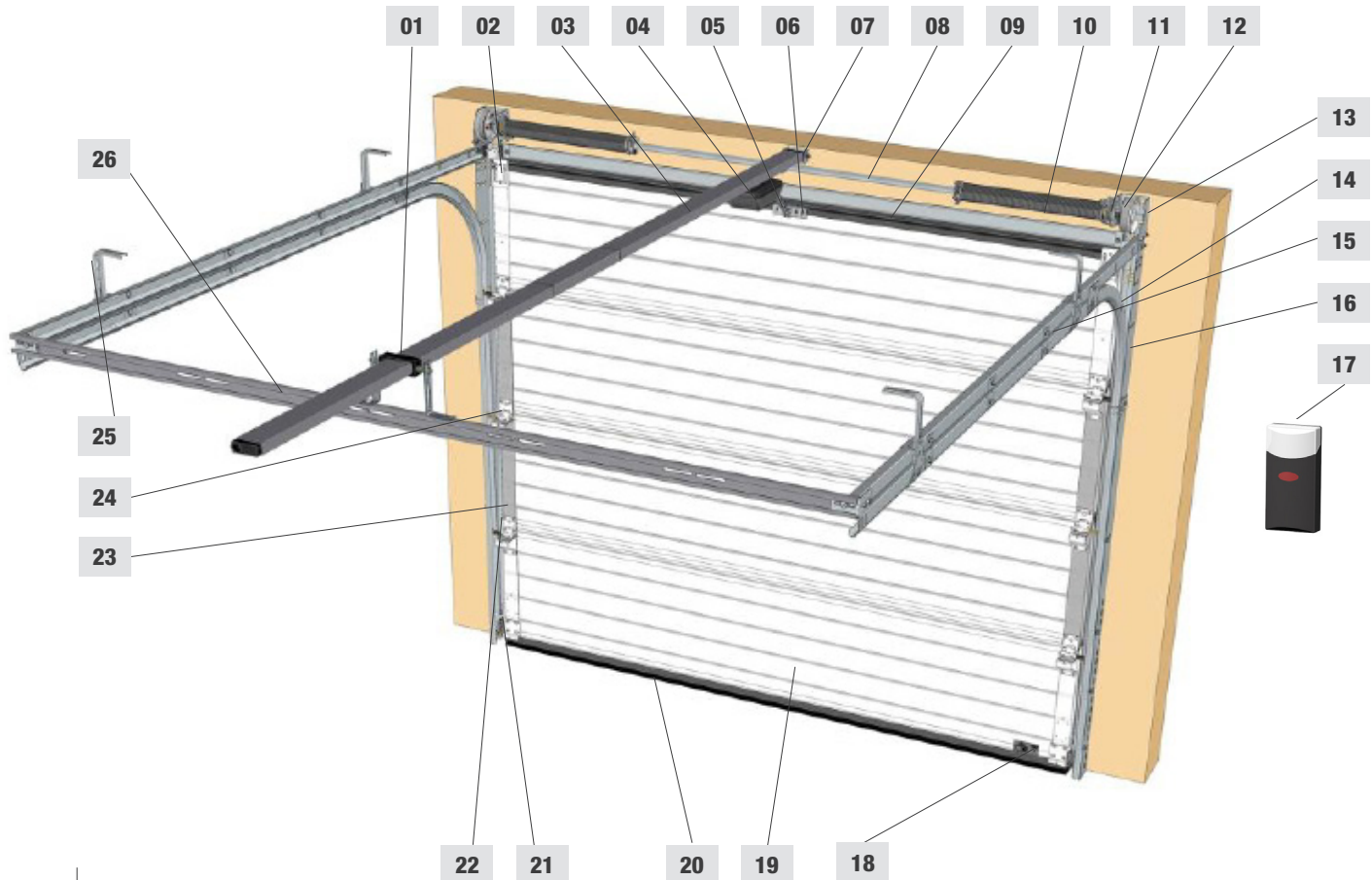
More details on page 58.

PARTS LIST

TORSION SPRINGS

INFO

- All our sectional doors with torsion springs are equipped with spring anti-fall guards (NF EN 13241 + A2)

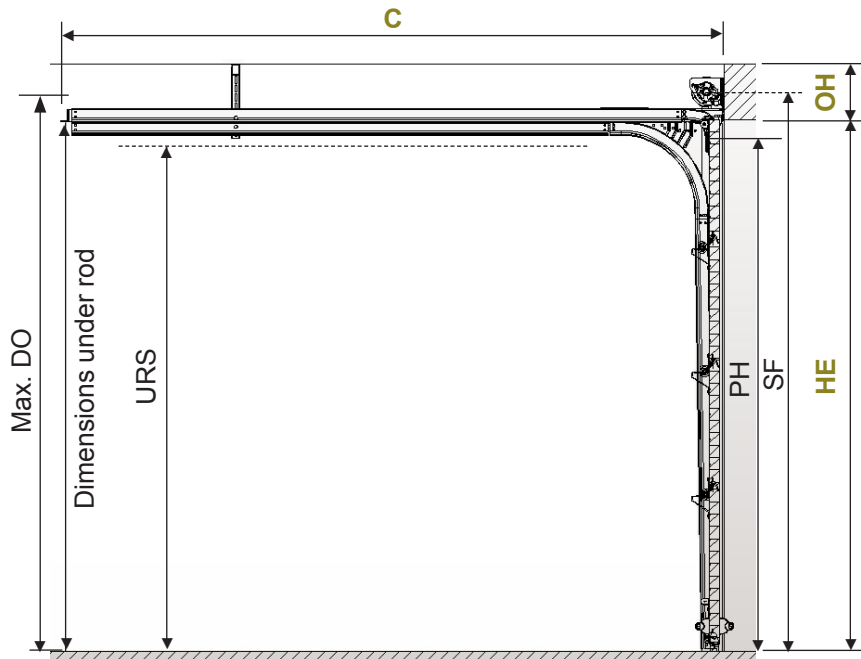


1	Operator guiding rail support	14	Curve
2	Top roller support	15	Double horizontal rail
3	Operator guiding rail	16	Vertical rail
4	Operator carriage	17	SOMMER operator control box
5	Push arm	18	CE label
6	Operator/shutter connecting bracket	19	Insulated double-wall panels with finger guard
7	Central bearing (for PW > 2,600 mm)	20	Bottom seal
8	Grooved hollow shaft	21	Low suspension
9	Header seal	22	Choice of single or tandem roller
10	Torsion springs	23	Edged column
11	Anti-fall guard	24	Lateral hinge for single or tandem roller
12	Cable reel	25	Rail hanger (corresponding to OH ≤ 440 mm)
13	RT200 console	26	Spacer rod

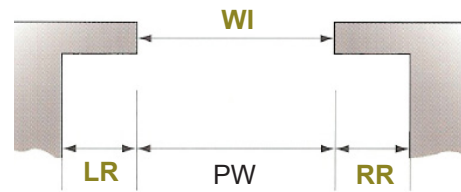
*Depending on the options and dimensions

TYPE OF DISCHARGE

TORSION SPRINGS



WI	Bay width
HE	Bay height
PW	Clearance width
PH	Passage height
OH	Overhead height
SF	Shaft/floor distance
DO	Max. height with door open
URS	Dimensions under roller supports
LR	Left reservation
RR	Right reservation
R	Overhead clearance



	MIN. OH	MIN. RR/LR	PH*	URS	DO	SF	Dimensions under ROD**
MANUAL OR MOTORIZED DOOR	200 mm	90 mm	PH = HE - 15 mm (without latch)	PH - 79 mm (Traditional roller) PH - 51 mm (Tandem roller)	PH + 65 mm	PH + 139 mm	PH = +7 to -80 mm

*If latch: PH = HE - 90 mm; if lock: PH = HE - 55 mm; if stiffener: PH = HE - 60 mm; if wicket door: PH = HE - 55 mm (at threshold) / PH = HE - 55 mm (at handle).
**Depending on the overhead height and type of operator.

INFO

- The dimensions in green are those you need to send us for a quote or order
- If the OH or LR or RR are not large enough, a false header or false reservations can be fitted
- Installation layouts are always illustrated from the inside

OVERHEAD CLEARANCE (C)

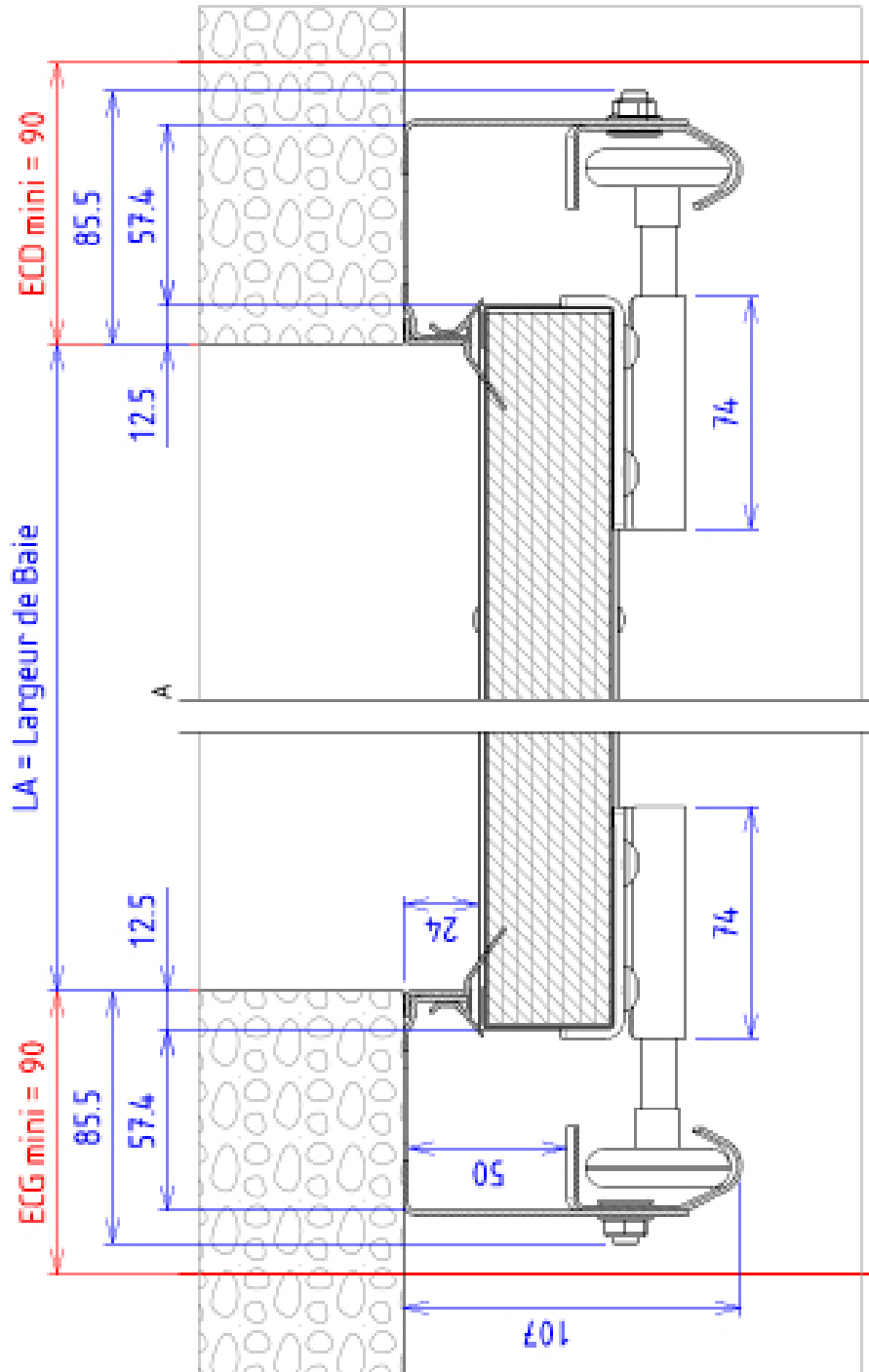
	C Manual door
PH ≤ 2,000	2,625 mm
2,001 < PH ≤ 2,125	2,750 mm
2,126 < PH ≤ 2,250	2,875 mm
2,251 < PH ≤ 2,375	3,000 mm
2,376 < PH ≤ 2,500	3,125 mm
2,501 < PH ≤ 2,750	3,375 mm
2,751 < PH ≤ 3,000	3,625 mm

	C Motorized door
PH ≤ 2,350	3,265 mm
2,350 < PH ≤ 2,750	3,665 mm
2,750 < PH ≤ 3,000	4,065 mm

SOMMER OPERATOR INFO

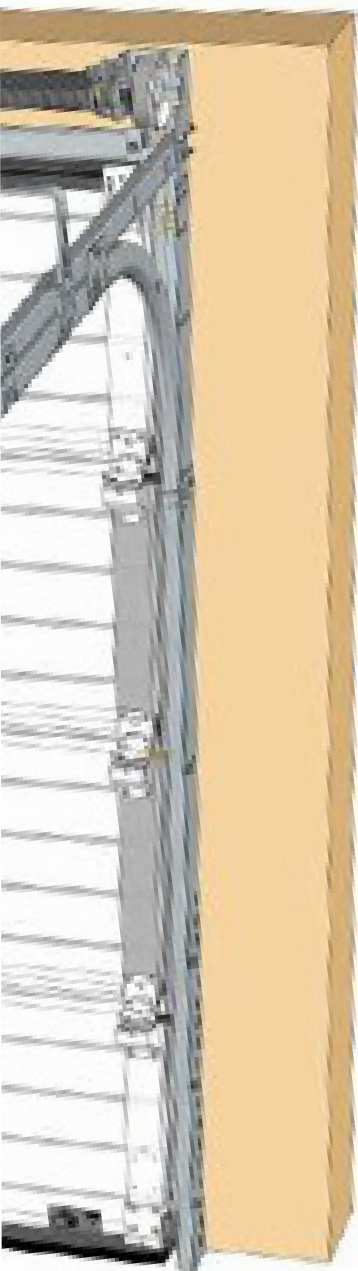
- You can cut the operator rail yourself: in this case the minimum clearance is PH + 915 mm

SECTIONAL DRAWING OF THE VILLA VERTICAL RAILS

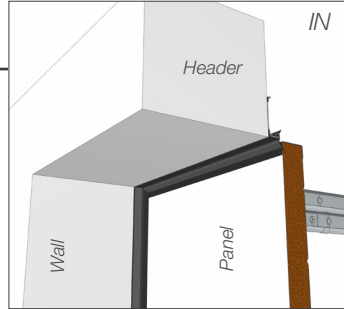


SEALING

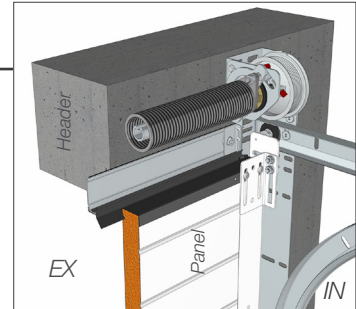
INSULATION
PROTECTION
ELASTICITY
RESISTANCE



01 HEADER SEAL

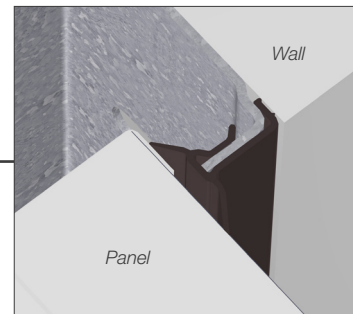


Exterior view



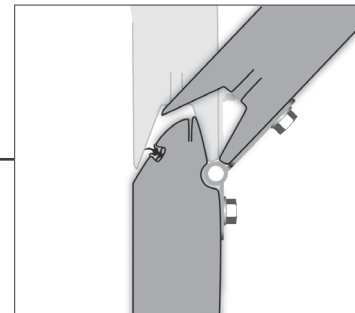
Interior view
2-lip seal

02 VERTICAL SEAL



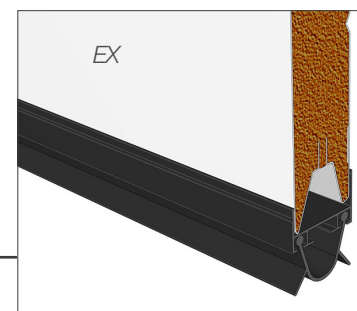
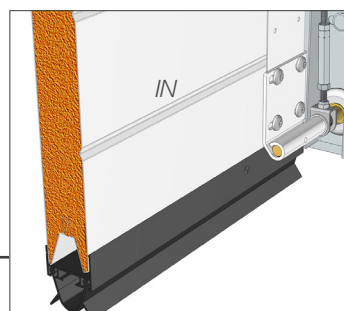
Lip seal (on vertical rails)

03 INTERMEDIATE SEAL



Finger guard joint

04 BOTTOM SEAL



2-lip seal (bottom panel)

*For door without wicket door.

TYPES OF OPERATION




Types of operation	Operator
MANUAL VERSION	
With or without wicket door: Max. shutter surface = 14 m ²	None (direct pull)
MOTORIZED VERSION	
SOMMER	
With wicket door: Max. shutter surface = 8 m ²	TD500 Operator (remote head)
Without wicket door: Max. shutter surface = 10 m ²	
With wicket door: Max. shutter surface = 10 m ²	Pro+ 600 Operator (remote head)
Without wicket door: Max. shutter surface = 12 m ²	
With wicket door only: Max. shutter surface = 12 m ²	TD800 Operator (remote head)
Without wicket door: Max. shutter surface = 14 m ²	
SOMFY	
Without wicket door: PW ≤ 3,500 mm Max. shutter surface = 8 m ²	Compact RTS**
With wicket door: PW ≤ 3,500 mm Max. shutter surface = 8 m ²	Optimo RTS
Without wicket door: PW ≤ 3,500 mm Max. shutter surface = 10 m ²	
With wicket door: PW ≤ 5,000 mm Max. shutter surface = 10 m ²	Dexxo Smart IO 800
Without wicket door: PW ≤ 5,000 mm Max. shutter surface = 12 m ²	




**Not compatible with doors with wicket doors.

CAUTION

- All our doors are CE marked, in compliance with European standard NF EN 13241 + A2. They can be operated manually or motorized. Fitting a motorized operator to a manually operated door is the sole responsibility of the installer.

OPERATORS

	SOMMER OPERATOR		
	TD 500	Pro+ 600	TD 800
			
Voltage	230V	230V	230V
Tensile and compressive force	500 N	600 N	800 N
Maximum speed	150 mm/s	240 mm/s	130 mm/s
Standby power consumption	≈ 7 W	≈ 1 W	≈ 2 W
Number of cycles per day	20	20	20
Emergency release	Yes	Yes	Yes
Slow-down at end of opening/closing	Yes	Yes	Yes
Partial door opening	Yes	Yes	Yes
Radio frequency	868 MHz	868 MHz	868 MHz
Number of remote controls included	2	2	2

	SOMFY OPERATOR		
	Dexxo Compact Rts	Dexxo Optimo Rts	Dexxo Smart IO 800*
			
Voltage	230V	230V	230V
Tensile and compressive force	600 N	650 N (at start) 800 N (peak)	650 N (at start) 800 N (peak)
Maximum speed	140 mm /sec	140 mm /sec	140 mm /sec
Standby power consumption	≈ 4 W	≈ 4 W	≈ 5 W
Number of cycles per day	20	20	20
Emergency release	Yes	Yes	Yes
Slow-down at end of opening/closing	Yes	Yes	Yes
Partial door opening	No	Yes	Yes
Radio frequency	433.42 MHz	433.42 MHz	868 MHz
Number of remote controls included	2	2	2

* - 9 remote controls if one-way control: no feedback (intelligent operator)

- Unlimited if two-way control: with feedback (intelligent transmitter)









OPERATING MODES

PULSE OPERATION (TRAINED USERS)





In pulse operation mode, the user is required to perform a brief action on the controller which triggers the movement of the shutter: open, stop or close.

Necessary safety devices:

Our operators are equipped with electronic systems for measuring force values, to allow automatic control in order to comply with the maximum lifting and crushing forces required under standard NF EN 13241 + A2. No additional safety devices need to be fitted on the door if it is not in a public area and if the door is in sight when operated. If a door is in a public area or operated out of sight, it must be fitted with 2 mandatory sets of cells and a flashing spot.

CONTROL ACCESSORIES			
SOMMER			
<p>Remote control</p> 	<ul style="list-style-type: none"> • Pearl 4-function transmitter: <ul style="list-style-type: none"> - as standard - frequency 868 MHz - dimensions: 79 x 26 x 13 mm 	<p>Radio fingerprint reader</p> 	<ul style="list-style-type: none"> • Fingerprint reader: <ul style="list-style-type: none"> - frequency 868 MHz - dimensions: 149 x 69 x 45 mm - records up to 80 user fingerprints - records up to 9 administrator fingerprints - 4-channel programming
<p>Slider radio remote control</p> 	<ul style="list-style-type: none"> • 4-function transmitter: <ul style="list-style-type: none"> - as an option - frequency 868 MHz - dimensions: 55 x 30 x 14 mm - 4 radio controls - except Pro+ 	<p>Key pad</p> 	<ul style="list-style-type: none"> • Wireless key pad: <ul style="list-style-type: none"> - frequency 868 MHz - dimensions: 147 x 48 x 30 mm - aluminum support - illuminated buttons
<p>Remote control</p> 	<ul style="list-style-type: none"> • Pearl Status 3-channel transmitter: <ul style="list-style-type: none"> - with information feedback - optional on Pro+ 600 operator - 3 channels - dimensions: 79 x 26 x 13 mm - frequency 868 MHz 	<p>Remote control</p> 	<ul style="list-style-type: none"> • Pearl Twin, 2 channels: <ul style="list-style-type: none"> - radio - 2 channels - optional on Pro+ 600 operator - dimensions: 79 x 26 x 13 mm - frequency 868 MHz
<p>Radio button box</p> 	<ul style="list-style-type: none"> • Wall-mounted button box: <ul style="list-style-type: none"> - radio - 3 channels - dimensions: 85 x 80 x 14 mm - frequency 868 MHz 	<p>SOMMER OPERATOR INFO</p> <ul style="list-style-type: none"> • A pulse button is integrated into the control box • The receivers in the control box are equipped with a "Rolling code" system to protect against radio hacking 	
SOMFY			
<p>Keytis RTS remote control</p> 	<ul style="list-style-type: none"> • Compatible with Dexxo Compact and Optimo operators: <ul style="list-style-type: none"> - frequency 433.42 MHz - dimensions: 69 x 41.5 x 13.7 mm 	<p>Key pad</p> 	<ul style="list-style-type: none"> • Flush-mounted RTS key pad: <ul style="list-style-type: none"> - frequency 433.33 MHz - dimensions: 120 x 70 x 30 mm - IP 55 - metal finish
<p>IO remote control</p> 	<ul style="list-style-type: none"> • Compatible with Dexxo Smart IO 800 operator: <ul style="list-style-type: none"> - frequency 868 MHz - dimensions: 59 x 35 x 14 mm 	<p>Key pad</p> 	<ul style="list-style-type: none"> • Wall-mounted RTS key pad: <ul style="list-style-type: none"> - frequency 433.33 MHz - dimensions: 120 x 70 x 30 mm - IP 55 - METAL finish

COMPATIBLE WITH ALL OPERATORS

<p>Tyxia Delta Dore remote control</p> 	<ul style="list-style-type: none"> Compatible with operators with a Delta Dore receiver - frequency: 868 MHz - dimensions: 42 x 65 x 8 mm 	<p>BCE2 - BCA1</p> 	<ul style="list-style-type: none"> Key switch box: <ul style="list-style-type: none"> <u>Flush-mounted</u>: Finger plate - dimensions: 90 x 100 mm <u>Wall-mounted</u> - dimensions: 73 x 73 x 78 mm
<p>Tyxia 4620 Delta Dore receiver</p> 	<ul style="list-style-type: none"> Dry-contact pulse receiver: - dimensions : 45 x 36 x 23 mm - 230V 	<p>Rollia Delta Dore remote control</p> 	<ul style="list-style-type: none"> Compatible with operators with a Delta Dore receiver - frequency: 868 MHz - dimensions: 45 x 125 x 15 mm

IN PICTURES



Plain shutter - Smooth finish - Linéo pattern - Square Alunox window



Plain shutter - Smooth finish - Ellipso pattern - Square Alunox window



Plain shutter - Smooth finish - Round Alunox window



Plain shutter - Smooth finish - Aloé pattern

TORSION SPRINGS

LARGE

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CONTENTS



SECTIONAL DOORS WITH TORSION SPRINGS

GRANDE VILLA / LARGE

DESCRIPTION

SHUTTERS

Compatible with all shutters except Visio.
More details on page 9.

LIMITS OF USE

	SHUTTER WITH RAISED PANELS	OTHER SHUTTERS
PASSAGE WIDTH (PW) MIN.	2,000 mm	1,800 mm
PASSAGE WIDTH (PW) MAX.	5,000 mm	5,000 mm
PASSAGE HEIGHT (PW) MIN.	2,200 mm	2,200 mm
PASSAGE HEIGHT (PW) MAX.	3,500 mm	3,500 mm
MAX. SURFACE (S)	15 m ²	15 m ²

- For large garages
- For single-family homes
- Harmonizes with all homes
- Closes a garage
- Insulates and protects
- No external overhang
- Manual or motorised operation
- Can be used in complete safety

TYPES OF DISCHARGE

- **Overhead discharge (OD):**

- For manual version, min. overhead height (OH) = 450 mm
- For motorised version, min. overhead height (OH) = 510 mm (Pro+ 800 operator)
(OH) min. = 450 mm (OP'DRIVE 3.0 operator).

- **Overhead sloped discharge (OSD):**

- For the manual version, min. overhead height (OH) = 460 mm
- For motorised version, min. overhead height (OH) = 510 mm (Pro+ 800 operator)
(OH) min. = 460 mm (OP'DRIVE 3.0 operator)
- The maximum angle for an overhead sloped discharge is 15° or 26%.

INFO

- All our doors comply with the requirements of designated standard NF EN 13241 + A2
- A false header and false reservations are available to adapt to a lower overhead height or reservations
- In case of an overhead sloped discharge, an angle greater than 26% is possible on request: please consult us
- For a high or vertical discharge, see our Industry 3.0 sectional door range

COMPENSATION SYSTEM AND GUIDES

Guides:

- Screw and nut assembly
- Galvanized steel vertical rails (Z275)
- Horizontal rails in galvanized steel (Z275)
- Traditional nylon rollers with ball bearings
- Door drive with 2 Ø4 mm cables
(Aviation type 6 x 19 with metal core)



Traditional roller

OD AND OSD COMPENSATION SYSTEM

The compensation system:

- Full or hollow galvanized steel shaft Ø25.4 mm
- From 1 to 2 springs (internal diameter Ø95 mm or Ø152 mm) 25,000 cycles
- Each spring is fitted with an anti-fall guard (NF BS EN 13241:2003+A2:2016)
- Attachment to the header

CAUTION

- All our "Large torsion spring" sectional doors are equipped with cable anti-fall guards and spring anti-fall guards (NF EN 13241 + A2)

SEALING

- On the vertical rails: 2 lip seals
- On the top panel: 1 lip seal
- Under bottom panel: double lip seal

TYPES OF OPERATION

- Manual operation by direct pull
- Motorised operation using "pull-push" operator or "OP'DRIVE 3.0" operator (at shaft end) with anti-crush/anti-lifting (NF BS EN 13241:2003+A2:2016)

MODES OF OPERATION

Pulse operation:

- Control device requiring a brief manual action to initiate movement: open, stop or close
- Two additional factors must be taken into consideration:
 - The user: trained*
 - The installation site: whether or not it is in a public area

=> In the case of our operators, these two factors suffice, there is no need for an additional safety accessory if the door is operated in full view of the user. In public areas where the door is operated out of sight, 2 mandatory sets of cells and a flashing spot are required.

INFO

- *A user is considered to have been "trained" if the installer has given them the manufacturer's instructions on how to use the product
- The designated standard EN BS EN 13241:2003+A2:2016 requires that a user guide and a maintenance logbook (+ removal instruction leaflet) be provided with each installation

Standard:

- All our doors have been inspected by a notified body and are CE marked (NF BS EN 13241:2003+A2:2016)

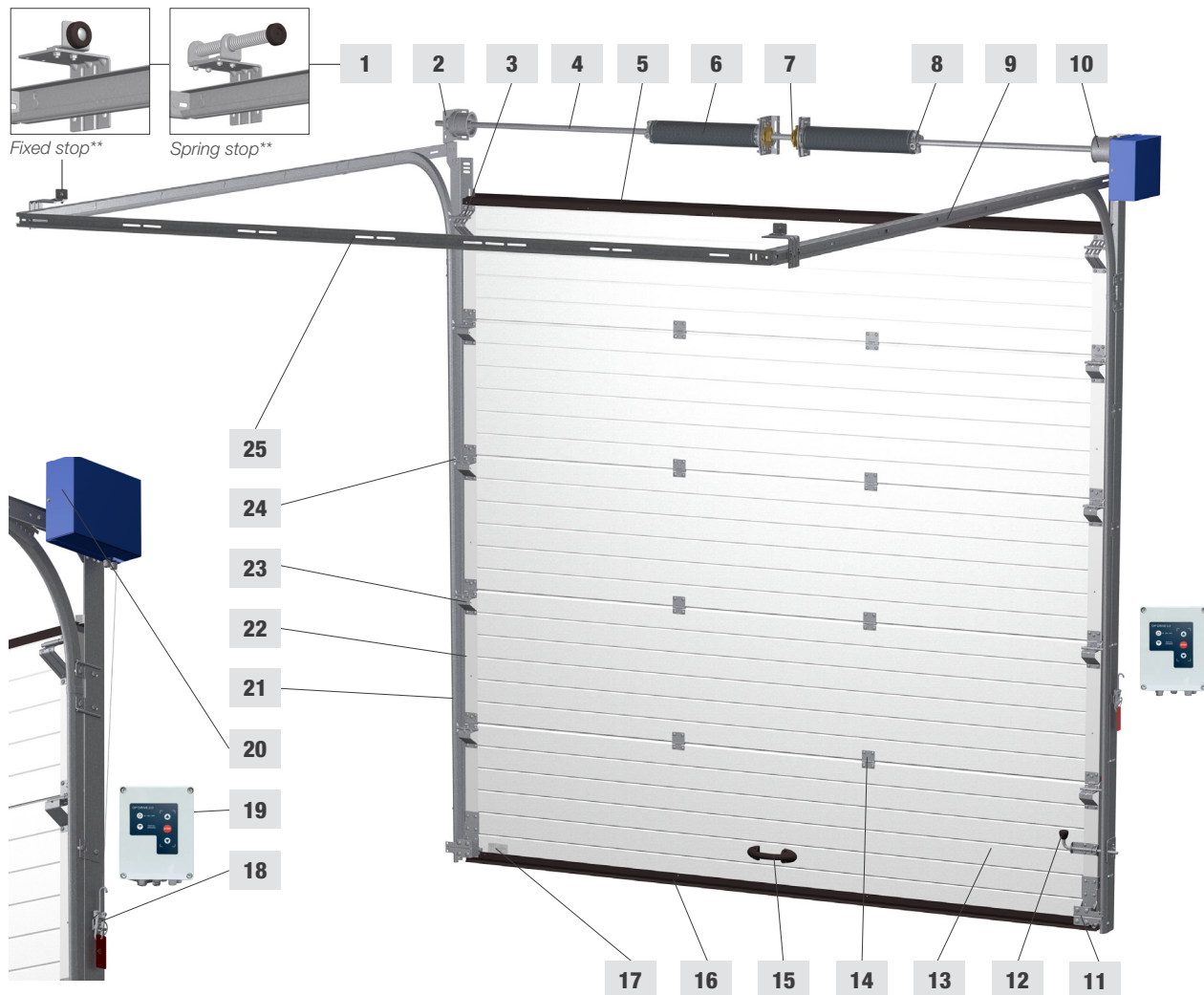
OPTIONS

- Wicket door, windows, colors (180 RAL), lock, ventilation grilles, pet door, letter box, etc.
- False header and false reservations (cladding)

More details on page 58.

PARTS LIST

OVERHEAD DISCHARGE

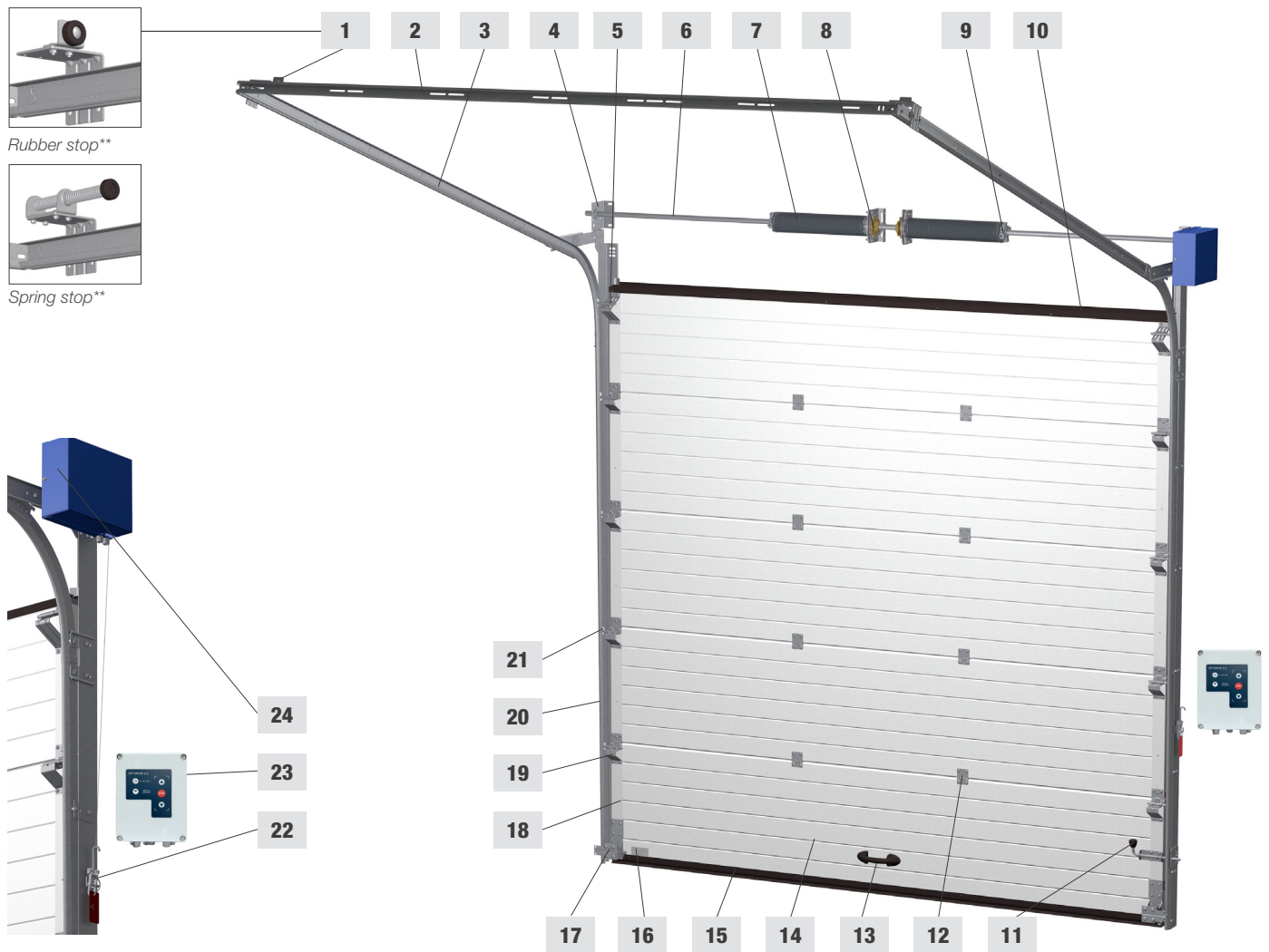


1 Stop	14 Intermediate hinges*
2 End bearing	15 Handle
3 Top roller support	16 Bottom seal
4 Full or hollow grooved shaft	17 UKCA Label
5 Top seal	18 Manual repair maneuver device (if OP'DRIVE)
6 Springs	19 Control box (if OP'DRIVE 3.0)
7 Spring anti-fall guard	20 OP'DRIVE 3.0 operator
8 Mandrel	21 Vertical rail
9 Horizontal rail	22 Edged column
10 Cable reel	23 Lateral hinge
11 Cable anti-fall guard	24 Roller
12 Side latch	25 Spacer rod
13 Double-wall panel with finger guard	

*Depending on the options and dimensions.

** Spring stop with a manual door or with a Pro+ operator, fixed stop with OP'DRIVE 3.0.

OVERHEAD SLOPED DISCHARGE



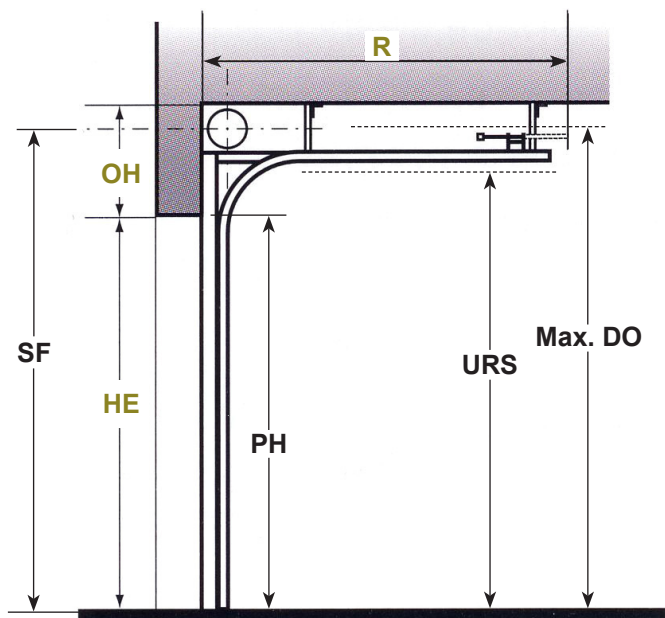
- | | | | |
|----|------------------------------|----|---|
| 1 | Stop | 14 | Double-wall panel with finger guard |
| 2 | Spacer rod | 15 | Bottom seal |
| 3 | Sloping rail | 16 | UKCA Label |
| 4 | Bearing | 17 | Cable anti-fall guard |
| 5 | Top roller support | 18 | Edged column |
| 6 | Full or hollow grooved shaft | 19 | Lateral hinge* |
| 7 | Springs | 20 | Vertical rail |
| 8 | Spring anti-fall guard | 21 | Roller |
| 9 | Mandrel | 22 | Manual repair maneuver device (if OP'DRIVE 3.0) |
| 10 | Top seal | 23 | Control box (if OP'DRIVE 3.0) |
| 11 | Side latch | 24 | OP'DRIVE 3.0 operator |
| 12 | Intermediate hinges | | |
| 13 | Handle | | |

*Depending on the options and dimensions.

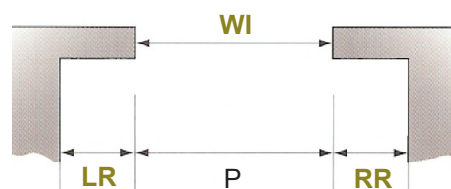
**Spring stop with a manual door or with a Pro+ 800 operator, fixed stop with OP'DRIVE 3.0.

TYPES OF DISCHARGE

OVERHEAD DISCHARGE



WI	Bay width
HE	Bay height
PW	Passage width
PH	Passage height
OH	Overhead height
SF	Shaft/floor distance
DO	Max. height with door open
URS	Dimensions under roller supports
LR	Left reservation
RR	Right reservation
C	Overhead clearance



	MIN. OH	MIN. RR/LR	PH (mm)	URS	DO	SF	C
MANUAL DOOR	450 mm	130 mm* or 250 mm**	PH = HE	PH + 184 mm	PH + 442 mm	PH + 341 mm	PH + 636 mm
MOTORISED DOOR	510 mm (Pro+ 800) 450 mm (OP'DRIVE)						PH + 636 mm (OP'DRIVE 3.0) 5,300 mm (Pro+ 800)

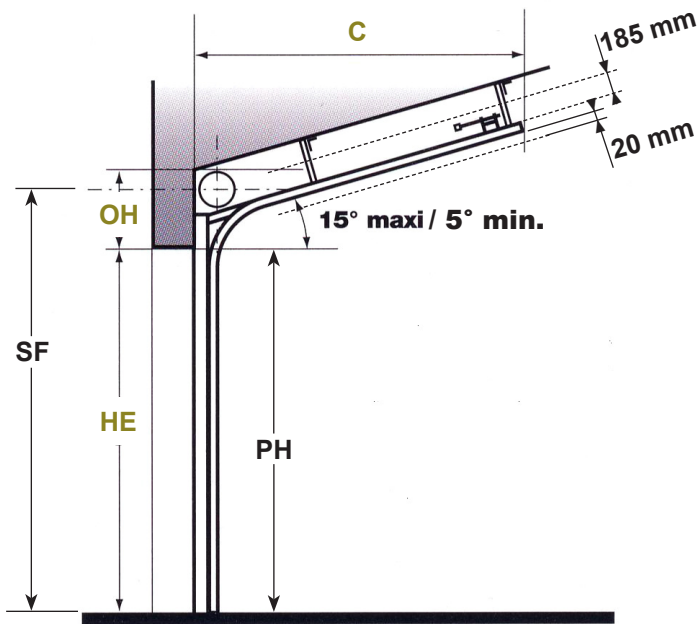
*Motorization with Pro+ 800 (both sides) or OP'DRIVE 3.0 (reverse on operator side).

**OP'DRIVE 3.0 motorization (operator side).

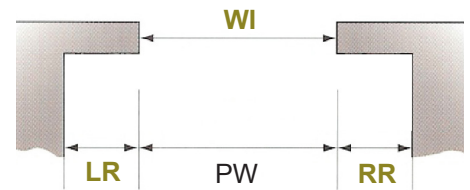
INFO

- The dimensions **in green** are those we need to prepare a quote or order
- If the OH or LR or RR are not large enough, a false header or false reservations can be fitted
- Installation layouts are always illustrated from the inside

OVERHEAD SLOPED DISCHARGE



WI	Bay width
HE	Bay height
PW	Passage width
PH	Passage height
OH	Overhead height
SF	Shaft/floor distance
URS	Dimensions under roller supports
LR	Left reservation
RR	Right reservation
C	Overhead clearance



	MIN. OH	MIN. RR/LR	PH (mm)	SF	C
MANUAL DOOR	460 mm	130 mm* or 250 mm**	PH = HE	PH + 381 mm	HP + 636 mm
MOTORISED DOOR	510 mm (Pro+ 800) 460 mm (OP'DRIVE 3.0)				PH + 636 mm (OP'DRIVE 3.0) 5,300 mm (Pro+ 800)

*Pro+ 800 motorization (both sides) or OP'DRIVE 3.0 (reverse on operator side).

**OP'DRIVE 3.0 motorization (operator side).

INFO

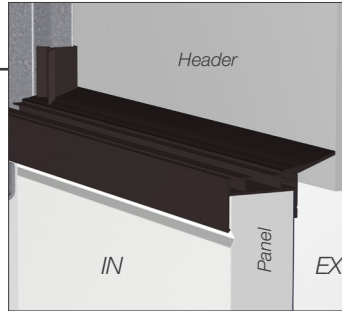
- The dimensions **in green** are those we need to prepare a quote or order
- If the OH or LR or RR are not large enough, a false header or false reservations can be fitted
- Installation layouts are always illustrated from the inside

SEALING

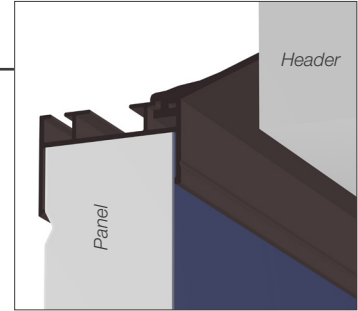
INSULATION
PROTECTION
ELASTICITY
RESISTANCE



01 TOP SEAL

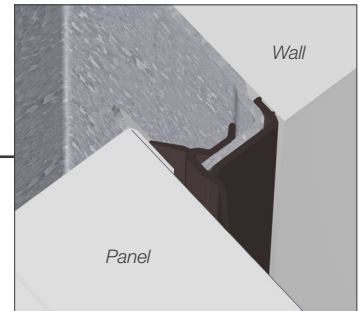


Interior view



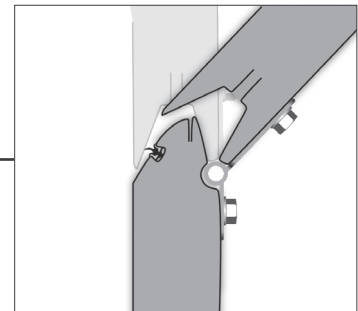
Exterior view
Bi-material lip seal (on top panel)

02 VERTICAL SEAL



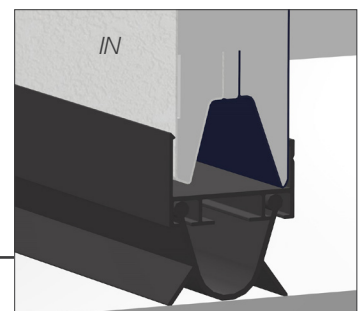
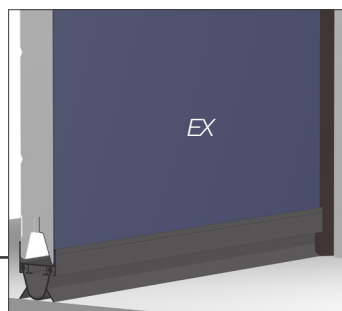
Lip seal (on vertical rails)

03 INTERMEDIATE SEAL



Finger guard joint

04 BOTTOM SEAL



Double lip seal (bottom panel) - Bottom seal door profile with unequal flanges

*For door without wicket door


TYPES OF OPERATION

TYPES OF OPERATION	OPERATORS
MANUAL VERSION	
With or without wicket door: Max. shutter surface = 15 m ²	None (direct pull)
MOTORISED VERSION	
SOMMER	
Without wicket door: Max. shutter surface = 15 m ² With wicket door: Max. shutter surface = 13 m ²	Pro+ 800 Operator (remote head)
OP'DRIVE 3.0	
Without wicket door: Max. shutter surface = 15 m ² With wicket door: Max. shutter surface = 13 m ²	OP'DRIVE 3.0 operator (remote head)

CAUTION

- All our doors are CE marked, in compliance with designated standard NF EN 13241 + A2
They can be operated manually or motorised. Fitting a motorised operator to a manually operated door is the sole responsibility of the installer

OPERATORS

	SOMMER PRO+ 800	OP'DRIVE 3.0*
		
VOLTAGE	24 V	24 V
MAXIMUM POWER	800 N	750 N
MAXIMUM SPEED	210 mm/s	150 mm/s
STANDBY POWER CONSUMPTION	<1 W	≈ 2 W
NUMBER OF CYCLES PER DAY	20	150
EMERGENCY RELEASE	Yes	Yes
SLOW-DOWN AT END OF OPENING/CLOSING	Yes	Yes
PARTIAL DOOR OPENING	Yes	Yes
RADIO FREQUENCY	868 MHz	868 MHz
POWER SUPPLY (OPERATOR OR BOX)	230 V (50 Hz)	230 V (50 Hz)
CURRENT	6 A	8 A
NUMBER OF REMOTE CONTROLS	40	32

*The OP'DRIVE 3.0 operator must be used with its 230 V control box.

OP'DRIVE 3.0

TECHNICAL CHARACTERISTICS OF THE CONTROL BOX

- **Operating buttons** integrated into the front panel with indicator light
- **LCD display** inside the box with drop-down setting buttons (rotating codes)
Settings include: teach-in, operating mode, remote control programming, error reading, cycle counter reading and deletion
- **Force management**
- **Voltage:** single-phase 230 V
- **Power supply: 2 wires**
- **Box housing:** double isolation classe II
- **Max. power:** 750 W
- **Protection class (box): IP 56**
- 230 V, 500 W output: **area lighting** (optional)
- **24 V, 15 W output: signal light (optional)** with 3 sec. warning
- **Transmitter/receiver cell connection terminal block** (optional)
- **Additional controller terminal block**
- **Emergency battery terminal block** (optional)
- **Operating modes:** pulse, partial opening

INFO

- The box is fitted as standard with a cycle counter, a remote control receiver (transmitter optional) and an integrated battery charger (battery optional)

PULSE*

- **Automatic door slow-down** at the end of the movement
- **LED information** on front panel or error message on LCD display
- **Automatic learning** of end positions and operating forces
- **Automatic control** and management of door forces
- **Automatic control** and management of door forces during use (anti-lift, anti-crush)
- **Partial opening** function (adjustable height)
- **Automatic** search for **end positions** in case of manual door release
- **Automatic reopening** in case of obstruction while closing
- Cell **self-test** functions

*The box can also be operated under sustained, combined and automatic pressure (with compulsory cells).

CAUTION

- No additional door security devices are required, whether in a public area or not, as long as the door is operated in full view of the user (2 sets of cells are required if the door is operated out of sight). In public areas where the door is operated out of sight, 2 mandatory sets of cells are required
- In pulse mode, OP'DRIVE 3.0 manages forces automatically without the need for a safety edge

REPAIR MANEUVER DEVICE

- The operator release lever on the vertical rail allows the door to be opened immediately with a direct pull in case of a power cut, for example.

INFO

- The battery option allows the door to operate at reduced speed for 15 to 20 cycles in the absence of mains power. During normal door operation, the battery charge is maintained automatically by the control box (this operator's battery is housed in the control box)

OPERATING MODES

PULSE OPERATION (TRAINED USERS)

In pulse operation mode, the user is required to perform a brief action on the controller which triggers the movement of the shutter: open, stop or close.

Necessary safety devices:

Our operators are equipped with electronic systems for measuring force values, to allow automatic control in order to comply with the maximum lifting and crushing forces required under standard NF EN 13241 + A2. No additional safety devices need to be fitted on the door if it is not in a public area and if the door is in sight when operated. If a door is in a public area or operated out of sight, it must be fitted with 2 mandatory sets of cells.

CONTROL ACCESSORIES			
OP'DRIVE 3.0 OPERATOR		SOMMER PRO+ 800/600	
<p>Remote control</p> 	<ul style="list-style-type: none"> 4-function transmitter as standard <ul style="list-style-type: none"> frequency 868 MHz dimensions: 87 × 24 × 17 mm 	<p>Remote control</p>  <p>Remote control</p> 	<ul style="list-style-type: none"> Pearl 4-function transmitter: <ul style="list-style-type: none"> as standard frequency 868 MHz dimensions: 79 × 26 × 13 mm Pearl Twin, 2 channels: <ul style="list-style-type: none"> radio 2 channels optional on Pro+ 600 operator dimensions: 79 × 26 × 13 mm frequency 868 MHz
COMPATIBLE WITH ALL OPERATORS			
<p>Slider radio remote control</p> 	<ul style="list-style-type: none"> 4-function transmitter: <ul style="list-style-type: none"> as an option frequency 868 MHz dimensions: 55 × 30 × 14 mm 4 radio controls except Pro+ 	<p>Fingerprint reader</p> 	<ul style="list-style-type: none"> Fingerprint reader: <ul style="list-style-type: none"> frequency 868 MHz dimensions: 149 × 69 × 45 mm records up to 80 user fingerprints records up to 9 administrator fingerprints 4-channel programming
<p>Radio button box</p> 	<ul style="list-style-type: none"> Wall-mounted button box: <ul style="list-style-type: none"> radio 3 channels dimensions: 85 × 80 × 14 mm frequency 868 MHz 	<p>Key pad</p> 	<ul style="list-style-type: none"> Wireless key pad: <ul style="list-style-type: none"> frequency 868 MHz dimensions: 147 × 48 × 30 mm aluminum support illuminated buttons
<p>BCE2 - BCA1</p> 	<ul style="list-style-type: none"> Key switch box: <ul style="list-style-type: none"> <u>Flush-mounted:</u> Finger plate <ul style="list-style-type: none"> dimensions: 90 × 100 mm <u>Wall-mounted</u> <ul style="list-style-type: none"> dimensions: 73 × 73 × 78 mm 	<p>SOMMER OPERATOR INFO</p> <ul style="list-style-type: none"> The receivers in the control box are equipped with a "Rolling code" system to protect against radio hacking 	

IN PICTURES



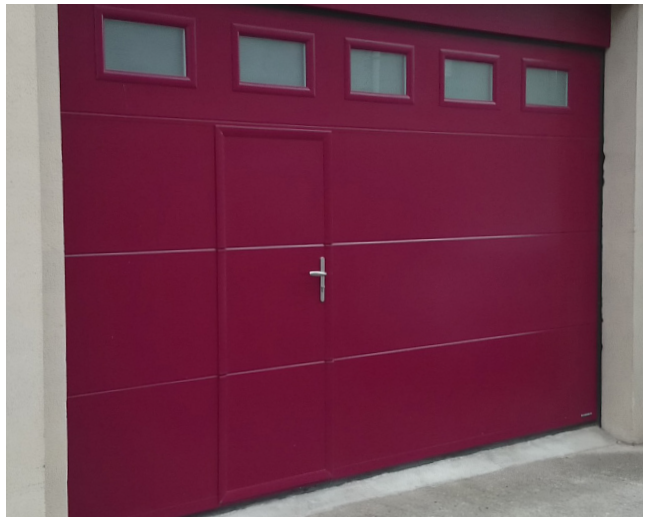
Plain shutter - Smooth finish



Single-grooved shutter - Smooth finish



Plain shutter - Smooth finish



Plain shutter - Smooth finish - Wicket door option with rectangular windows



Shutter with raised panels - Wood-grain finish

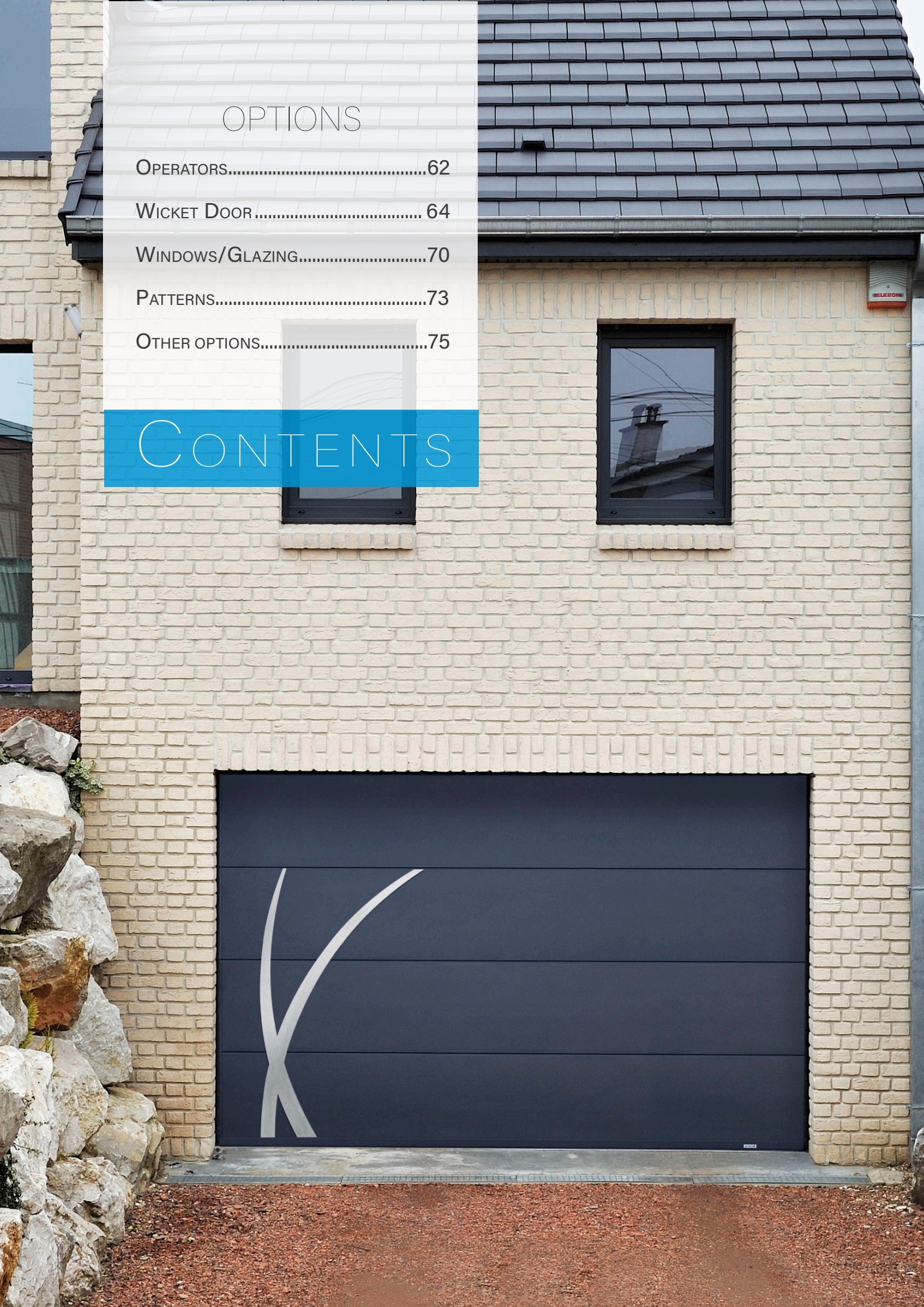


Plain shutter - Smooth finish

OPTIONS









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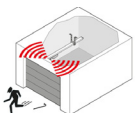
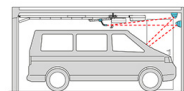
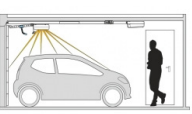

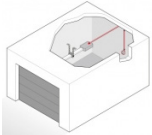






OPTIONS

RE100 AND RT200 MOTORIZATION OPTIONS

MOTORIZATION OPTIONS			
SOMMER			
<p>Receiver</p> 	<ul style="list-style-type: none"> 2/4-function Sommer receiver: <ul style="list-style-type: none"> - Frequency 868 MHz - Dimensions: 125 x 125 x 60 mm - IP 65 	<p>Antenna</p> 	<ul style="list-style-type: none"> - Dielectric rod antenna - Frequency 868 MHz - Cable length ≈ 10 m
<p>Flashing light</p> 	<ul style="list-style-type: none"> Flashing light (works only with the SV 568 box): <ul style="list-style-type: none"> - Dimensions: 123 x 107 mm - Frequency 500 MHz - IP 65 	<p>SV 568 control box</p> 	<ul style="list-style-type: none"> - Dimensions: 110 x 110 x 55 mm - Connects orange-flashing illumination lights (except wicket doors)
SOMFY			
<p>Receiver</p> 	<ul style="list-style-type: none"> Somfy RTS receiver: <ul style="list-style-type: none"> - Frequency 433.42 MHz - Dimensions: 110 x 110 x 40 mm - IP 55 	<p>RTS antenna</p> 	<ul style="list-style-type: none"> - Frequency 433.42 MHz - Cable length ≈ 8 m - Cable diameter: 5 mm
<p>Battery</p> 	<ul style="list-style-type: none"> - Power: 9.6 V - Battery capacity: 1,600 mAh 		
COMPATIBLE WITH ALL OPERATORS			
<p>Release lock</p> 	<ul style="list-style-type: none"> External operator release mechanism Manual opening in case of power failure 		

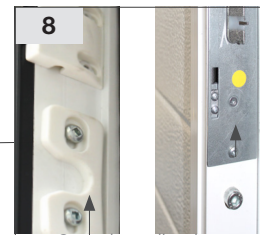
GRANDE VILLA DOOR MOTORIZATION OPTIONS

MOTORIZATION OPTIONS			
SOMMER			
<p>Receiver</p> 	<ul style="list-style-type: none"> 2/4-function receiver: <ul style="list-style-type: none"> - Frequency 868 MHz - Dimensions: 125 x 125 x 60 mm - IP 65 	<p>Antenna</p> 	<ul style="list-style-type: none"> - Dielectric rod antenna - Frequency 868 MHz - Cable length ≈ 10 m
<p>Flashing light</p> 	<ul style="list-style-type: none"> Flashing light: <ul style="list-style-type: none"> - Dimensions: 123 x 107 mm - Frequency 500 MHz - IP 65 	<p>SV 568 control box</p> 	<ul style="list-style-type: none"> - Dimensions: 110 x 110 x 55 mm - Connects orange-flashing illumination lights (except wicket doors)
<p>Lock</p> 	<ul style="list-style-type: none"> Magnetic lock (Pro+ operator only) 	<p>Sensor</p> 	<ul style="list-style-type: none"> Humidity sensor (Pro+ operator only)
<p>Buzzer</p> 	<ul style="list-style-type: none"> Alarm (Pro+ operator only) 	<p>Laser</p> 	<ul style="list-style-type: none"> Parking position device (Pro+ operator only)
<p>Motion</p> 	<ul style="list-style-type: none"> Motion sensor for lighting (Pro+ operator only) 	<p>Accumulator</p> 	<ul style="list-style-type: none"> Emergency battery (Pro+ operator only)
<p>Conex</p> 	<ul style="list-style-type: none"> Transfers door status to smart home systems (Pro+ operator only) 	<p>Pro+ light</p> 	<ul style="list-style-type: none"> Additional LED lighting (Pro+ operator only)
<p>Release lock</p> 	<ul style="list-style-type: none"> External operator release mechanism Manual opening in case of power failure 		
OP'DRIVE 3.0			
<p>Flashing light</p> 	<ul style="list-style-type: none"> Flashing light: <ul style="list-style-type: none"> - Dimensions: 123 x 107 mm - Frequency 500 MHz - IP 65 - Direct connection to box 	<p>Battery</p> 	<ul style="list-style-type: none"> - Power: 12 V - Battery capacity: 3,800 mAh - Number of cycles: between 15 and 20

WICKET DOOR OPTION

PARTS LIST:

1	Concealed door closure with integrated locking system
2	Concealed split hinge
3	Lacquered galvanized steel hinge - White
4	Threshold 60 mm (default) & reduced 35 mm (optional)
5	Handle
6	Multi-point lock
7	Finger guard joint
8	Centralizer
9	Safety switch (wired/radio)



Centering strike plate - Centralizer

- The swing part is equipped with 2 or 3 centralizers to ensure it is always correctly repositioned.
- These centering devices ensure the multi-point lock is properly locked.



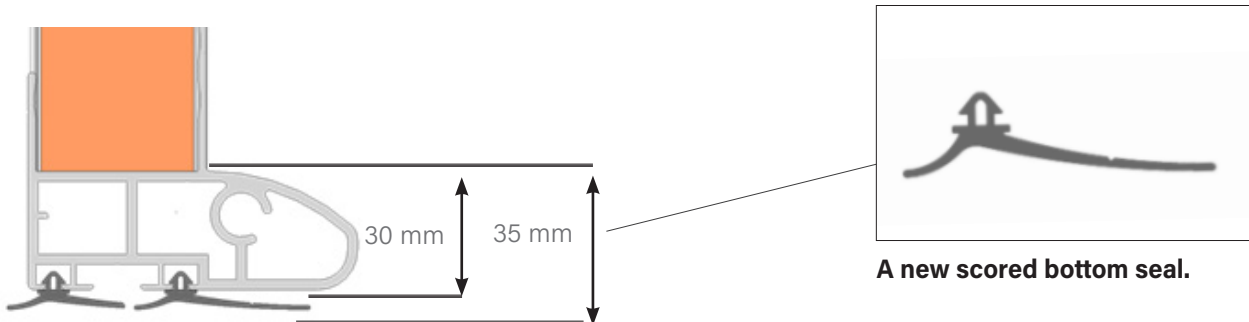
External handle

- Multi-point lock, 1 point per wicket door panel.
- Stainless-steel effect aluminium handle.

CAUTION

- The color of the interior frame (swing gate and frame) of a RAL 7016 wicket door will be RAL 7016
- The color of the interior frame (swing gate and frame) of a RAL 8003 or Medium Oak wicket door will be RAL 8003

REDUCED THRESHOLD:



Available for RT200, RE100 and Grande Villa.
Can be used with the L, XL and XXL 900 wicket doors.

2 colors: black and white.
All bottom seals are assembled on the threshold.

New bottom seal

Cutting the lip can solve various issues:

- Water tightness
- Protection of people and property
- Protection of the lower part of the threshold stiffener

Slide or clip the seal.
The lips can compensate for ground defects of a few millimeters.

Thickness of compressed seal: **5 mm** → **Reduced 35 mm threshold.**

INFO

- The reduced threshold is not PRM (persons with reduced mobility) compatible
- We keep both threshold heights. 60 and reduced (35 mm). By default, we cost the 60 mm threshold
- New designs for doors with a reduced threshold

CAUTION

- Thresholds on all doors equipped with a reduced threshold are black, except lacquered doors!



POSITION OF WICKET DOOR AND WINDOWS

L 660 WICKET DOOR			
CENTERED - OFF-CENTER - OFFSET			
$2,140 \leq PW \leq 2,560$ mm	$2,561 \leq PW \leq 3,500$ mm	$3,501 \leq PW \leq 4,000$ mm	$4,001 \leq PW \leq 5,000$ mm
	 <i>Except raised panels</i>		 <i>Except raised panels</i>

XL 790 WICKET DOOR		
CENTERED AND OFF-CENTER		
$2,140 \leq PW \leq 2,999$ mm	$3,000 \leq PW \leq 3,999$ mm	$4,000 \leq PW \leq 5,000$ mm

DOOR EDGE 230 MM
Alunox windows - Round PVC

$2,140 \leq PW \leq 2,721$ mm	$2,722 \leq PW \leq 3,000$ mm	$3,001 \leq PW \leq 4,000$ mm	$4,001 \leq PW \leq 5,000$ mm

Panel windows

$2,140 \leq PW \leq 2,721$ mm	$2,722 \leq PW \leq 3,439$ mm	$3,440 \leq PW \leq 4,157$ mm	$4,158 \leq PW \leq 5,000$ mm

XXL 900 WICKET DOOR				
CENTERED				
<i>Alunox windows</i>				
2,140 ≤ PW ≤ 3,500 mm		3,500 ≤ PW ≤ 5,000 mm		
<i>Panel Windows</i>				
2,140 ≤ PW ≤ 2,400 mm	2,400 ≤ PW ≤ 4,100 mm	4,100 ≤ PW ≤ 5,000 mm		
WALL EDGE (wicket door on left)				
<i>Alunox Windows</i>				
2,140 ≤ PW ≤ 2,870 mm	2,870 ≤ PW ≤ 3,600 mm	3,600 ≤ PW ≤ 4,320 mm	4,320 ≤ PW ≤ 5,000 mm	
<i>Panel Windows</i>				
2,140 ≤ PW ≤ 2,240 mm	2,240 ≤ PW ≤ 3,000 mm	3,000 ≤ PW ≤ 3,900 mm	3,900 ≤ PW ≤ 4,540 mm	4,540 ≤ PW ≤ 5,000 mm

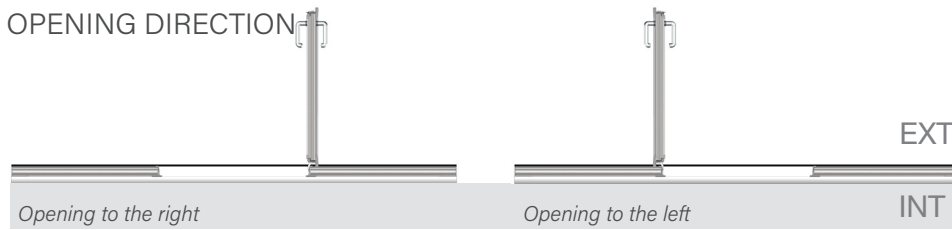
- Window** position possible
- Position of **wicket door**
- Door with torsion springs**
Internal view

INFO

- Only one vertical row of windows: to the right or left of the wicket door
- The same principle applies for wicket doors with 4 x 500 mm panels

CAUTION

- A wicket door is not considered an emergency exit
- It must never be used in a public area
- The maximum surface area of the shutter with the wicket door is 14 m²



CAUTION

- Only the XL wicket door allows a 230 mm wall edge position
- Compatible with all windows except square Alunox windows in a diamond position, windows with rounded corners and the Line window

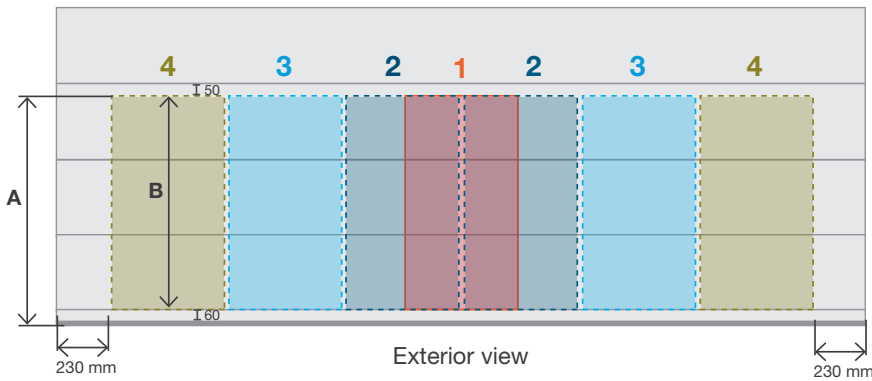
- A wicket door **always opens outwards**.

- There is a safety switch on motorised doors that prevents the door from operating unless the wicket door is properly closed (NF EN 13241 + A2).

XL wicket door: 230 mm wall edge

- Opening to the right if the offset wicket door is situated to the right of the shutter (interior view).
- Opening to the left if the offset wicket door is situated to the left of the shutter (interior view).

WICKET DOOR POSITION



The wicket door position depends on:

- the type of shutter
- the passage width
- the type of wicket door

4 distinct positions:

- centered (1) wicket door
- off-center (2) wicket door
- offset (3) wicket door
- 230 mm wall edge (4) wicket door:
 - 230 mm minimum from the wall edge (exterior view)
 - 250 mm minimum from the panel edge (interior view)
 - XL wicket door only
 - except shutters with raised panels

A = B + 60 mm

L AND XL WICKET DOOR PASSAGE ACCORDING TO PH

Refer to dimensions in diagram above

	ALL SHUTTERS EXCEPT WITH RAISED PANELS AND SINGLE-GROOVED	
	DIMENSION A	DIMENSION B
PH<1,910	PH-45	PH-105
1,910≤PH<1,950	PH-115	PH-175
1,950≤PH<1,965	1,835	1,775
1,965≤PH≤2,380	PH-50	PH-110
2,380<PH<2,410	1,910	1,850
2,410≤PH<2,500	PH-500	PH-560
2,500≤PH<2,510	2,000	1,940
2,510≤PH≤2,660	2,010	1,950
2,660<PH<2,730	PH-640	PH-700
2,730≤PH<2,770	2,120	2,060
2,770≤PH<2,880	2,230	2,170
2,880≤PH<2,910	1,910	1,850
2,910≤PH<3,000	PH-1,000	PH-1,060
3,000≤PH<3,150	2,000	1,940
3,150≤PH<3,270	PH-1,150	PH-1,210
3,270≤PH<3,310	1,960	1,900
3,310≤PH≤3,500	1,980	1,920

	SINGLE-GROOVED SHUTTER	
	DIMENSION A	DIMENSION B
PH<2,030	PH-50	PH-110
2,030≤PH<2,110	PH-125	PH-185
2,110≤PH<2,155	1,980	1,920
2,155≤PH<2,235	PH-255	PH-315
2,235≤PH<2,315	PH-335	PH-395
2,315≤PH<2,510	1,980	1,920
2,510≤PH<2,520	1,990	1,930
2,520≤PH<2,600	PH-620	PH-680
2,600≤PH<2,730	1,980	1,920
2,730≤PH<2,810	PH-830	PH-890
2,810≤PH<3,010	1,980	1,920
3,010≤PH<3,040	2,010	1,950
3,040≤PH<3,120	PH-1,140	PH-1,200
3,120≤PH<3,230	1,980	1,920
3,230≤PH<3,310	PH-1,330	PH-1,390
3,310≤PH≤3,500	1,980	1,920

	SHUTTER WITH RAISED PANELS	
	DIMENSION A	DIMENSION B
PH<1,910	PH-45	PH-105
1,910≤PH<1,960	PH-120	PH-180
1,960≤PH<2,035	1,840	1,780
2,035≤PH<2,040	1,985	1,925
2,040≤PH<2,065	PH-50	PH-110
2,065≤PH<2,070	2,015	1,955
2,070≤PH<2,080	2,025	1,965
2,380≤PH<2,535	1,840	1,780
2,535≤PH<2,595	2,010	1,950
2,595≤PH<2,630	PH-620	PH-680
2,630≤PH<2,705	2,010	1,950
2,990≤PH<3,145	1,840	1,780
3,145≤PH<3,265	2,010	1,950
3,265≤PH<3,315	1,840	1,780

RE100 WICKET DOOR OPTION

LA TOULOUSAIN wicket doors are designed and manufactured to ensure easy pedestrian access through all doors with extension springs equipped with a finger guard joint. This wicket door complies with designated standard NF BS EN 13241:2003+A2:2016. It may open to the left or right (viewed from the inside).

DIMENSION LIMITS OF DOOR WITH EXTENSION SPRINGS WITH WICKET DOOR:

Dimensions given in mm

	Min.	Max.
Bay width WI	2,140	5,000 ⁽²⁾
Bay height HE	1,800	3,000
Reservation width LR/RR	90	

	Manual opening	Motorised opening
OH Min. overhead height ⁽¹⁾	100	120 to 130 depending on the operator
Clearance C	from 2,625 to 3,625 max. ⁽³⁾	from 3,265 to 4,895 max. dep. on the operator
Locking system	interior latch ⁽⁴⁾	operator ⁽⁴⁾

Dimensions of wicket door

Dimensions given in mm

		All finishes (except raised panels)	Raised panel finish
L 660 wicket door	Wicket door passage width	660	
	Wicket door passage height (in relation to ground)	from 1,750 to 2,330	from 1,750 to 2,010
XL 790 wicket door	Wicket door passage width	790	
	Wicket door passage height (in relation to ground)	from 1,750 to 2,330	
XXL 900 wicket door	Wicket door passage width	900	
	Wicket door passage height (in relation to ground)	from 1,750 to 3,000	

Min. PH = 1,960 mm for single-grooved panels

MAXIMUM HEIGHT OF GARAGE DOOR WITH WICKET DOOR IN RELATION TO RE100 WIDTH

	Passage width	Passage height	
		Without windows or with PVC glazed windows	With Alunox® or Double-glazed panel windows Horizontal (HR) or Vertical row (VR)
Plain Single-Grooved smooth or textured	2,140 < PW < 3,500	2,500	2,500 (HR and VR)
	3,501 < PW < 4,000	2,500	2,400 (HR and VR)
	4,001 < PW < 4,500	2,400	2,200 (HR)-2300 (VR)
	4,501 < PW < 5,000	2,000	not possible
High Groove smooth or textured	2,140 < PW < 3,100	2,500	2,500 (HR and VR)
	3,101 < PW < 3,500	2,500	2,400 (HR and VR)
	3,501 < PW < 4,000	2,400	2,200 (HR)-2300 (VR)
	4,001 < PW < 4,500	2,200	not possible (HR and VR)
Grooved Micro-grooved Raised panels	2,140 < PW < 4,000	2,500	2,500 (HR and VR)
	4,001 < PW < 4,500	2,500	2,300 (HR and VR)
	4,501 < PW < 4,750	2,400	2,300 (HR and VR)
	4,751 < PW < 5,000	2,350	not possible (HR)-2,200 (VR)

CAUTION

- A wicket door is not considered an emergency exit
- It must never be used in a public area
- The maximum surface area of the shutter with the wicket door is 14 m²

INFO

- Wind-resistance classification: class 2 according to standard NF EN 13241 + A2
- Compatible with all shutters except Visio

Height is calculated in relation to the ground - The wicket door height is 3 or 4 panels depending on the door design.

(2) For Plain and Single-Grooved doors with Alunox® windows or double-glazed panel windows: WI 4,500 max.

(3) According to PH dimensions.

(4) Optional latch or lock: passage height is reduced by 90 mm at the position of the latch or lock.

RT200 WICKET DOOR OPTION

LA TOULOUSAINNE wicket doors are designed and manufactured to ensure easy pedestrian access through all doors with torsion springs equipped with a finger guard joint. This wicket door complies with designated standard NF EN 13241 + A2. It may open to the left or right (viewed from the inside).

DIMENSION LIMITS OF DOOR WITH TORSION SPRINGS WITH WICKET DOOR:

		RT200 max. surface: 14 m ²	
		Min.	Max.
L 660 wicket door	Bay width WI	2,140	5,000 4,000 (raised panels)
	Bay height HE	1,800 1,855 (raised panels)	2,500
XL 790 wicket door	Bay width WI	2,140	5,000
	Bay height HE	1,800 1,855 (raised panels)	3,000
	Reservation width LR/RR	90	
XXL900 wicket door	Bay width WI	2,140	5,000
	Bay height HE	1,800 1,855 (raised panels)	3,000

	Manual opening	Motorised opening
OH Min. overhead height	200	
Clearance C	from 2,625 to 3,625 max.	from 3,265 to 4,895 max. depending on the operator
Locking system	interior latch	operator

*Refer to the "Large doors with torsion springs" chapter for greater heights.

INFO

- Wind-resistance classification: class 2 according to standard NF EN 13241 + A2
- Compatible with all shutters except Visio

WICKET DOOR PASSAGE DIMENSIONS:

		All finishes (except raised panels)	Raised panel finish
L 660 wicket door	Wicket door passage width	660	
	Wicket door passage height (in relation to ground)	from 1,750 to 2,330	from 1,750 to 2,010
XL 790 wicket door	Wicket door passage width	790	
	Wicket door passage height (in relation to ground)	from 1,750 to 2,330	
XXL900 wicket door	Wicket door passage width	900	
	Wicket door passage height (in relation to ground)	from 1,750 to 3,000	

Min. PH = 1,960 mm for single-grooved panels

Height is calculated in relation to the ground - The wicket door height is 3 or 4 panels depending on the door design.

GRANDE VILLA WICKET DOOR OPTION - LARGE DOORS

LA TOULOUSAINE wicket doors are designed and manufactured to ensure easy pedestrian access through all doors with torsion springs equipped with a finger guard joint. This wicket door complies with designated standard NF EN 13241 + A2. It may open to the left or right (viewed from the inside).

DIMENSION LIMITS OF DOOR WITH TORSION SPRINGS WITH WICKET DOOR:

		Grande Villa (GV) ⁽⁴⁾ max. surface: 15 m ²	
		Min.	Max.
L 660 wicket door	Bay width WI	2,400	5,000 4,000 (raised panels)
	Bay height HE	2,200	3,500
XL 790 wicket door	Bay width WI	2,400	5,000
	Bay height HE	2,200	3,500
	Reservation width LR/RR ⁽¹⁾	130 250 (Int. 400) ⁽²⁾	
XXL 900 wicket door	Bay width WI	2,400	5,000
	Bay height HE	2,200	3,500

	Manual opening	Motorised opening
	OH Min. overhead height ⁽¹⁾	Without slope
450		510 (Pro+800) 450 (Int. 400)
With slope (max. 15° - 26%)		
Clearance C	460	510 (Pro+ 800) 460 (Int. 400)
	BH + 636	5,300 max.
Locking system	interior latch	operator + interior latch

INFO

- Wind-resistance classification: class 2 according to standard NF EN 13241 + A2
- Compatible with all shutters except Visio

WICKET DOOR PASSAGE DIMENSIONS:

		All finishes (except raised panels)	Raised panel finish
L 660 wicket door	Wicket door passage width	660	
	Wicket door passage height (in relation to ground)	from 1,910 to 2,330	from 1,750 to 2,010
XL 790 wicket door	Wicket door passage width	790	
	Wicket door passage height (in relation to ground)	from 1,910 to 2,330	
XXL 900 wicket door	Wicket door passage width	900	
	Wicket door passage height (in relation to ground)	from 1,750 to 3,000	

Height is calculated in relation to the ground - The wicket door height is 3 or 4 panels depending on the door design.

CAUTION

- A wicket door is not considered an emergency exit
- It must never be used in a public area
- The maximum surface area of the shutter with the wicket door is 14 m²

WINDOW OPTIONS

WINDOWS - HORIZONTAL POSITIONING Except for wicket door: refer to page 65

Horizontal alignment

- 1 single row of windows

Number of windows*

*For wicket doors, contact us

PW Passage width	Rectangular
$PW \leq 2,560$	3
$2,560 < PW \leq 3,500$	4
$3,500 < PW \leq 4,000$	5
$4,000 < PW \leq 5,000$	6

Dimensions in mm

PW Passage width	Alunox®	Round Plexiglas
$PW < 2,000$	1	2
$2,000 \leq PW < 2,400$	2	3
$2,400 \leq PW \leq 3,000$	3	4
$3,000 < PW \leq 4,000$	4	5
$4,000 < PW \leq 5,000$	5	6

Dimensions in mm

ATTENTION

- Min. PH for:
Single-grooved shutter: 1,880 mm (1,960 if wicket door)
Shutter with raised panels: 1,925 mm
Other panels: no limit
- For RT200: Max. PW = 3,100 mm for:
- Plain shutter
- Smooth finish
- With optional rectangular window (double-glazed) or Alunox
- Single-grooved shutter - Smooth finish
- Single row of windows per shutter

WINDOWS - VERTICAL POSITIONING

RE100 AND RT200

PW Passage width	Rectangular or round
$1,780 \leq PH \leq 1,910$	3
$1,910 < PH \leq 2,460$	4
$2,460 < PH \leq 3,500$	5

Dimensions in mm

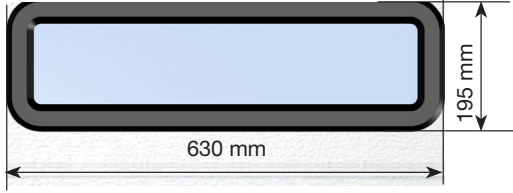

GRANDE VILLA

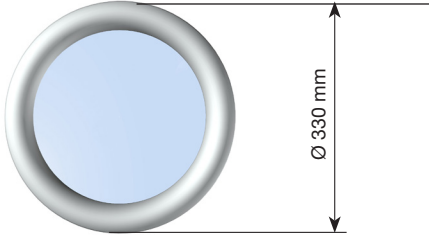
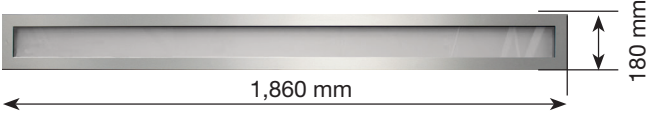
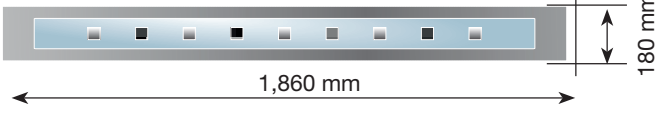
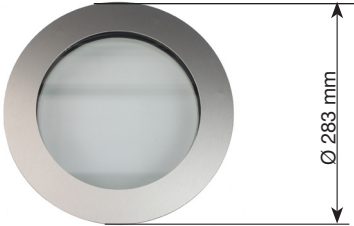


PW Passage width	Rectangular or round
$PH \leq 1,1929$	
$1,929 < PH \leq 2,450$	4
$2,450 < PH \leq 3,060$	5
$3,060 < PH \leq 3,430$	6
$3,430 < PH \leq 3,490$	7
$3,490 < PH \leq 3,500$	6

CAUTION

- No lock with a vertical row of windows
- 1 single window per panel
- 1 single row of windows (on right or left)
- Not compatible with shutters with raised panels
- Line window: PH (min.) = 1,890 mm / PH (max.) = 2,250 mm

TYPE OF WINDOW

 <p>Clear view: 566 x 135 mm</p>	<p>WINDOW WITH ROUNDED CORNERS</p> <p>Not compatible with shutters with raised panels, single-grooved shutters or shutters with integrated wicket door</p> <ul style="list-style-type: none"> - Double-wall glazing - Transparent Acrylic glazing - Glazing thickness 2 mm - Black frame only - Horizontal positioning only
 <p>Clear view: 415 x 215 mm</p>	<p>RECTANGULAR WINDOW</p> <ul style="list-style-type: none"> - Double-wall glazing - Plexiglas glazing - Exterior frame in same color as door - Window position: horizontal/vertical

 <p>Clear view: Ø 225 mm</p>	<p>ROUND WINDOW</p> <p>Not compatible with shutters with raised panels</p> <ul style="list-style-type: none"> - Double-wall glazing - Plexiglas glazing - Exterior frame in same color as door - Window position: horizontal/vertical
 <p>Clear view: 1,780 x 100 mm</p>	<p>ALUNOX LINE WINDOW</p> <p>Not compatible with shutters with raised panels</p> <ul style="list-style-type: none"> - Frosted triple-glazed: 33.2 / 12/4 / 12/4 - Exterior frame: laminated, anodized aluminum (2 mm thick) - Brushed effect achieved by anodizing - Corrosion- and scratch-resistant - 1 window / panel in horizontal position - Door dimensions: PH (min.) = 1,850 mm / PH (max.) = 2,500 mm PW (min.) = 2,200 mm / PW max. = 5,000 mm
 <p>Clear view: 1,780 x 100 mm</p>	<p>ALUNOX WINDOW DECORATION 2</p> <p>Not compatible with shutters with raised panels</p> <ul style="list-style-type: none"> - Frosted PMMA double-glazed: 8 x 24 x 8 - Exterior frame: laminated, anodized aluminum (2 mm thick) - Brushed effect achieved by anodizing - Corrosion- and scratch-resistant - 1 window / panel in horizontal position - Door dimensions: PH (min.) = 1,850 mm / PH (max.) = 2,500 mm PW (min.) = 2,200 mm / PW max. = 5,000 mm
 <p>Clear view: Ø 235 mm</p>	<p>ROUND ALUNOX WINDOW</p> <p>Not compatible with shutters with raised panels</p> <ul style="list-style-type: none"> - Double-glazed: 2 x 3 mm thick glass panes with intermediate lamination: 33.2 - 18/4 - Exterior frame: laminated, anodized aluminum (2 mm thick) - Brushed effect achieved by anodizing - Corrosion- and scratch-resistant - Window position: horizontal/vertical
 <p>Clear view: 208 x 208 mm</p>	<p>SQUARE ALUNOX WINDOW</p> <p>Not compatible with shutters with raised panels</p> <ul style="list-style-type: none"> - Double-glazed: 2 x 3 mm thick glass panes with intermediate lamination: 33.2 - 18/4 - Exterior frame: laminated, anodized aluminum (2 mm thick) - Brushed effect achieved by anodizing - Corrosion- and scratch-resistant - Window position: horizontal/vertical
 <p>Clear view: 208 x 208 mm</p>	<p>ALUNOX WINDOW DECORATION 1</p> <p>Not compatible with shutters with raised panels</p> <ul style="list-style-type: none"> - Frosted PMMA double-glazed 8 x 24 x 8 - Exterior frame: laminated, anodized aluminum (2 mm thick) - Brushed effect achieved by anodizing - Corrosion- and scratch-resistant - Window position: horizontal/vertical

GLAZING OPTIONS







		WINDOW WITH ROUNDED CORNERS	RECTANGULAR WINDOW	ROUND WINDOW	ALUNOX WINDOW ROUND - SQUARE DECORATION 1	LINE ALUNOX WINDOW - DECORATION 2
	TRANSPARENT GLAZING <ul style="list-style-type: none"> PMMA* (int.-ext.) - Th. 3 mm and 3 mm 	√	√	√		
	TRANSPARENT GLAZING <ul style="list-style-type: none"> Double-glazed (int.-ext.) Th. window block = 21 mm (including gap) => Ref. 33/2** - 16 - 4 		√		√	√
	FROSTED GLAZING <ul style="list-style-type: none"> Double-glazed (int.-ext.) Th. window block = 21 mm (including gap) => Ref. 33/2** - 16 - 4 		√		√	√
	RANDOM GRANITE GLAZING <ul style="list-style-type: none"> PMMA* (int.-ext.) - Th. 3 mm and 3 mm 			√		
	GRANITE GLAZING <ul style="list-style-type: none"> PMMA* (int.-ext.) - Th. 3 mm and 3 mm 		√			
	SQUARE MASTER <ul style="list-style-type: none"> Double-glazed (int.-ext.) Th. window block = 21 mm (including gap) => Ref. 33/2** - 16 - 4 		√			
	DELTA MATTE <ul style="list-style-type: none"> Double-glazed (int.-ext.) Th. window block = 21 mm (including gap) => Ref. 33/2** - 16 - 4 		√			
	TRANSPARENT GLAZING <ul style="list-style-type: none"> Double-glazed (int.-ext.) 4 rFloat/AB10/33.2F** Opale Th. window block = 20.76 mm (including gap) Brass muntin 1H+1V brass cross (brass-colored aluminum) 10 x 8 mm 		√			
	OPAL GLAZING <ul style="list-style-type: none"> Double-glazed (int.-ext.) 4 rFloat/AB10/33.2** - 16 - 4 Th. window block = 20.76 mm (including gap) Brass muntin 1H+1V brass cross (brass-colored aluminum) 10 x 8 mm 		√			

*Plexiglas® or PMMA is a UV-resistant material with excellent light transmission properties.

**Double-glazed glass with 2 security films on the inside.

PATTERN OPTIONS

PMMA GLAZING AND ALUMINUM PATTERNS

<p>TRADITIONAL • PMMA glazing with aluminum patterns</p>	 <p><i>Half-circle</i></p>	 <p><i>Sun</i></p>	 <p><i>Diamond</i></p>	 <p><i>Cross</i></p>
<p>SUNSET • Spread across 3 raised panels</p>				
<p>SUNSET • Spread across 4 raised panels</p>				
<p>SUNSET • Spread across 5 raised panels</p>				

INFO

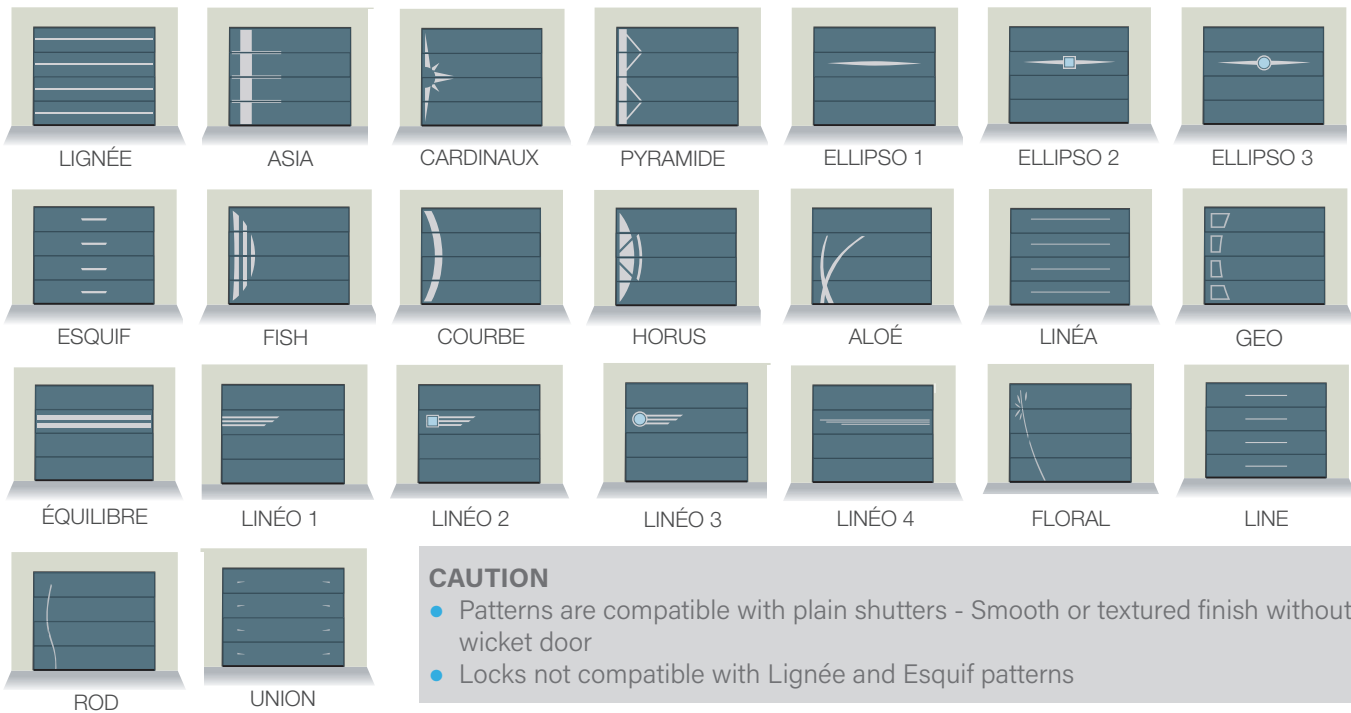
- The exterior of the pattern will match the color of the door
- The patterns are created from aluminum, for greater sunlight and UV resistance

ALUNOX PATTERNS (RE100 AND RT200)

Alunox patterns: thickness 2 mm - horizontal pinning.

Finish: 0.5 mm 45° chamfer on the outside of each pattern.

All patterns have rounded corners (to different degrees depending on the pattern).



CAUTION

- Patterns are compatible with plain shutters - Smooth or textured finish without wicket door
- Locks not compatible with Lignée and Esquif patterns

ALUNOX PATTERN DIMENSION LIMITS

DIMENSION LIMITS			ASIA - CARDINAUX COURBE - FISH HORUS - LINE PYRAMIDE ⁽³⁾	ALOÉ	ELLIPSO LINÉO	ESQUIF ⁽⁴⁾	ÉQUILIBRE ⁽⁴⁾	LIGNÉE ⁽³⁾	LINÉO 4	FLORAL ⁽⁶⁾	GÉO - TIGE ⁽⁶⁾	UNION - LINÉA ⁽⁴⁾
OVERHEAD CLEARANCE	PASSAGE WIDTH	Min.	1,800 mm	1,800 mm	2,000 mm	1,800 mm	1,800 mm	1,800 mm	2,200 mm	1,800 mm	1,800 mm	1,800 mm
		Max.	5,000 mm	5,000 mm	5,000 mm	5,000 mm	5,000 mm	5,000 mm	5,000 mm	5,000 mm	5,000 mm	5,000 mm
	PASSAGE HEIGHT	Min.	1,940 mm	1,850 mm	1,900 mm	1,850 mm	1,850 mm	1,850 mm	1,850 mm	1,980 mm	1,980 mm	1,980 mm
		Max.	3,000 mm	3,000 mm	3,000 mm	2,500 mm	2,500 mm	2,500 mm	2,500 mm	2,500 mm	2,500 mm	2,500 mm

(1) The maximum length of the Equilibre pattern is 2,500 mm, for doors longer than this, it must be centered.

(2) The maximum length of the Lignée pattern is 3,000 mm, for doors longer than this, it must be centered.

(3) Patterns can be positioned on the right or left (except Line).

(4) Esquif, Equilibre, Union and Linéa patterns are not available for: 281 mm < PH < 2,350 mm.

(5) If PH > 2,280: no pattern on top panel.

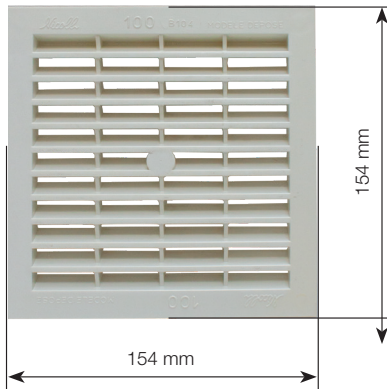
(6) In some cases, no windows are possible on the top panel.

ADDITIONAL OPTIONS

CHOICE OF RAL

Doors can be customized by choosing a **RAL** from the **180** range (more details p. 16).

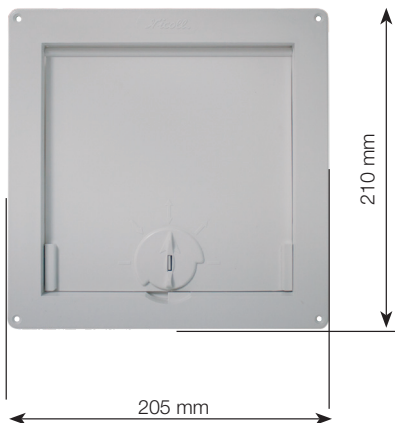
VENTILATION GRILLE



- For all shutters except single-grooved
- Dimensions: 154 mm x 154 mm
- Air flow: 100 cm³
- Lacquered in same color as door
- Horizontal positioning: single row on bottom panel

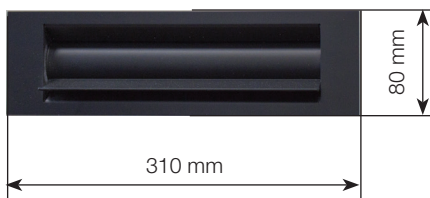
	NUMBER OF GRILLES
2,000 mm ≤ PW ≤ 2,560 mm	3
2,560 mm < PW ≤ 3,500 mm	4
3,500 mm < PW ≤ 4,000 mm	5
4,000 mm < PW ≤ 5,000 mm	6

PET DOOR



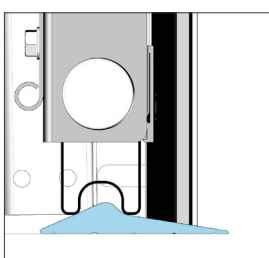
- For all shutters except single-grooved and with raised panels
- Dimensions: 205 mm x 210 mm
- Color: white
- Locks in entry, exit or entry/exit position
- Always positioned on the left or right side of the bottom panel

LETTER BOX

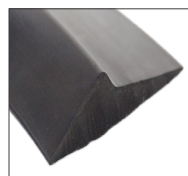


- For all shutters
- Dimensions: 310 mm x 80 mm
- Color: black
- Two aluminum shutters
- No mail catcher
- Positioning: on the left or right of the 2nd panel from the bottom

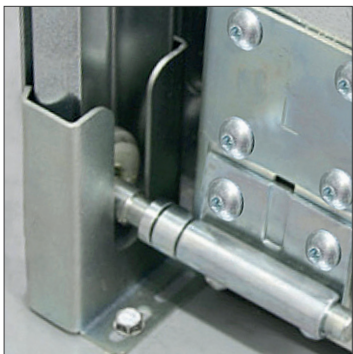
WEATHER SEAL



- Compensates for defects in the ground
- Guaranteed sealing



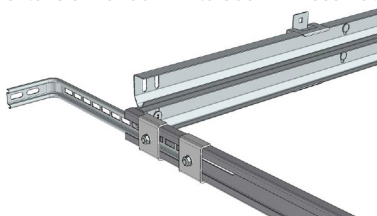
SECURITY KIT (RE100 AND RT200)



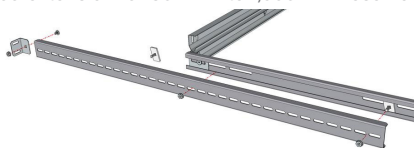
- Reinforces the door structure
- Limits the derailment of bottom rollers in case of attempted
- Break-ins
- Additional ground attachment points
- Recommended for extra security
- Attachment on door already installed
- Composition:
 - 2 low hanging brackets
 - 8 intermediate plates (to be placed on the first 8 rollers from the bottom)
 - mounting hardware

2 ROD EXTENSIONS (RE100 AND RT200)

Rod extension for 90 mm to 300 mm reservation



Rod extension for 301 mm to 1,000 mm reservation



- Simpler installation
- Opener attached to side walls
- Rod extension for 90 mm to 300 mm reservation
- Rod extension for 301 mm to 1,000 mm reservation

LOCK (RE100 AND RT200)



- Option to order a 2-point lock instead of the latch
- Lock with shim

LOCK (RE100 AND RT200)

- Optional lock on motorised doors

TANDEM ROLLER (RE100 AND RT200)



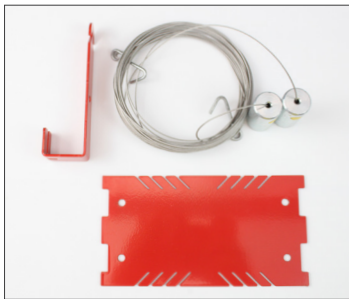
RE100



RT200

- Optional at no extra cost
- Wear-resistant
- Silent operation
- Smooth operation
- White lacquered support
- Shoulder: long (RE100)
- Shoulder: OH = 200 mm (RT200)
- Not compatible with the wicket door (RT200)

RAIL ADJUSTMENT KIT (RE100 AND RT200)



- Kit for checking the horizontal rails
- Installation guide for checking the diagonals
- 3 kits available for different lengths:
 - 3,800 mm
 - 4,300 mm
 - 4,900 mm

OMEGA STIFFENER KIT



- For door without wicket door
- Limits the bimetallic effect (possible bending under the effect of direct sunlight, recommended for dark colors)
- For on-site installation: flat panel (before assembly)
- Passage width \geq 3,500 mm
- Kit contents:
 - 2 Omega stiffeners
 - 50 Avex rivets 4 x 11 mm
- Stiffener position: top panel or 1st intermediate panel from top

PROTECTIVE HOUSING (RE100)



- Spring protection
- Additional personal safety (no direct access to the spring)
- Materials: black PVC
- Aesthetic: fully conceals springs

FALSE HEADERS AND FALSE RESERVATIONS (CLADDING)



- If the overhead height is insufficient, a false cladding header will be required
- If the reservation(s) is/are insufficient, one or two false cladding reservation(s) will be required
- Max. height for false headers = 510 mm and width of false reservations = 510 mm

FALSE HEADERS AND FALSE RESERVATIONS \leq 200 MM

6 aluminum tube dimensions, lacquered white or the same color as the door.

- Various dimensions:
 - 40 x 40 mm
 - 60 x 40 mm
 - 80 x 40 mm
 - 100 x 40 mm
 - 150 x 40 mm
 - 200 x 40 mm.
- If the dimensions are different from those of standard tubes, we use the dimensions of the upper tube for door calculations.
- Seal overhangs are possible (header = 20 mm / reservation = 20 mm).

FALSE HEADERS AND FALSE RESERVATIONS $>$ 200 MM

A smooth panel is used with 20 mm steel U profiles for the frame.

INFO

- False headers and false reservations are custom-made and lacquered to match the color of the door:
 - for a Medium Oak door, they will be lacquered in RAL 8003

SUMMARY TABLE

	PLAIN	SINGLE-GROOVED	HIGH GROOVE	GROOVED	MICRO-GROOVED	PANELS	VISIO
LETTER BOX	√	√	√	√	√	√	√
PROTECTIVE HOUSING	√	√	√	√	√	√	√
EXT. OPERATOR RELEASE MECHANISM	√	√	√	√	√	√	√
FALSE HEADERS/RESERVATIONS	√	√	√	√	√	√	√
TANDEM ROLLER	√	√	√	√	√	√	√
VENTILATION GRILLES	√		√	√	√	√	√
ALUNOX WINDOWS	√	√	√	√	√		
WINDOWS WITH ROUNDED CORNERS	√	√	√	√	√		
RECTANGULAR WINDOWS	√	√	√	√	√	√	
ROUND WINDOWS	√	√	√	√	√		
RAIL ADJUSTMENT KIT	√	√	√	√	√	√	√
OMEGA STIFFENER KIT	√	√	√	√	√	√	√
SECURITY KIT	√	√	√	√	√	√	√
CHOICE OF RAL	√	√	√	√	√	√	√
ROD EXTENSION	√	√	√	√	√	√	√
LOCK	√	√	√	√	√	√	√
WEATHER SEAL	√	√	√	√	√	√	√
PET DOOR	√		√	√	√		√
LATCH	√	√	√	√	√	√	√

SIDE-SLIDING

DESCRIPTION.....	81
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CONTENTS

SIDE-SLIDING DOORS

- For single-family homes
- No ceiling mounting
- Closes a garage
- Insulates and protects
- Facilitates access
- No external overhang
- Manual or motorised operation
- Can be used in complete safety
- Smaller reservations and dimensions

DESCRIPTION

SHUTTERS

Compatible with all shutters except shutters with raised panels, single-grooved and Visio.
More details on page 9.

LIMITS OF USE

	Min.	Max.
Bay width WI	1,900	5,000
Bay height HE	1,850 (wicket door and lock optional) 1,800 (no options)	3,000 (unless manual wicket door)

TYPES OF OPENING

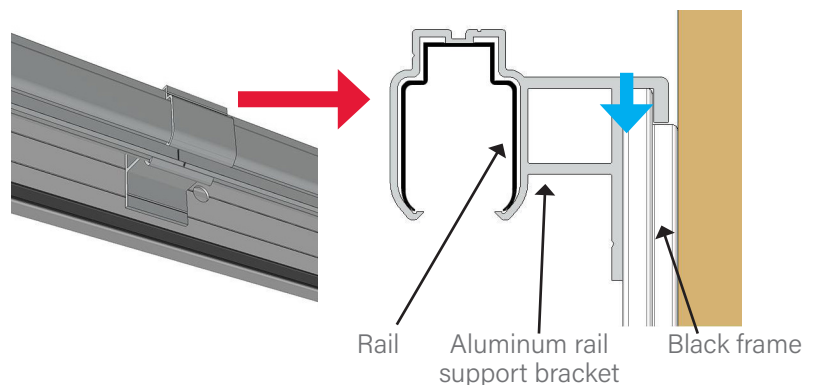
- **Opening to 90°:** Overhead height (OH) min. = 100 mm, for the manual or motorised version.
100 mm ≤ (OH) min. ≤ 300 mm: depending on the motorization configuration.
- **Right-hand opening:** Overhead height (OH) min. = 110 mm, for the manual or motorised version.
Minimum reservation on clearance side = PW + 230 mm.

INFO

- All our doors comply with the requirements of designated standard NF BS EN 13241:2003+A2:2016
- A false header and false reservations are available to adapt to a lower overhead height or reservations

GUIDES

- Black aluminum frame
- Aluminum top rail
- Carriages equipped with 4 nylon® (PA6-6) rollers with ball bearings
- Aluminum threshold (bottom guide)
- Black aluminum stop
- Guide runners
- Reinforced polyamide (6-6) curve



SEALING

- Brush seals:
 - on the reservation opposite clearance
 - on the panel on the clearance side (depending on the dimensions of the reservation)
 - on the exterior at the bottom of each panel
- Lip seal:
 - on the header
 - on the panel on the clearance side (depending on the dimensions of the reservation)

INFO

- The door with a frame provides a better seal: the shutter always positions itself the same way on the seals (ideal for renovation)

TYPES OF OPERATION

- **Manual operation** by direct pull
- Motorised operation by "push-pull" operator with anti-crush/anti-lifting device protection (NF BS EN 13241:2003+A2:2016)

	Manual opening*		Motorised opening	
RC Min. width of reservation on clearance side	225		175	
RO Min. width of reservation on side opposite clearance	90		90	
OH Min. overhead height ⁽²⁾	from 110 to 330 depending on the motorization configuration			
C Max. clearance	Opening to 90°	Right-hand opening	Opening to 90°	Right-hand opening
	WI - RC + 1,450 max.	BW + 230	WI - RC + 1,450 max.	BW + 230 max.
Locking system	latch or lock as option		optional operator and/or latch	

*A manual door with a wicket door cannot be retrofitted with an operator.

MODES OF OPERATION

- Control device requiring a brief manual action to initiate movement: open, stop or close
- Two additional factors must be taken into consideration:
 - The user: trained*
 - The installation site: whether or not it is in a public area

=> In the case of our operators, these two factors suffice, there is no need for an additional safety accessory if the door is operated in full view of the user. In public areas where the door is operated out of sight, 2 mandatory sets of cells and a flashing spot are required.

INFO

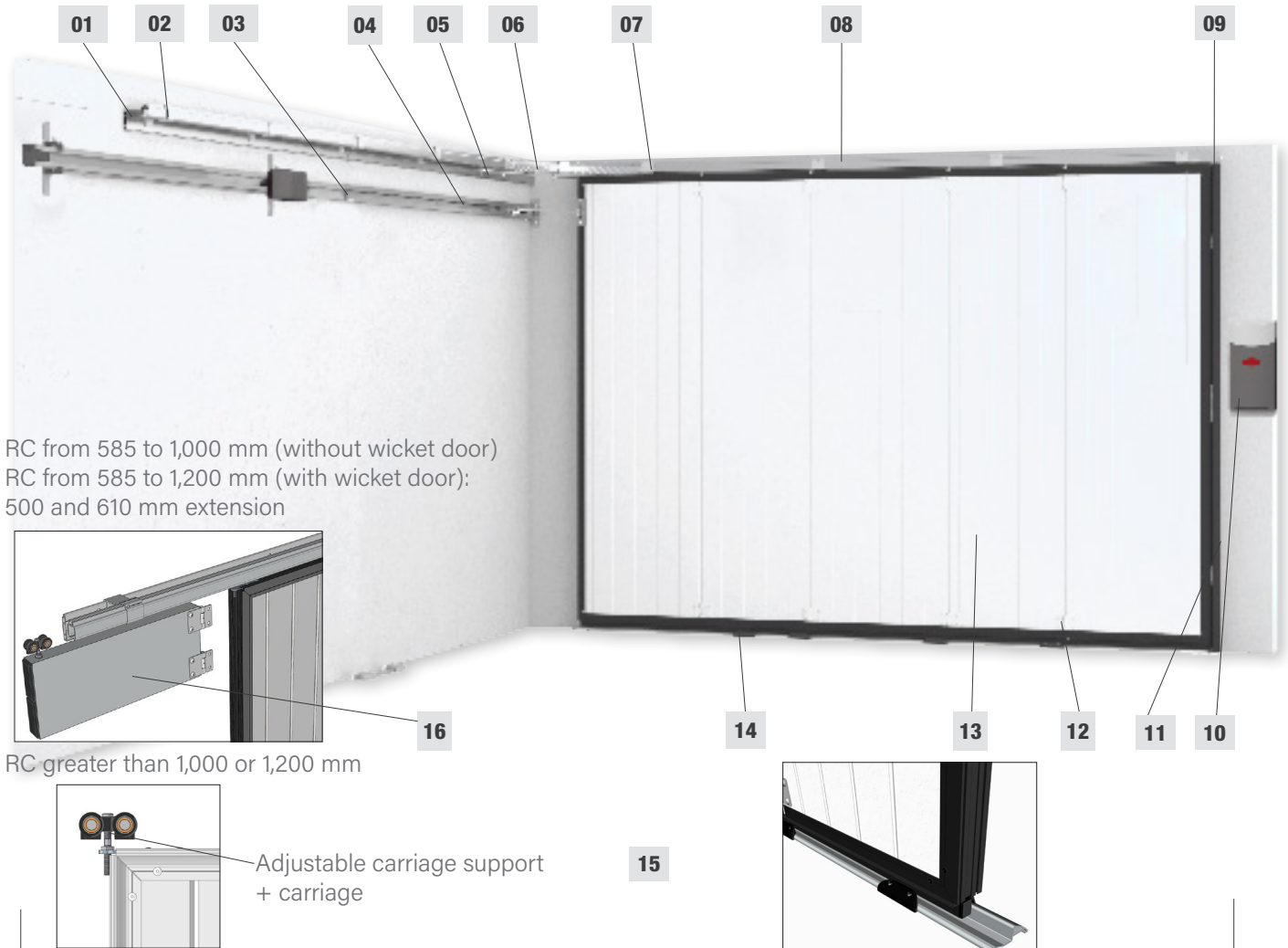
- *A user is considered to have been "trained" if the installer has given them the manufacturer's instructions on how to use the product
- The designated standard BS EN 13241:2003+A2:2016 requires that a user guide and a maintenance logbook (+ removal instruction leaflet) be provided with each installation

OPTIONS

- Wicket door, windows, colors (180 RAL), lock, ventilation grilles, pet door, letter box, external operator release, etc.
- False header and false reservations (cladding).

More details on page 91.

PARTS LIST

DOOR WITH RC OR RO ≤ 585 MM

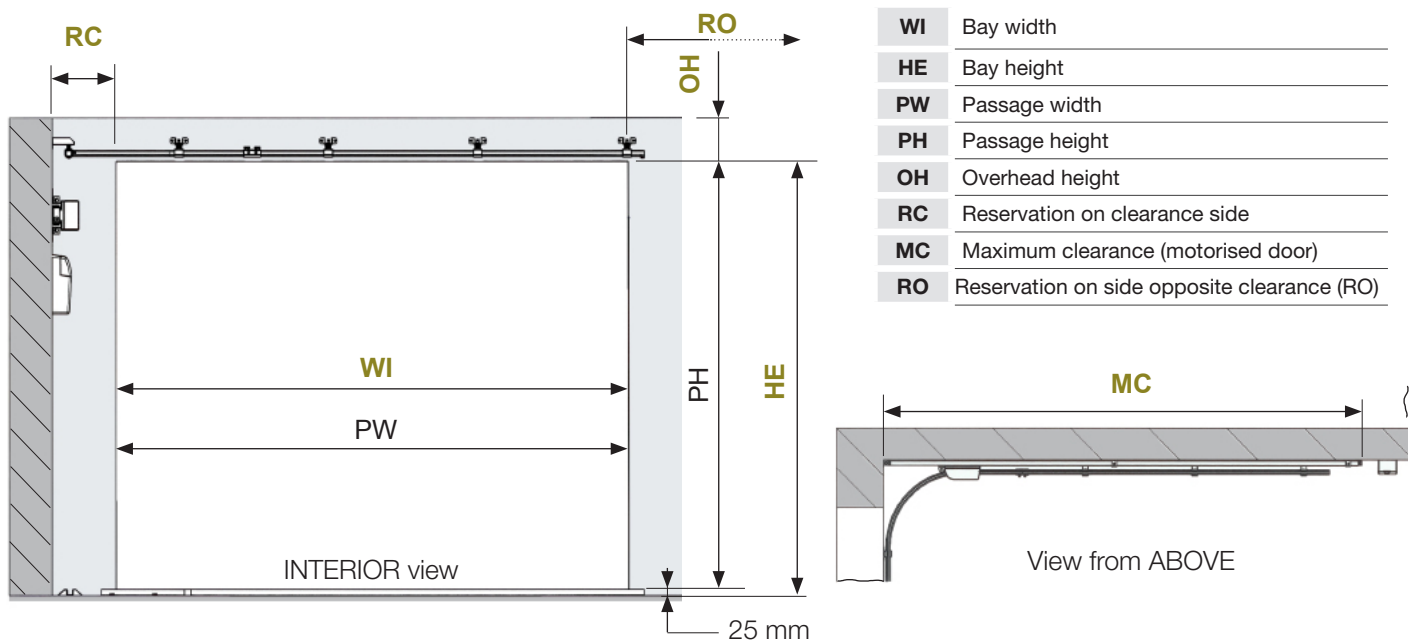
- | | |
|--------------------------------------|---|
| 1 Stop | 9 Seal (see details p. 99) |
| 2 Rail support bracket (long) | 10 Sommer operator control box |
| 3 Operator guiding rail | 11 Black frame |
| 4 Top guiding rail on clearance side | 12 Hinges |
| 5 800 mm arm for LR/RR ≤ 585 mm | 13 Insulated double-wall panels with finger guard |
| 6 Curve | 14 Threshold runners |
| 7 Rail support bracket (short) | 15 Anti-unhinging guiding carriage |
| 8 Top guiding rail on bay side | 16 Extension |

INFO

- If RC > 1,000 mm, the operator is positioned on the ceiling or header, depending on the overhead height (See the necessary overhead heights p. 81)

TYPES OF OPENING

OPENING TO 90°



	OPERATOR ON OPENING WALL	OPERATOR ON CEILING*	OPERATOR ON HEADER*
OVERHEAD HEIGHT (MIN. OH)	100 mm	110 to 220 mm max.	260 to 330 mm max.
RESERVATION OPPOSITE CLEARANCE (MIN. RO)	90 mm (Sommer) - from 330 to 500 (Somfy)		
RESERVATION ON CLEARANCE SIDE (MIN. RC)	225 mm (manual) / 175 mm (motorised)		
MINIMUM PASSAGE HEIGHT (PH MIN.) IF WICKET DOOR	1,850 mm		
MINIMUM PASSAGE HEIGHT (PH MIN.) NO WICKET DOOR	1,800 mm		
MAXIMUM PASSAGE HEIGHT (PH MAX.)	3,000 mm (2,250 mm if manual wicket door)		

*Sommer operator: only if RC > 1,000 or 1,200 mm.

INFO

The dimensions **in green** are those we need to prepare a quote or order

- If the OH or LR or RR are not large enough, a false header or false reservations can be fitted

CAUTION

- Installation layouts are always illustrated from the inside
- PW = WI: without false reservations

MAXIMUM CLEARANCE (MC) - **MANUAL** DOOR

	REFOULEMENT A 90°	REFOULEMENT DROIT
REFOULEMENT MAXIMUM (RM)	LP - ECR +1450 mm	LP + 230 mm

MAX. CLEARANCE (MC) - MOTORISED DOOR **SOMMER WITHOUT WICKET DOOR (EXCEPT PRO+)**

175 ≤ RC ≤ 1,000 MM

	LP maxi							
175 ≤ ECR < 200	1995	2395	2795	2995	3595	3995	4395	5000
200 ≤ ECR < 300	2045	2445	2845	3045	3645	4045	4445	5000
300 ≤ ECR < 400	2145	2545	2945	3145	3745	4145	4545	5000
400 ≤ ECR < 500	2095	2495	2895	3095	3695	4095	4495	5000
500 ≤ ECR ≤ 585	2195	2595	2995	3195	3795	4195	4595	5000
585 < ECR ≤ 600	2080	2480	2880	3080	3680	4080	4480	5000
600 < ECR ≤ 800	2095	2495	2895	3095	3695	4095	4495	5000
800 < ECR ≤ 900	2170	2570	2970	3170	3770	4170	4570	5000
900 < ECR ≤ 1000	2195	2595	2995	3195	3795	4195	4595	5000
Refolements des Rails Sommer :	3265	3665	4065	4265	4865	5265	5665	6465

MAX. CLEARANCE (MC) - MOTORISED DOOR **SOMMER WITHOUT WICKET DOOR (PRO+)**

175 ≤ RC ≤ 1,000 MM

	LP maxi							EC mini	RL mini
175 ≤ ECR < 200	2275	2815	3370	3915	4465	5000	90	100	
200 ≤ ECR < 250	2300	2840	3395	3940	4490	5000			
250 ≤ ECR < 350	2280	2820	3375	3920	4470	5000			
350 ≤ ECR < 400	2330	2870	3425	3970	4520	5000			
400 ≤ ECR < 500	2230	2770	3320	3870	4420	4960			5000
500 ≤ ECR ≤ 585	2330	2870	3420	3970	4520	5000			
585 < ECR ≤ 600	2170	2710	3265	3810	4360	4905			5000
600 < ECR ≤ 800	2285	2825	3380	3925	4475	5000			
800 < ECR ≤ 900	2310	2850	3405	3950	4500	5000			
900 < ECR ≤ 1000	2260	2800	3350	3900	4450	5000			
*Refolements des Rails Sommer :	3355	3895	4450	4995	5545	6090	6640		
Course :	2750	3290	3840	4380	4940	5480	6035		

*Les refolements sont donnés en valeurs théoriques (pas de marge de sécurité)

RC > 1,000 MM

MOTEUR AU PLAFOND	MOTEUR AU LINTEAU	ECR mini	LP	Course	EC mini	Refolement maxi
110 ≤ RL < 260	260 ≤ RL ≤ 330	Sup ou = à 1001	1900 ≤ LP ≤ 2620	2750	90	1000 < ECR ≤ LP + 209 = LP - ECR + 800 LP + 209 < ECR < LP + 230 = LP - ECR + 1050
			2620 < LP ≤ 3160	3290		
			3160 < LP ≤ 3710	3840		
			3710 < LP ≤ 4260	4380		
			4260 < LP ≤ 4810	4940		
			4810 < LP ≤ 5000	5480		

MAX. CLEARANCE (MC) - MOTORISED DOOR **SOMMER WITH WICKET DOOR (EXCEPT PRO+)**

175 ≤ RC ≤ 1,200 MM

	LP maxi							
175 ≤ ECR < 200	1995	2395	2795	2995	3595	3995	4395	5000
200 ≤ ECR < 300	2045	2445	2845	3045	3645	4045	4445	5000
300 ≤ ECR < 400	2145	2545	2945	3145	3745	4145	4545	5000
400 ≤ ECR < 500	2095	2495	2895	3095	3695	4095	4495	5000
500 ≤ ECR ≤ 585	2195	2595	2995	3195	3795	4195	4595	5000
585 < ECR ≤ 600	2080	2480	2880	3080	3680	4080	4480	5000
600 < ECR ≤ 800	2095	2495	2895	3095	3695	4095	4495	5000
800 < ECR ≤ 900	2170	2570	2970	3170	3770	4170	4570	5000
900 < ECR ≤ 1000	2195	2595	2995	3195	3795	4195	4595	5000
1001 < ECR < 1100	2345	2745	3145	3345	3945	4345	4745	5000
1100 ≤ ECR < 1150	2375	2775	3175	3375	3975	4375	4775	5000
1150 ≤ ECR < 1200	2395	2795	3195	3395	3995	4395	4795	5000
Refolements des Rails Sommer :	3265	3665	4065	4265	4865	5265	5665	6465

RC > 1,200 MM

MOTEUR AU PLAFOND	MOTEUR AU LINTEAU	ECR mini	LP	Course	EC mini	Refolement maxi
RL 160 à 220	RL 260 à 330	1201	1900 à 2510	2600	90	1200 < ECR ≤ LP + 209 = LP - ECR + 800 LP + 209 < ECR < LP + 230 = LP - ECR + 1050
			2511 à 2910	3000		
			2911 à 3310	3400		
			3311 à 3510	3600		
			3511 à 4110	4200		
			4111 à 4510	4600		
			4511 à 4910	5000		
			4911 à 5000	5800		

INFO

- FOR HELP - See table - Sommer operator on a door without a wicket door
- - If the reservation on the clearance side is 450 mm and the maximum door width is 3,270 mm
=> the maximum clearance value is 4,865 mm

MAX. CLEARANCE (MC) - MOTORISED DOOR **SOMMER WITH WICKET DOOR (PRO+)**

175 ≤ RC ≤ 1,200 MM

	LP maxi							EC mini	RL mini
175 ≤ ECR < 200	2275	2815	3370	3915	4465	5000	90	100	
200 ≤ ECR < 250	2300	2840	3395	3940	4490	5000			
250 ≤ ECR < 350	2280	2820	3375	3920	4470	5000			
350 ≤ ECR < 400	2330	2870	3425	3970	4520	5000			
400 ≤ ECR < 500	2230	2770	3320	3870	4420	4960			5000
500 ≤ ECR ≤ 585	2330	2870	3420	3970	4520	5000			
585 < ECR ≤ 600	2170	2710	3265	3810	4360	4905			5000
600 < ECR ≤ 800	2285	2825	3380	3925	4475	5000			
800 < ECR ≤ 900	2310	2850	3405	3950	4500	5000			
900 < ECR ≤ 1000	2260	2800	3350	3900	4450	5000			
1001 < ECR < 1100	2270	2810	3370	3910	4460	5000			
1100 ≤ ECR < 1150	2295	2835	3390	3935	4485	5000			
1150 ≤ ECR < 1200	2320	2860	3415	3960	4510	5000			
*Refolements des Rails Sommer :	3355	3895	4450	4995	5545	6090	6640		
Course :	2750	3290	3840	4380	4940	5480	6035		

**Les refolements sont donnés en valeurs théoriques (pas de marge de sécurité)*

RC > 1,200 MM

MOTEUR AU PLAFOND	MOTEUR AU LINTEAU	ECR mini	LP	Course	EC mini	Refolement maxi
160 ≤ RL < 260	260 ≤ RL ≤ 330	Sup ou = à 1201	1900 ≤ LP ≤ 2620	2750	90	1200 < ECR ≤ LP + 209 = LP - ECR + 800 LP + 209 < ECR < LP + 230 = LP - ECR + 1050
			2620 < LP ≤ 3160	3290		
			3160 < LP ≤ 3710	3840		
			3710 < LP ≤ 4260	4380		
			4260 < LP ≤ 4810	4940		
			4810 < LP ≤ 5000	5480		

MAXIMUM CLEARANCE (MC) - MOTORISED DOOR **SOMFY WITHOUT WICKET DOOR**

175 ≤ RC ≤ 1,000 MM

	LP maxi			
175 ≤ ECR < 250	2060	2660	3660	4960
250 ≤ ECR < 325	2135	2735	3735	5000
325 ≤ ECR ≤ 585	2160	2760	3760	5000
585 < ECR < 750	1970	2570	3570	4870
750 ≤ ECR < 825	2110	2710	3710	5000
825 ≤ ECR ≤ 1000	2135	2735	3735	5000
Refolements Pro et Optimo	*3295	*3895	4895	6195
Refolements Compact	*3128	*3728	4728	6028
<i>Rails utilisés :</i>	2900	3500	4500	5800

*Les rails moteurs à courroie sont obligatoires

RC > 1,000 MM (CEILING-MOUNTED OPERATOR)

RL	EC mini	ECR	LP	Refolement maxi	RAIL
RL 160 à 220	Moteurs : Dexxo Pro ou Optimo 350mm tête à 90° 500mm tête Droite	ECR ≥ 1001	1900 à 2249	1000 < ECR ≤ LP + 209 = LP - ECR + 800 LP + 209 < ECR < LP + 230 = LP - ECR + 1050	*2900
		ECR + LP ≥ 3500	2250 à 2499		*3500
		ECR ≥ 1001	2500 à 2799		4500
		ECR + LP ≥ 4500	2800 à 3499		5800
		ECR ≥ 1001	3500 à 3799		
		ECR + LP ≥ 5800	3800 à 4799		
		ECR ≥ 1001	4800 à 5000		

*Les Rails moteurs peuvent-être à courroie ou à chaîne

MAXIMUM CLEARANCE (MC) - MOTORISED DOOR **SOMFY WITH WICKET DOOR**

175 ≤ RC ≤ 1000 MM

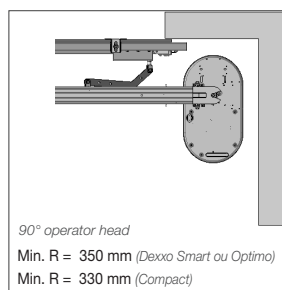
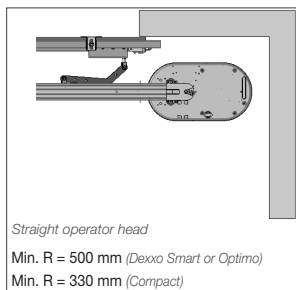
	LP maxi			
175 ≤ ECR < 250	2060	2660	3660	4960
250 ≤ ECR < 325	2135	2735	3735	5000
325 ≤ ECR ≤ 585	2160	2760	3760	5000
585 < ECR < 750	1970	2570	3570	4870
750 ≤ ECR < 825	2110	2710	3710	5000
825 ≤ ECR ≤ 1000	2135	2735	3735	5000
1000 < ECR ≤ 1200	2150	2750	3750	5000
Refolements Pro et Optimo	*3295	*3895	4895	6195
<i>Rails utilisés :</i>	2900	3500	4500	5800

*Les rails moteurs à courroie sont obligatoires

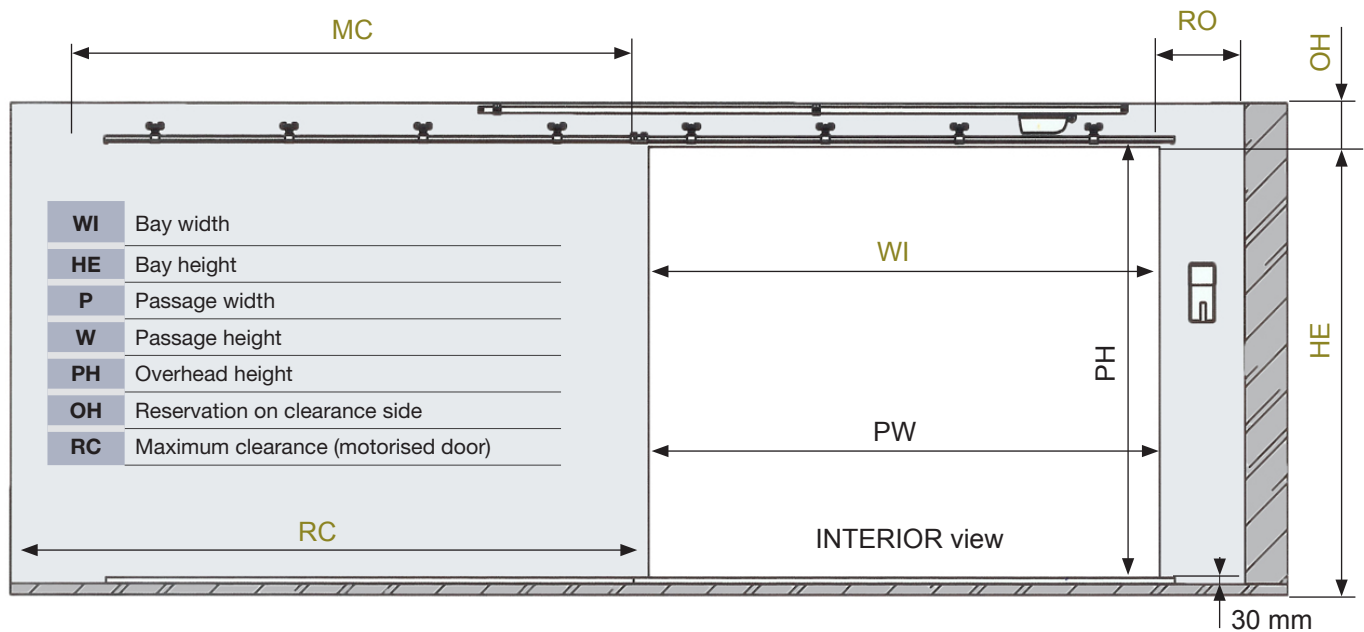
RC > 1,200 MM (CEILING-MOUNTED OPERATOR)

RL	EC mini	ECR	LP	Refolement maxi	RAIL
RL 160 à 220	Dexxo Pro ou Optimo 350mm tête à 90° 500mm tête Droite	ECR ≥ 1201	1900 à 2299	1200 < ECR ≤ LP + 209 = LP - ECR + 800 LP + 209 < ECR < LP + 230 = LP - ECR + 1050	*2900
		ECR + LP ≥ 4450	2300 à 2899		*3500
		ECR ≥ 1201	2900 à 3249		4500
		ECR + LP ≥ 5750	3250 à 3900		5800
		ECR ≥ 1201	3900 à 4549		
		ECR ≥ 1201	4550 à 5000		

*Les Rails moteurs peuvent-être à courroie ou à chaîne



RIGHT-HAND OPENING



	ALL SIDE-SLIDING DOORS EXCEPT MANUAL DOORS WITHOUT WICKET DOOR			MANUAL DOOR WITH WICKET DOOR
	CEILING-MOUNTED OPERATOR (SOMFY)	HEADER-MOUNTED OPERATOR (SOMMER)	MANUAL DOOR WITHOUT WICKET DOOR	
OVERHEAD HEIGHT (MIN. OH)	110 to 220 mm max.	260 to 330 mm max.	100 mm	100 mm
RESERVATION OPPOSITE CLEARANCE (MIN. RO)	90 to 500 depending on the operator		90 mm	90 mm
RESERVATION ON CLEARANCE SIDE (MIN. RC)	PW + 230 mm		PW + 230 mm	PW - 280 mm
MINIMUM PASSAGE HEIGHT (PH MIN.) IF WICKET DOOR	1,850 mm			
MINIMUM PASSAGE HEIGHT (PH MIN.) NO WICKET DOOR	1,800 mm			
MAXIMUM PASSAGE HEIGHT (PH MAX.)	3,000 mm			2,250 mm

INFO

- The dimensions **in green** are those we need to prepare a quote or order
- If the OH or LR or RR are not large enough, a false header or false reservations can be fitted

CAUTION

- Installation layouts are always illustrated from the inside.
- PW = WI: without false reservations

MAX. CLEARANCE (MC) - MOTORISED DOOR **SOMMER WITHOUT WICKET DOOR (EXCEPT PRO+)**

MOTEUR AU PLAFOND	MOTEUR AU LINTEAU	ECR mini	LP	Course	EC mini	Refoulement maxi
RL 110 à 220	RL 260 à 330	LP + 230	1900 à 2510	2600	90	LP + 230
			2511 à 2910	3000		
			2911 à 3310	3400		
			3311 à 3510	3600		
			3511 à 4110	4200		
			4111 à 4510	4600		
			4511 à 4910	5000		
			4911 à 5000	5800		

MAX. CLEARANCE (MC) - MOTORISED DOOR **SOMMER WITHOUT WICKET DOOR (PRO+)**

MOTEUR AU PLAFOND	MOTEUR AU LINTEAU	ECR mini	LP	Course	EC mini	Refolement maxi
110 ≤ RL < 260	260 ≤ RL ≤ 330	Sup ou = à LP + 230	1900 ≤ LP ≤ 2670	2750	90	LP + 230
			2670 < LP ≤ 3210	3290		
			3210 < LP ≤ 3760	3840		
			3760 < LP ≤ 4310	4380		
			4310 < LP ≤ 4860	4940		
			4860 < LP ≤ 5000	5480		
				6035		

MAX. CLEARANCE (MC) - MOTORISED DOOR **SOMMER WITH WICKET DOOR (EXCEPT PRO+)**

MOTEUR AU PLAFOND	MOTEUR AU LINTEAU	ECR mini	LP	Course	EC mini	Refolement maxi
RL 110 à 220	RL 260 à 330	LP + 230	1900 à 2510	2600	90	LP + 230
			2511 à 2910	3000		
			2911 à 3310	3400		
			3311 à 3510	3600		
			3511 à 4110	4200		
			4111 à 4510	4600		
			4511 à 4910	5000		
			4911 à 5000	5800		

MAX. CLEARANCE (MC) - MOTORISED DOOR **SOMMER WITH WICKET DOOR (PRO+)**

MOTEUR AU PLAFOND	MOTEUR AU LINTEAU	ECR mini	LP	Course	EC mini	Refolement maxi
110 ≤ RL < 260	260 ≤ RL ≤ 330	Sup ou = à LP + 230	1900 ≤ LP ≤ 2670	2750	90	LP + 230
			2670 < LP ≤ 3210	3290		
			3210 < LP ≤ 3760	3840		
			3760 < LP ≤ 4310	4380		
			4310 < LP ≤ 4860	4940		
			4860 < LP ≤ 5000	5480		
				6035		

MAXIMUM CLEARANCE (MC) - MOTORISED DOOR **SOMFY WITHOUT WICKET DOOR**
(CEILING-MOUNTED OPERATOR)

RL	ECR mini	LP	RAIL	EC mini	Refolement maxi
RL 110 à 220	LP + 230	1900 à 2450	*2900	90	LP + 230
		2451 à 3050	*3500		
		3051 à 4050	4500		
		4051 à 5000	5800		

*Les Rails moteurs peuvent-être à courroie ou à chaîne - Moteurs : Dexxo Pro ou Optimo

MAXIMUM CLEARANCE (MC) - MOTORISED DOOR **SOMFY WITH WICKET DOOR**
(CEILING-MOUNTED OPERATOR)

RL	ECR mini	LP	RAIL	EC mini	Refolement maxi
RL 110 à 220	LP + 230	1900 à 2450	*2900	90	LP + 230
		2451 à 3050	*3500		
		3051 à 4050	4500		
		4051 à 5000	5800		

*Les Rails moteurs peuvent-être à courroie ou à chaîne - Moteurs : Dexxo Pro ou Optimo

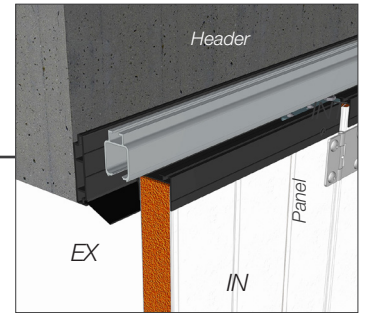
SEALING

INSULATION
PROTECTION
ELASTICITY
RESISTANCE

01 HEADER SEAL



Exterior view

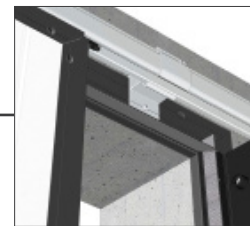


Interior view
Lip seal (header)

02 VERTICAL SEAL



Clearance side
Lip seal or brush seal depending
on reservation dimensions

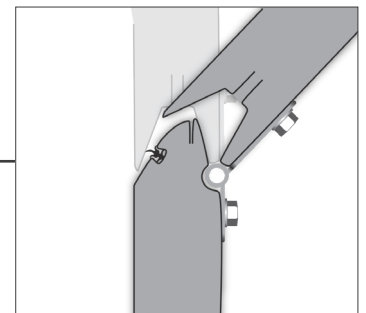


Side opposite clearance
without wicket door
Brush seal



Side opposite clearance
with wicket door
Brush seal

03 JOINT SEAL PANEL



Finger guard joint

04 BOTTOM SEAL



Brush seal
(on exterior at bottom of each panel)

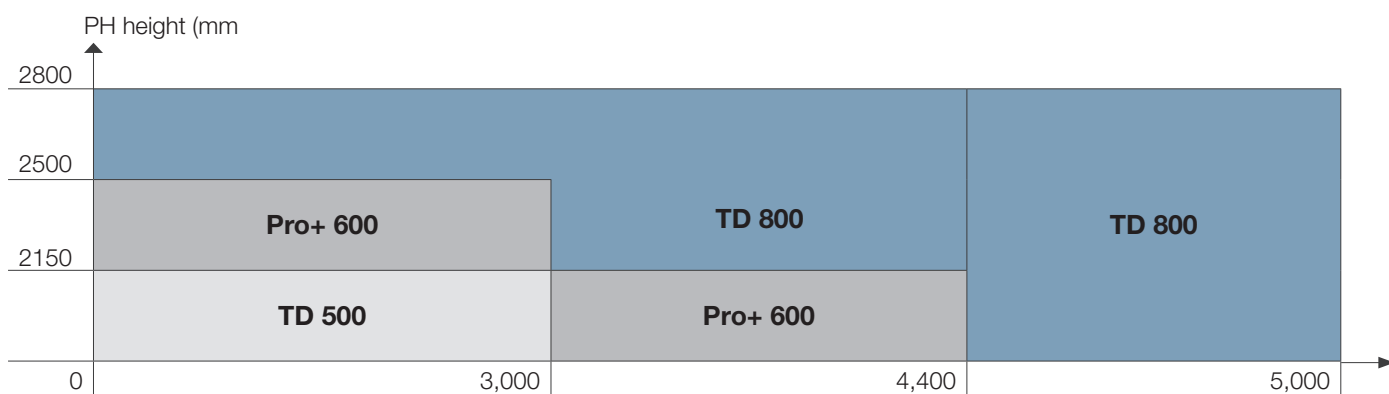
TYPES OF OPERATION

MANUAL OPERATION

- Max. dimensions: 5,000 x 3,000 mm
- Operator: none, manual pull

MOTORISED OPERATION: SELECTION OF OPERATORS

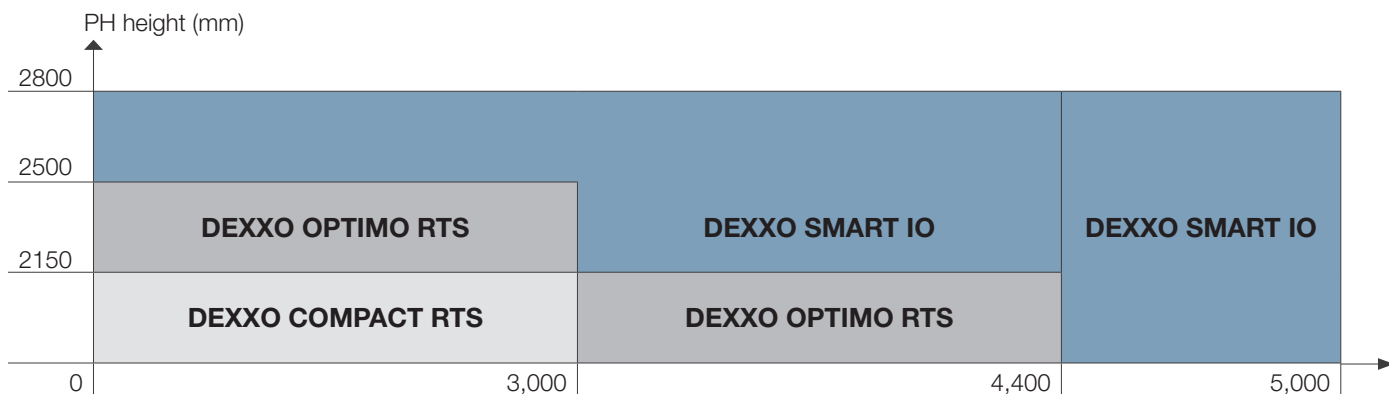
SOMMER OPERATOR






CAUTION

- All our doors are CE marked, in compliance with designated standard NF BS EN 13241:2003+A2:2016. They can be operated manually or motorised. Fitting a motorised operator to a manually operated door is the sole responsibility of the installer.

SOMFY OPERATOR





OPERATORS

	SOMMER OPERATOR		
	TD 500	Pro+ 600	TD 800
			
Voltage	230 V	230 V	230 V
Tensile and compressive force	500 N	600 N	800 N
Maximum speed	150 mm/s	210 mm/s	130 mm/s
Standby power consumption	≈ 7 W	≈ 1 W	≈ 2 W
Number of cycles per day	20	20	20
Emergency release	Yes	Yes	Yes
Slow-down at end of opening/closing	Yes	Yes	Yes
Partial door opening	Yes	Yes	Yes
Radio frequency	868 MHz	868 MHz	868 MHz
Number of remote controls included	2	2	2

* - 9 remote controls if one-way control: no feedback (intelligent operator).
 - Unlimited if two-way control: with feedback (intelligent transmitter).

** Not compatible motorised doors with wicket door.

	SOMFY OPERATOR		
	Dexxo Compact Rts	Dexxo Optimo Rts	Dexxo Smart IO 800*
			
Voltage	230 V	230 V	230 V
Tensile and compressive force	600 N	650 N (at start) 800 N (peak)	650 N (at start) 800 N (peak)
Maximum speed	140 mm /sec	140 mm /sec	140 mm /sec
Standby power consumption	≈ 4 W	≈ 4 W	≈ 5 W
Number of cycles per day	20	20	20
Emergency release	Yes	Yes	Yes
Slow-down at end of opening/closing	Yes	Yes	Yes
Partial door opening	No	Yes	Yes
Radio frequency	433.42 MHz	433.42 MHz	868 MHz
Number of remote controls included	2	2	2

OPERATING MODES

PULSE OPERATION (TRAINED USERS)





In pulse operation mode, the user is required to perform a brief action on the controller which triggers the movement of the shutter: open, stop or close.

Necessary safety devices:

Our operators are equipped with electronic systems for measuring force values, to allow automatic control in order to comply with the maximum lifting and crushing forces required under standard NF BS EN 13241:2003+A2:2016. No additional safety devices need to be fitted on the door if it is not in a public area and if the door is in sight when operated. If a door is in a public area or operated out of sight, it must be fitted with 2 mandatory sets of cells.

CONTROL ACCESSORIES			
SOMMER			
Remote control 	<ul style="list-style-type: none"> Pearl 4-function transmitter: <ul style="list-style-type: none"> - as standard - frequency 868 MHz - dimensions: 79 x 26 x 13 mm 	Radio fingerprint reader 	<ul style="list-style-type: none"> Fingerprint reader: <ul style="list-style-type: none"> - frequency 868 MHz - dimensions: 149 x 69 x 45 mm - records up to 80 user fingerprints - records up to 9 administrator fingerprints - 4-channel programming
Slider radio remote control 	<ul style="list-style-type: none"> 4-function transmitter: <ul style="list-style-type: none"> - as an option - frequency 868 MHz - dimensions: 55 x 30 x 14 mm - 4 radio controls - except Pro+ 	Key pad 	<ul style="list-style-type: none"> Wireless key pad: <ul style="list-style-type: none"> - frequency 868 MHz - dimensions: 147 x 48 x 30 mm - aluminum support - illuminated buttons
Remote control 	<ul style="list-style-type: none"> Pearl Status 3-channel transmitter: <ul style="list-style-type: none"> - with information feedback - optional on Pro+ 600 operator - 3 channels - dimensions: 79 x 26 x 13 mm - frequency 868 MHz 	Remote control 	<ul style="list-style-type: none"> Pearl Twin, 2 channels: <ul style="list-style-type: none"> - radio - 2 channels - optional on Pro+ 600 operator - dimensions: 79 x 26 x 13 mm - frequency 868 MHz
Radio button box 	<ul style="list-style-type: none"> Wall-mounted button box: <ul style="list-style-type: none"> - radio - 3 channels - dimensions: 85 x 80 x 14 mm - frequency 868 MHz 	<div style="background-color: #f0f0f0; padding: 10px;"> <p>SOMMER OPERATOR INFO</p> <ul style="list-style-type: none"> • A pulse button is integrated into the control box. • The receivers in the control box are equipped with a "Rolling code" system to protect against radio hacking. </div>	
SOMFY			
Keytis RTS remote control 	<ul style="list-style-type: none"> Compatible with Dexxo Compact and Optimo operators: <ul style="list-style-type: none"> - frequency 433.42 MHz - dimensions: 69 x 41.5 x 13.7 mm 	Key pad 	<ul style="list-style-type: none"> Flush-mounted RTS key pad: <ul style="list-style-type: none"> - frequency 433.33 MHz - dimensions: 120 x 70 x 30 mm - IP 55 - metal finish
IO remote control 	<ul style="list-style-type: none"> Compatible with Dexxo Smart IO 800 operator: <ul style="list-style-type: none"> - frequency 868 MHz - dimensions: 59 x 35 x 14 mm 	Key pad 	<ul style="list-style-type: none"> Wall-mounted RTS key pad: <ul style="list-style-type: none"> - frequency 433.33 Mhz - dimensions: 120 x 70 x 30 mm - IP 55 - metal finish

COMPATIBLE WITH ALL OPERATORS





<p>Tyxia Delta Dore remote control</p> 	<ul style="list-style-type: none"> Compatible with operators with a Delta Dore receiver: <ul style="list-style-type: none"> - frequency: 868 MHz - dimensions: 42 x 65 x 8 mm 	<p>BCE2 - BCA1</p> 	<ul style="list-style-type: none"> Key switch box: <ul style="list-style-type: none"> <u>Flush-mounted</u>: Finger plate - dimensions: 90 x 100 mm <u>Wall-mounted</u> - dimensions: 73 x 73 x 78 mm
<p>Tyxia 4620 Delta Dore receiver</p> 	<ul style="list-style-type: none"> Dry-contact pulse receiver: <ul style="list-style-type: none"> - dimensions: 45 x 36 x 23 mm - 230V 	<p>Rollia Delta Dore remote control</p> 	<ul style="list-style-type: none"> Compatible with operators with a Delta Dore receiver: <ul style="list-style-type: none"> - frequency: 868 MHz - dimensions: 45 x 125 x 15 mm

OPTIONS

MOTORIZATION OPTIONS

MOTORIZATION OPTIONS


SOMMER

<p>Receiver</p> 	<ul style="list-style-type: none"> 2/4-function receiver: <ul style="list-style-type: none"> - frequency 868 MHz - dimensions: 125 x 125 x 60 mm - IP 65 	<p>Antenna</p> 	<ul style="list-style-type: none"> - Dielectric rod antenna - Frequency 868 MHz - Cable length ≈ 10 m
<p>Flashing light</p> 	<ul style="list-style-type: none"> Flashing light (works only with the SV 568 box): <ul style="list-style-type: none"> - dimensions: 123 x 107 mm - frequency 500 MHz - IP 65 	<p>SV 568 control box</p> 	<ul style="list-style-type: none"> - Dimensions: 110 x 110 x 55 mm - Connects orange-flashing illumination lights (except wicket doors)

SOMFY

<p>Receiver</p> 	<ul style="list-style-type: none"> Somfy RTS receiver: <ul style="list-style-type: none"> - frequency 433.42 MHz - dimensions: 110 x 110 x 40 mm - IP 55 	<p>RTS antenna</p> 	<ul style="list-style-type: none"> - Frequency 433.42 MHz - Cable length ≈ 8 m - Cable diameter: 5 mm
<p>Battery</p> 	<ul style="list-style-type: none"> - Power: 9.6 V - Battery capacity: 1,600 mAh 		

COMPATIBLE WITH ALL OPERATORS

<p>Release lock</p> 	<ul style="list-style-type: none"> External operator release mechanism Manual opening in case of power failure 		
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WICKET DOOR OPTION

LA TOULOUSAINNE wicket doors are designed and manufactured to ensure easy pedestrian access through all side-sliding doors. This wicket door complies with designated standard NF BS EN 13241:2003+A2:2016. It always opens on the clearance side of the door and is always positioned on the panel opposite the opening. The aluminum frame and the threshold must create a smooth, clean and level structure on which the entire door will rest.

DIMENSION LIMITS OF THE SIDE-SLIDING DOOR WITH WICKET DOOR:

		Wicket door on manual door		Wicket door on motorised door	
	RC Min. width reservation on clearance	300		175	
	RO Min. width reservation on opposite	90		90	
	OH Min. overhead height ⁽²⁾	from 110 to 330 depending on the motorization configuration			
	C Max. clearance	Opening to 90° WI - RC + 1,360 max.	Right-hand opening WI - 280	Opening to 90° WI - RC + 1,450 max.	Right-hand opening BW + 230
	Locking system	latch or lock as option		optional operator or latch	
	Side-sliding with frame ⁽¹⁾				
	Min.	Max.			
Bay width WI	1,900	5,000			
Bay height HE	1,850	3,000 (motorised) 2,250 (manual)			

WICKET DOOR WIDTH: Positioned on the side opposite the clearance

		All finishes (except with Raised Panels, Single-Grooved and Visio)			All finishes (except with Raised Panels, Single-Grooved and Visio)		
MANUAL WICKET DOOR	Wicket door width	500 to 572		MOTORISED WICKET DOOR	Wicket door width	500 to 572	
	Wicket door passage height (in relation to ground)	from 1,960 to 2,250			Wicket door passage height (in relation to ground)	from 1,960 to 3,000*	

*PH ≤ 2,250 mm manual.

CAUTION

- A wicket door is not considered an emergency exit
- On manual doors, the wicket door must be open to operate the door
- On motorised doors, the wicket door must be closed to operate the door
- It must never be used in a public area
- A manual door with a wicket door cannot be retrofitted with an operator

Backstop (wicket gate on manual door)

This backstop offers an additional point of closure when the wicket door is locked and the latch is not engaged.

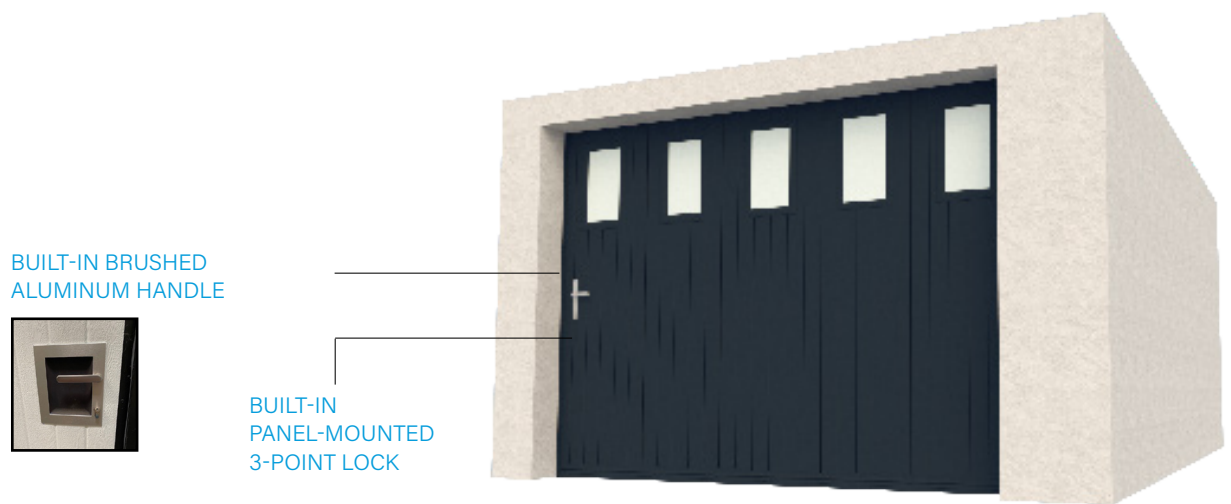
The new fixed and mobile stops can be used on all side-sliding doors with frames.



(1) Except raised Panels.

(2) If there is not sufficient overhead height (OH) and/or the RL and/or RR (left and right reservations) are not large enough, we may suggest a matching false header and/or false reservations for the door.

PARTS LIST



WINDOW OPTIONS

WINDOWS - VERTICAL POSITIONING

- 1 single row of windows (opening side or clearance side)
- Option to reduce number of windows

Number of windows

(door with or without frame)

PH Passage height	Alunox®	Round Plexiglas	Rectangular
PH ≤ 2,750	3	4	3
2,570 < PH	4	4	4

Dimensions in mm

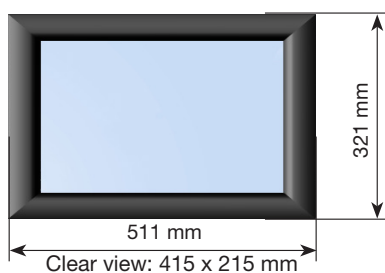
WINDOWS - HORIZONTAL POSITIONING

- 1 single window per panel
- 1 single row of windows
- Locks not compatible with Line window/decoration 2

TYPE OF WINDOW

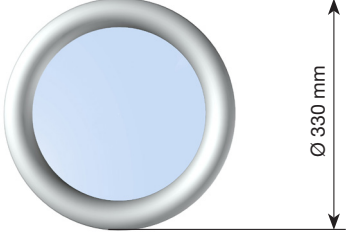
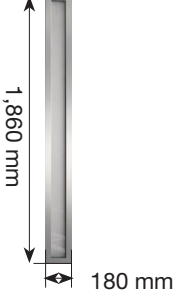
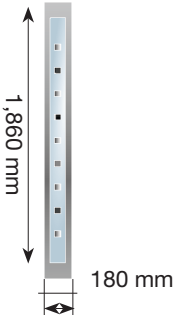
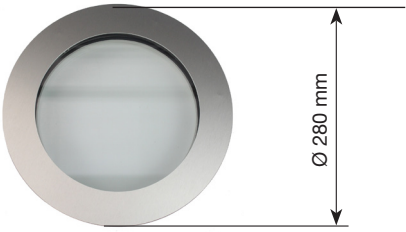

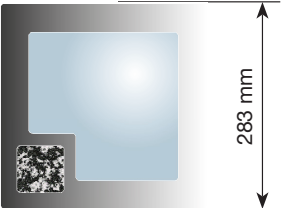
CAUTION

- Locks not compatible with a vertical row of windows
- Vertical windows not compatible with the wicket door
- It is not possible to position windows on the end panels of some sizes of door with wicket door







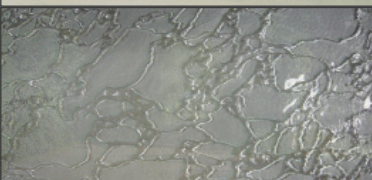




RECTANGULAR WINDOW

- Double-wall glazing
- Plexiglas glazing
- Exterior frame in same color as door
- Window position: horizontal/vertical

 <p>Clear view: Ø 225 mm</p>	<p>ROUND WINDOW</p> <p>Not compatible with shutters with raised panels</p> <ul style="list-style-type: none"> - Double-wall glazing - Plexiglas glazing - Exterior frame in same color as door - Window position: horizontal/vertical
 <p>Clear view: 1,780 x 100 mm</p>	<p>ALUNOX LINE WINDOW</p> <p>Not compatible with shutters with raised panels</p> <ul style="list-style-type: none"> - Frosted triple-glazed: 33.2 / 12/4 / 12/4 - Exterior frame: laminated, anodized aluminum (2 mm thick) - Brushed effect achieved by anodizing - Corrosion- and scratch-resistant - 1 window / panel in horizontal position - Door dimensions: PH (min.) = 2,095 mm / PH (max.) = 3,000 mm PW (min.) = 1,900 mm / PW max. = 5,000 mm
 <p>Clear view: 1,780 x 100 mm</p>	<p>ALUNOX WINDOW DECORATION 2</p> <p>Not compatible with shutters with raised panels</p> <ul style="list-style-type: none"> - Frosted PMMA double-glazed 8 x 24 x 8 - Exterior frame: laminated, anodized aluminum (2 mm thick) - Brushed effect achieved by anodizing - Corrosion- and scratch-resistant - 1 window / panel in horizontal position - Door dimensions: PH (min.) = 2,095 mm / PH (max.) = 3,000 mm PW (min.) = 1,900 mm / PW max. = 5,000 mm
 <p>Clear view: Ø 235 mm</p>	<p>ROUND ALUNOX WINDOW</p> <p>Not compatible with shutters with raised panels</p> <ul style="list-style-type: none"> - Double-glazed: 2 x 3 mm thick glass panes with intermediate lamination: 33.2 - 16/4 - Exterior frame: laminated, anodized aluminum (2 mm thick) - Brushed effect achieved by anodizing - Corrosion- and scratch-resistant - Window position: horizontal/vertical
 <p>Clear view: 208 x 208 mm</p>	<p>SQUARE ALUNOX WINDOW</p> <p>Not compatible with shutters with raised panels</p> <ul style="list-style-type: none"> - Double-glazed: 2 x 3 mm thick glass panes with intermediate lamination: 33.2 - 16/4 - Exterior frame: laminated, anodized aluminum (2 mm thick) - Brushed effect achieved by anodizing - Corrosion- and scratch-resistant - Window position: horizontal/vertical
 <p>Clear view: 208 x 208 mm</p>	<p>ALUNOX WINDOW DECORATION 1</p> <p>Not compatible with shutters with raised panels</p> <ul style="list-style-type: none"> - Frosted PMMA double-glazed 8 x 24 x 8 - Exterior frame: laminated, anodized aluminum (2 mm thick) - Brushed effect achieved by anodizing - Corrosion- and scratch-resistant - Window position: horizontal/vertical

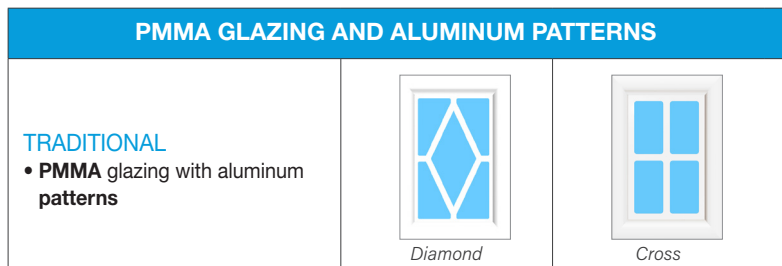
GLAZING OPTIONS

		RECTANGULAR WINDOW	ROUND WINDOW	ALUNOX WINDOW ROUND - SQUARE	ALUNOX WINDOW LINE - DECORATION 2
	TRANSPARENT GLAZING • PMMA* (int.-ext.) - Th. 3 mm and 3 mm	√	√		
	TRANSPARENT GLAZING • Double-glazed (int.-ext.) Th. window block = 21 mm (including gap) => Ref. 33/2** - 16 - 4	√		√	√
	FROSTED GLAZING • Double-glazed (int.-ext.) Th. window block = 21 mm (including gap) => Ref. 33/2** - 16 - 4	√		√	√
	RANDOM GRANITE GLAZING • PMMA* (int.-ext.) - Th. 3 mm and 3 mm		√		
	GRANITE GLAZING • PMMA* (int.-ext.) - Th. 3 mm and 3 mm	√			
	SQUARE MASTER • Double-glazed (int.-ext.) Th. window block = 21 mm (including gap) => Ref. 33/2** - 16 - 4	√			
	DELTA MATTE • Double-glazed (int.-ext.) Th. window block = 21 mm (including gap) => Ref. 33/2** - 16 - 4	√			
	TRANSPARENT GLAZING + Brass cross (included in air gap) • Double-glazed (int.-ext.) Th. window block = 21 mm (including gap) => Ref. 33/2** - 16 - 4	√			
	OPAL GLAZING + Brass cross (included in air gap) • Double-glazed (int.-ext.) Th. window block = 21 mm (including gap) => Ref. 33/2** - 16 - 4	√			

*Plexiglas® or PMMA is a UV-resistant material with excellent light transmission properties.

**Double-glazed glass with 2 security films on the inside.

PATTERN OPTIONS



INFO

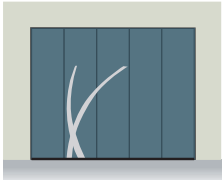
- The exterior of the pattern will match the color of the door
- The patterns are created from aluminum, for greater sunlight and UV resistance

ALUNOX PATTERNS

Alunox patterns: thickness 2 mm - horizontal pinning.

Finish: 0.5 mm 45° chamfer on the outside of each pattern.

All patterns have rounded corners (to different degrees depending on the pattern).

ALUMINUM PATTERNS		
PATTERNS	<p>ALOÉ</p> <p>PW passage width:</p> <ul style="list-style-type: none"> - PW min. = 1,900 mm - PW max. = 4,400 mm <p>PH passage height:</p> <ul style="list-style-type: none"> - PH min. = 1,800 mm - PH max. = 2,800 mm <p>Pattern position:</p> <ul style="list-style-type: none"> - panel on clearance side - 2nd intermediate panel 	 <p><i>Aloé</i></p>

INFO

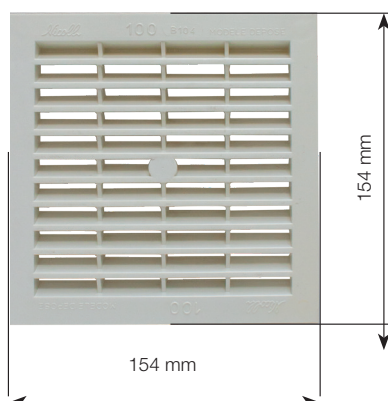
- Compatible with plain shutters, smooth or textured finish

ADDITIONAL OPTIONS

CHOICE OF RAL

Doors can be customized by choosing a **RAL** from the **180** in the range (more details p.12).

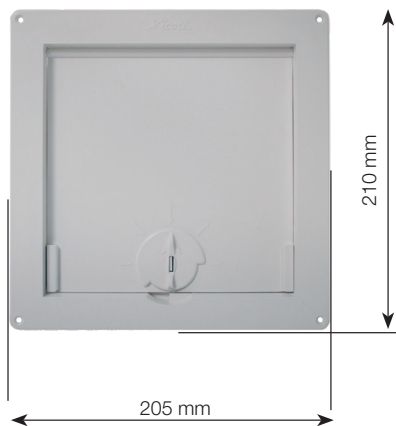
VENTILATION GRILLE



- For all shutters except single-grooved
- Dimensions: 154 mm x 154 mm
- Air flow: 100 cm³
- Lacquered in same color as door
- Horizontal positioning; single row on bottom panel

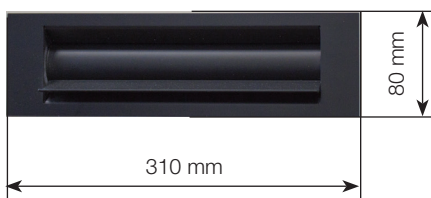
	NUMBER OF GRILLES
$1,900 \text{ mm} \leq \text{PW} \leq 2,400 \text{ mm}$	4
$2,400 \text{ mm} < \text{PW} \leq 2,880 \text{ mm}$	5
$2,880 \text{ mm} < \text{PW} \leq 3,620 \text{ mm}$	6
$3,620 \text{ mm} < \text{PW} \leq 3,900 \text{ mm}$	7
$3,900 \text{ mm} < \text{PW} \leq 4,400 \text{ mm}$	8

PET DOOR



- For all shutters except single-grooved and with raised panels
- Dimensions: 205 mm x 210 mm
- Color: white
- Locks in entry, exit or entry/exit position
- Position: 2nd panel on clearance side

LETTER BOX



- For all shutters
- Dimensions: 310 mm x 80 mm
- Color: black
- Two aluminum shutters
- No mail catcher
- Position: 2nd panel clearance side

LOCK

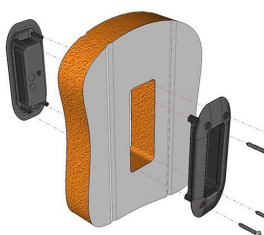
- Option to order a built-in 3-point lock with hooks instead of the latch when placing the initial order

LATCH



- Lower latch for manual door or optional for motorised door
- Upper latch available for all doors unless the operator is on the ceiling or header. (PH max.: 2,250 mm)

PLASTIC HANDLE



- Optional on motorised doors

FALSE HEADERS AND FALSE RESERVATIONS (CLADDING)

- If the overhead height is insufficient, a false cladding header will be required.
- If the reservation(s) is/are insufficient, one or two false cladding reservation(s) will be required.
- Max. height for false headers = 200 mm and width of false reservations = 200 mm.

FALSE HEADERS AND FALSE RESERVATIONS ≤ 200 MM

6 aluminum tube dimensions, lacquered white or the same color as the door.

- Various dimensions:
 - 40 x 40 mm
 - 60 x 40 mm
 - 80 x 40 mm
 - 100 x 40 mm
 - 150 x 40 mm
 - 200 x 40 mm.
- If the dimensions are different from those of standard tubes, we use the dimensions of the upper tube for door calculations.

INFO

- False headers and false reservations are lacquered to match the color of the door:
 - for a Medium Oak door, they will be lacquered in RAL 8003

SUMMARY TABLE

	PLAIN	HIGH GROOVE	GROOVED	MICRO-GROOVED
LETTER BOX	√	√	√	√
FALSE HEADERS/RESERVATIONS	√	√	√	√
VENTILATION GRILLES	√	√	√	√
ALUNOX WINDOWS	√	√	√	√
RECTANGULAR WINDOWS	√	√	√	√
ROUND WINDOWS	√	√	√	√
CHOICE OF RAL	√	√	√	√
PET DOOR	√	√	√	√
LOCK	√	√	√	√
WEATHER SEAL	√	√	√	√
LATCH	√	√	√	√
PLASTIC HANDLE	√	√	√	√

IN PICTURES



Grooved shutter - Wood-grain finish - White



Grooved wood-grained door with optional lacquering



Smooth shutter - Smooth finish - Rectangular windows
Letter box option



Smooth, plain door with vertical Alunox windows



Smooth, plain side-sliding door with Aloé pattern



Plain shutter - Wood-grain finish - Granite finish rectangular windows

IN PICTURES



Grooved wood-grained door with wicket door and optional windows with diamond pattern



Grooved, wood-grained door with wicket door



Smooth, plain door with wicket door and optional horizontal square Alunox windows with optional lacquering



Smooth, plain door with wicket door and optional vertical square Alunox windows with optional lacquering



Smooth, plain, side-sliding door with wicket door and optional lacquering

ROLL-UP DOORS

GROOVED SHUTTER	106
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CONTENTS



ROLL-UP DOORS WITH INSULATED SLATS

Slat / Aluminum and polyurethane foam
 Exterior finish / Powder coating and anti-corrosion treatment
 Slat pitch / 77 mm
 Thickness / 19 mm

GROOVED SHUTTER

SMOOTH FINISH



Available colors*



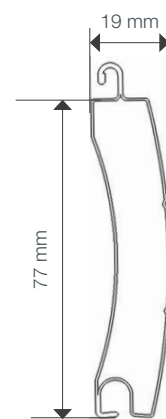
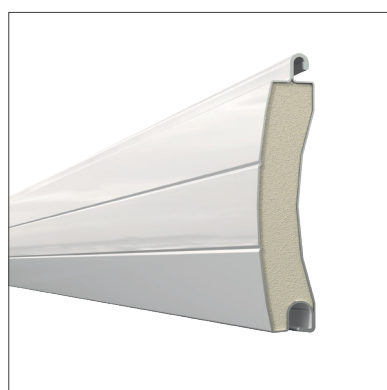
* Style and color of slats are the same on both sides of the shutter: interior and exterior

DESCRIPTION

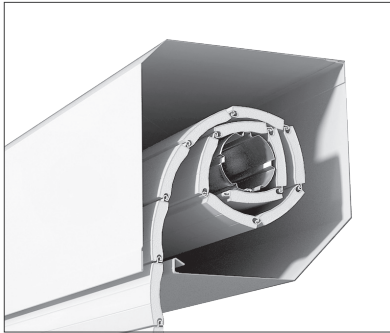
SHUTTER WITH ALUMINUM SLATS



- Double-sided PX75 insulated slat
- Dimensions: 77 mm x 19 mm
- 19 mm aluminum with polyurethane foam
- Sheet metal thickness: 0.46 mm
- Weight: 4.8 kg/m²
- Powder coating and anti-corrosion treatment
- Thermal resistance: U = 5.8 W/m²K
- Integrated side locking (crimped end-piece)
- Shutter mounted, limit-switches set (depending on dimensions)



HOUSING



- In aluminum sheet metal
- Fixed console
- Housing with beveled side: 300 x 300 mm (+ 50 mm for the end slat protruding from the housing)
- Console-mounted aluminum connecting lugs

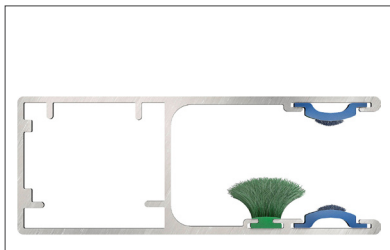
SHAFT



Anti-fall guard

- Diameter:
 - 80 mm
 - 56 mm with fixed console, for dimensions from W 3,000 mm x H 2,200 mm (bay gap)
- Shaft-mounted operator
- Anti-fall guard and associated tandem
- Automatic locking device (ALD) with associated bushings, to secure the shutter to the shaft, improve rolling and prevent the shutter from lifting
- Standard emergency exit:
 - under housing (internal rolling)
 - on the rear of the housing (external rolling) => fixed console

GUIDING RAILS

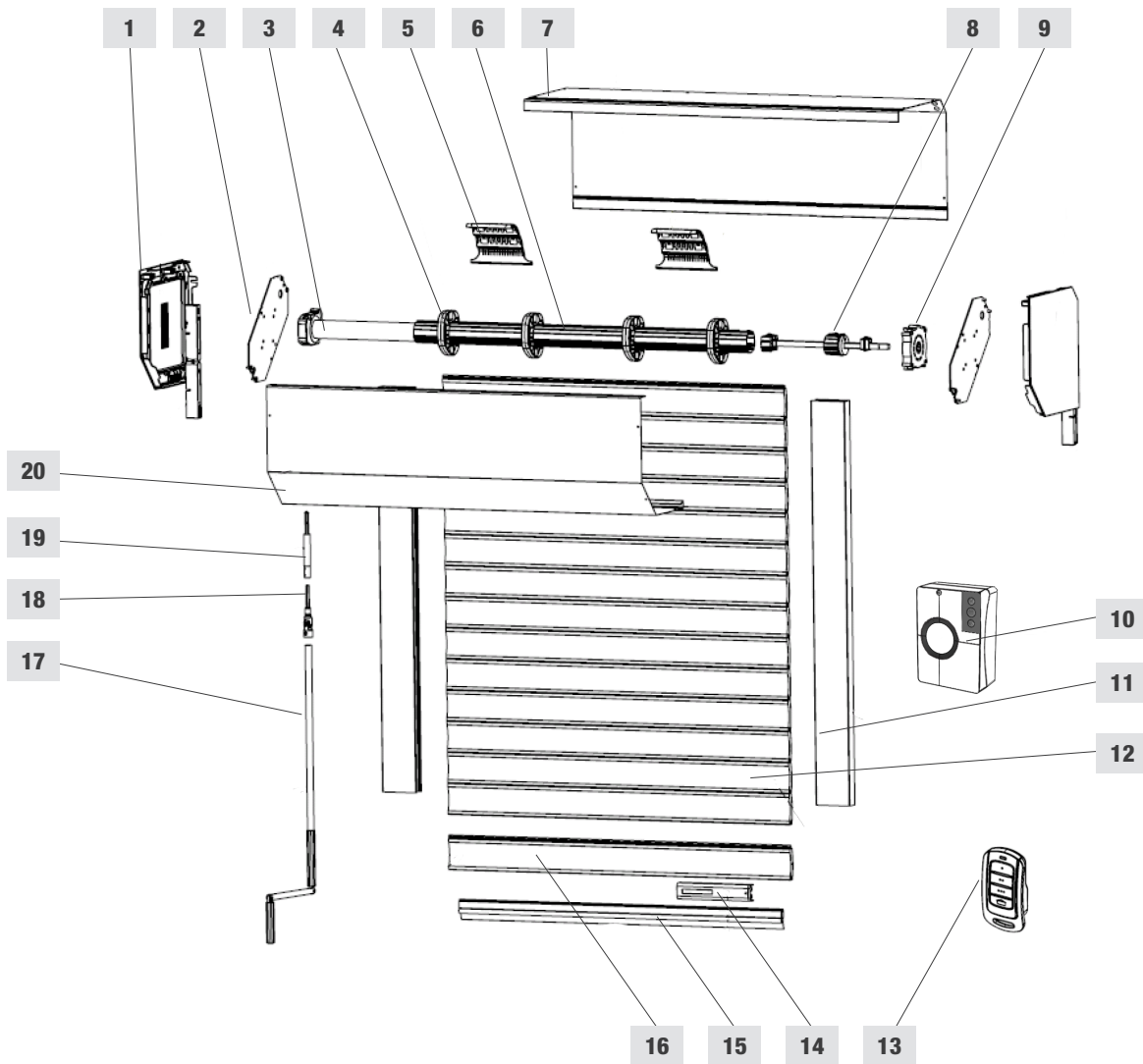


- Extruded aluminum profile
- Bi-material seal (silent opening and closing guaranteed)
- Brush seal (airtight)
- 2 guiding rail sizes:
 - C90 guiding rail if $PW \leq 3,100$ mm (thickness 2 mm)
 - C145 guiding rail if $3,100 < PW \leq 3,700$ mm (thickness 3 mm)

C90 guiding rail		BAY VOID WIDTH (PW)											
		2,000	2,100	2,300	2,500	2,700	2,900	3,000	3,100	3,300	3,500	3,700	
BAY VOID HEIGHT (PH)	1,800	C90 guiding rail (90 x 34 mm)									C145 guiding rail (145 x 41 mm)		
	2,200												
	2,400												
	2,600												
	2,800												
	3,000												

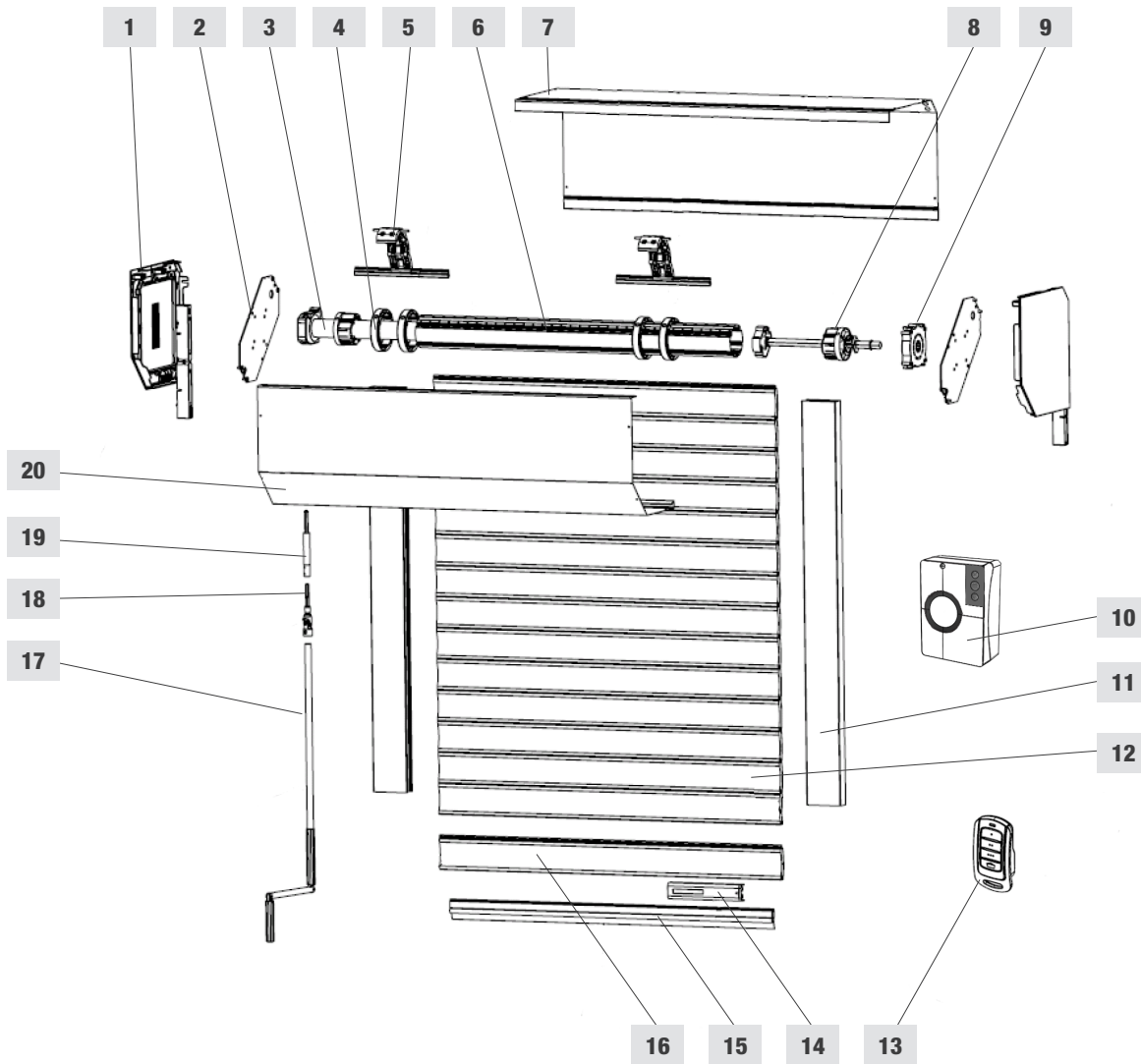
PARTS LIST

RADIO ANTI-CRUSH SAFETY DEVICE / FIXED HANGING BRACKET - 56 MM SHAFT



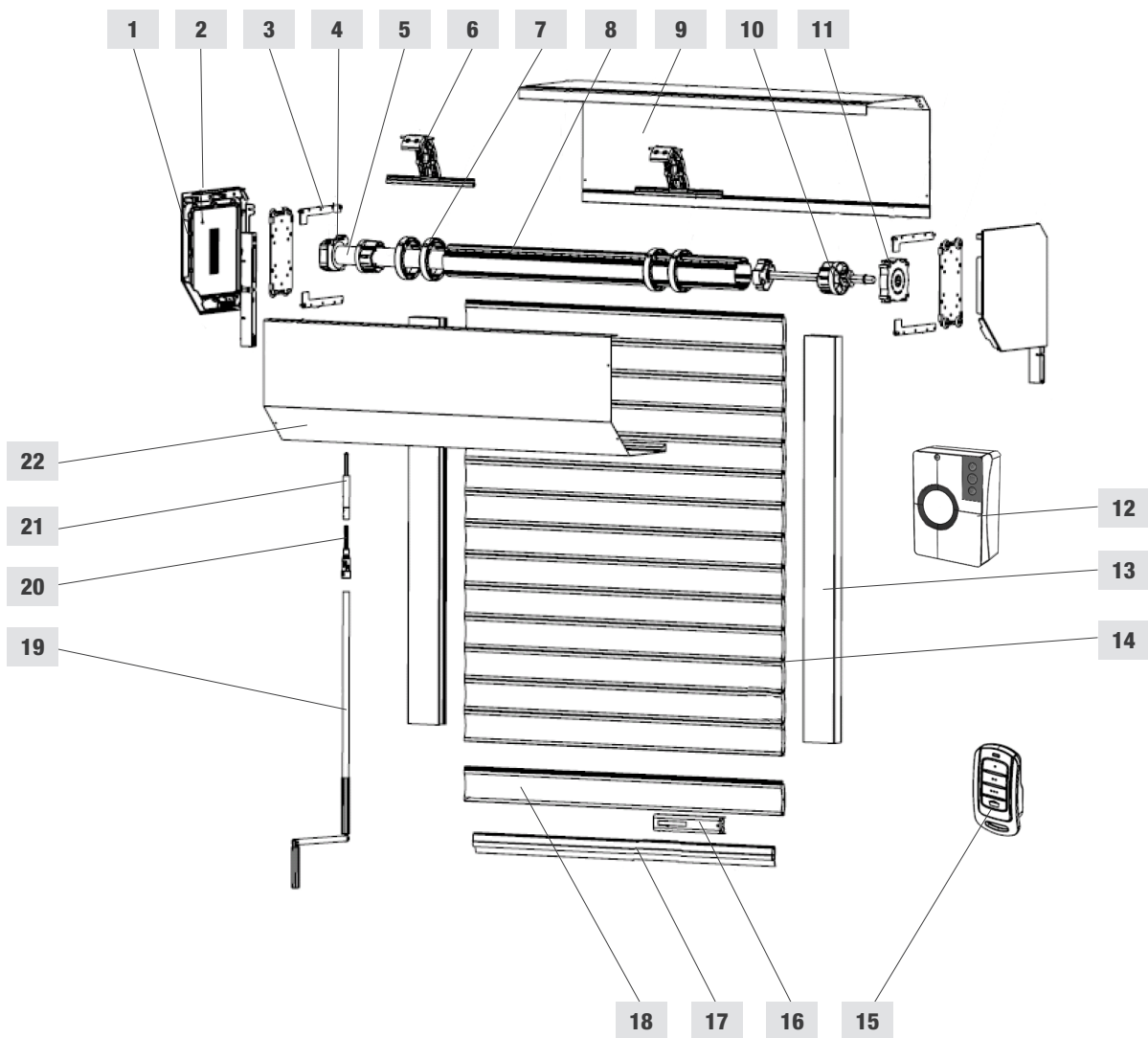
- | | | | |
|----|-----------------------------------|----|--------------------------|
| 1 | Hanging bracket + connecting lugs | 11 | C90 guiding rail |
| 2 | Fixed hanging bracket plate | 12 | Shutter with PX75 slat |
| 3 | Operator with emergency system | 13 | 4-channel remote control |
| 4 | Brushing for 56 MM shaft | 14 | Anti-crush safety box |
| 5 | 4-part ALD | 15 | End slat seal |
| 6 | Shaft diameter 56 mm | 16 | End slat |
| 7 | HC sheet metal (top) | 17 | Crank output no. 1 |
| 8 | Square 13 mm tandem 56 mm shaft | 18 | Single gimbal |
| 9 | Anti-fall guard | 19 | Hidden emergency exit |
| 10 | Control box | 20 | AB sheet metal (front) |

RADIO ANTI-CRUSH SAFETY DEVICE / FIXED CONSOLE - 80 MM SHAFT



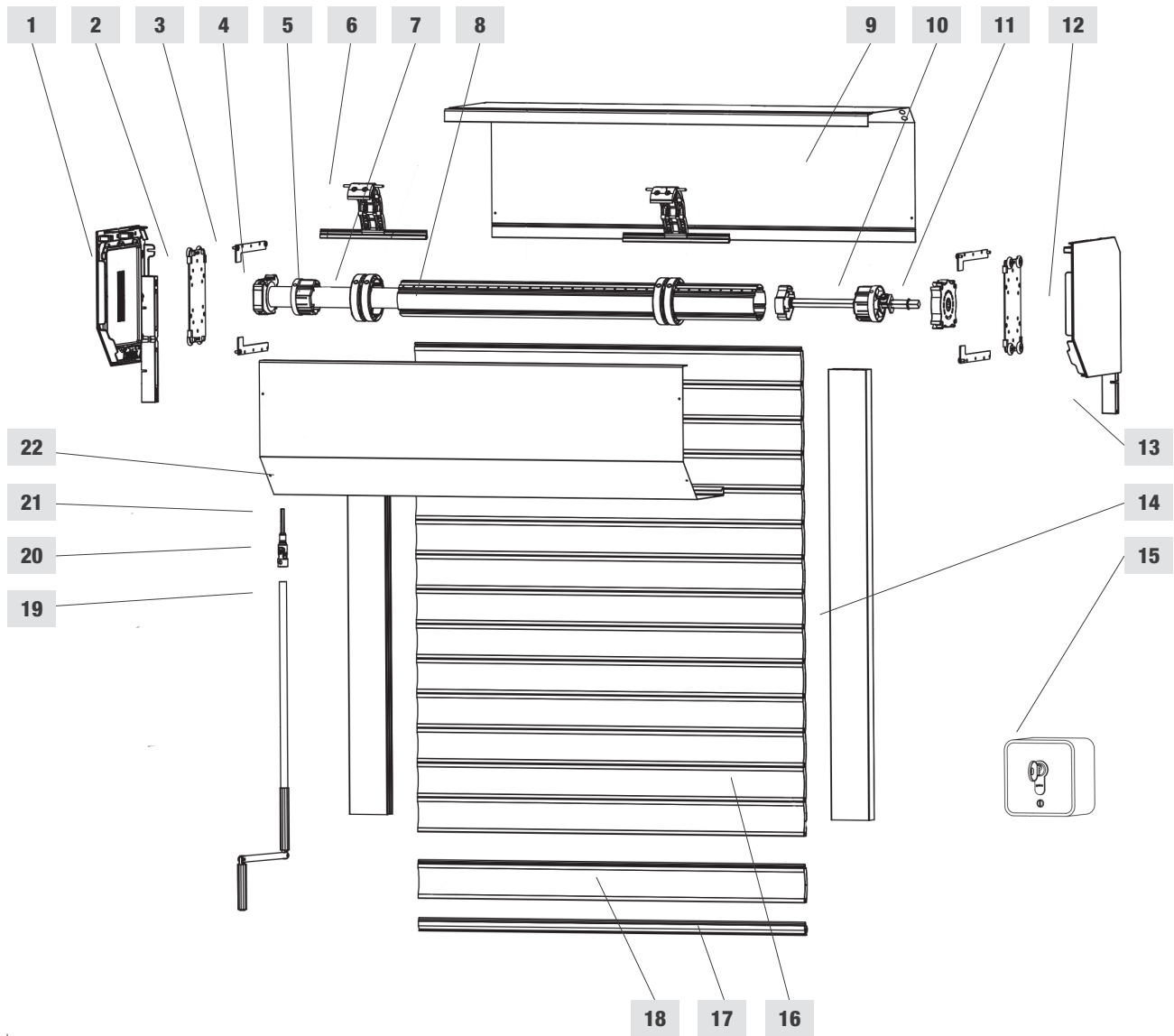
- | | | | |
|----|---------------------------------|----|--------------------------|
| 1 | Console + connecting lugs | 11 | C90/C145 guiding rail |
| 2 | Fixed console plate | 12 | Shutter with PX75 slat |
| 3 | Operator with emergency system | 13 | 4-channel remote control |
| 4 | Bushing for ALD | 14 | Anti-crush safety box |
| 5 | ALD | 15 | End slat seal |
| 6 | 80 mm diameter shaft | 16 | End slat |
| 7 | HC sheet metal (top) | 17 | Crank output no. 1 |
| 8 | Square 13 mm tandem 80 mm shaft | 18 | Single gimbal |
| 9 | Anti-fall guard | 19 | Hidden emergency exit |
| 10 | Control box | 20 | AB sheet metal (front) |

RADIO ANTI-CRUSH SAFETY DEVICE



- | | | | |
|----|---------------------------------|----|--------------------------|
| 1 | Console | 12 | Control box |
| 2 | Connecting lug | 13 | C90/C145 guiding rail |
| 3 | Roller plate | 14 | PX75 shutter slat |
| 4 | Emergency hoist | 15 | 4-channel remote control |
| 5 | Operator with emergency system | 16 | Anti-crush safety box |
| 6 | ALD | 17 | End slat seal |
| 7 | ALD bushing | 18 | End slat |
| 8 | 80 mm diameter shaft | 19 | Crank output no. 1 |
| 9 | HC sheet metal (top) | 20 | Single gimbal |
| 10 | Square 13 mm tandem 80 mm shaft | 21 | Hidden emergency exit |
| 11 | Anti-fall guard | 22 | Front sheet metal (AB) |

WIRED - SUSTAINED PRESSURE



- | | | | |
|----|-----------------------|----|---------------------------|
| 1 | Operator-side console | 12 | Console opposite operator |
| 2 | Console carriage | 13 | Connecting lug |
| 3 | Roller plate | 14 | Guiding rail |
| 4 | Emergency hoist | 15 | Built-in wired reverser |
| 5 | Operator | 16 | Shutter |
| 6 | ALD | 17 | End slat seal |
| 7 | ALD bushing | 18 | End slat |
| 8 | Shaft | 19 | Crank |
| 9 | HC sheet metal (top) | 20 | Gimbal |
| 10 | Tandem | 21 | Drive rod |
| 11 | Anti-fall guard | 22 | AB sheet metal (front) |

TYPES OF INSTALLATION

WALL-MOUNTED INSTALLATION

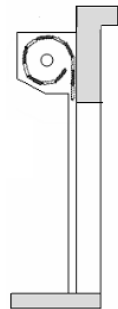


CAUTION

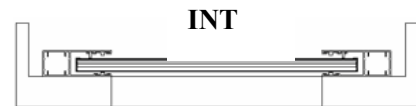
- *If OH < 300 mm



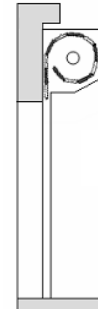
EXT



If the garage can be accessed only through the roll-up door, do not choose an exterior rolling to avoid shutting someone inside. Exterior rolling not recommended due to the marking of the slats on the winding shaft



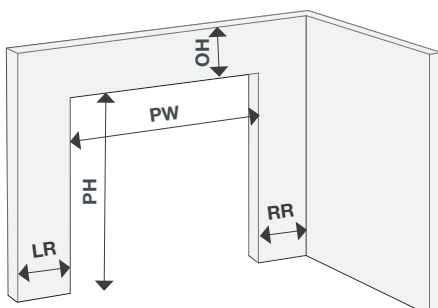
INT



INT

CAUTION

- If the reservation width is less than the width of the guiding rail, the guiding rail will protrude into the bay and may snag vehicles



PW	Passage width
PH	Passage height
OH	Overhead height
LR	Left reservation
RR	Right reservation

	MIN.	MAX.
PW	2,000 mm	3,700 mm
PH	1,800 mm	3,000 mm

	PW ≤ 3,100	3,101 ≤ PW ≤ 3,700
MIN. RR	90 mm	145 mm
MIN. RR	90 mm	145 mm
MIN. OH*	300 mm	300 mm

* The end slat protrudes 50 mm below the housing.

UNDER HEADER INSTALLATION



EXT



If the garage can be accessed only through the roll-up door, do not choose an exterior rolling to avoid shutting someone inside. Exterior rolling not recommended due to the marking of the slats on the winding shaft.

INT

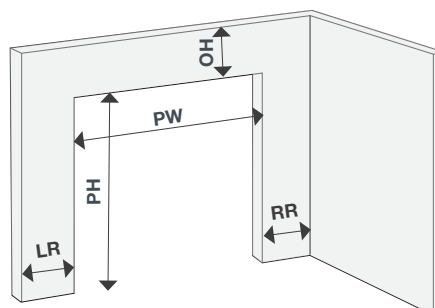


CAUTION

- When installing under the header, make sure there is sufficient clearance for vehicles
- If the reservation width is less than the width of the guiding rail, the guiding rail will protrude into the bay and may snag vehicles

	MIN.	MAX.
PW	2,000 mm	3,700 mm
PH	1,800 mm	3,000 mm

	PW ≤ 3,100	3,101 ≤ PW ≤ 3,700
MIN. RR	90 mm	145 mm
MIN. RR	90 mm	145 mm
MIN. OH*	300 mm	300 mm



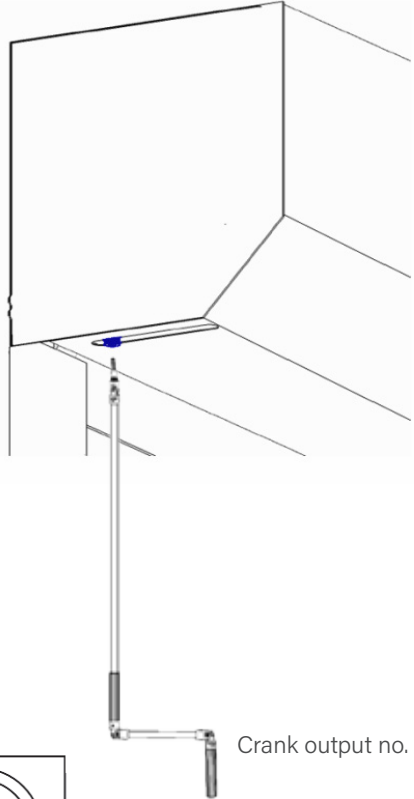
PW	Passage width
PH	Passage height
OH	Overhead height
LR	Left reservation
RR	Right reservation

REPAIR MANEUVER DEVICE

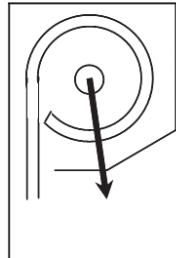
MANUAL RELEASE

INTERIOR ROLLING
Release under housing

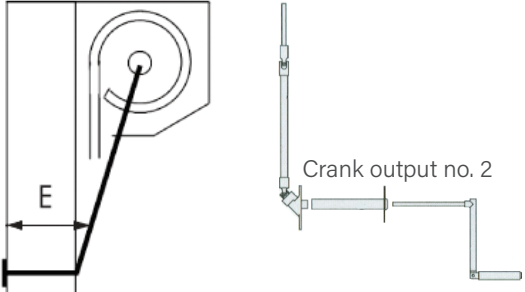
- Fixed console



Crank output no. 1

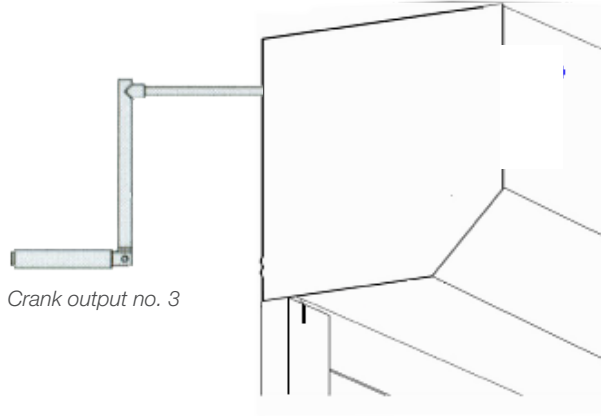


- **As standard:**
 - Repair maneuver device access kit (crank output no. 1)
- **Optional:**
 - Emergency exit with wall transom
 - Max. thickness of wall E = 500 mm

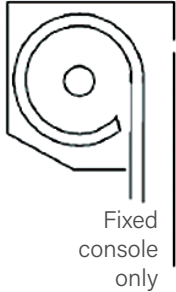


Crank output no. 2

EXTERIOR ROLLING
Release on front panel



Crank output no. 3



Fixed console only

- **As standard:**
 - Fixed console only
 - Repair maneuver device access kit (crank output no. 3)

CAUTION

- If there is no other means of accessing the garage, users must take every precaution to avoid locking themselves inside or trapping another person

OPERATING MODE

PULSE

- Anti-crush safety box: box screwed onto the end slat in the factory
(Resistant to -20°/+55°, IP22)

- + Safety edge seal
- + Control box with integrated LED courtesy lighting
- + Two 4-channel remote controls



- Anti-crush safety box



- Control box
208 x 148 x 75 mm



- 2 remote controls

SUSTAINED PRESSURE

- Hold-to-run key-operated reverser
- Optional: additional hold-to-run control button



- Key-operated reverser

INFO

- Anti-crush safety box (Standard NF EN 13241 + A2):
If the end slat comes into contact with an obstacle (while closing), the box detects the reduced speed and reverses the movement







OPERATORS

- Exterior anti-lifting system - ALD
- Electric operator with emergency operation by oscillating rod in case of power failure
- Control box with timed courtesy lighting
- Compatible with the opening system, operated via phone (Calyps'Home)





	CURRENT (A)	POWER CONSUMPTION (W)
OPERATOR 20 Nm	0.75 A	160 W
OPERATOR 25 Nm	1.1 A	240 W
OPERATOR 35 Nm	1.2 A	270 W
OPERATOR 40 Nm	1.2 A	270 W
OPERATOR 50 Nm	1.1 A	240 W
OPERATOR 55 Nm	1.5 A	320 W
OPERATOR 70 Nm	1.9 A	410 W

OPTIONS



CONTROL ACCESSORIES

CONTROL ACCESSORIES			
<p>Wired push button</p> 	<ul style="list-style-type: none"> Dimensions: 83 x 83 x 22.6 mm Wall-mounted 	<p>Radio push button</p> 	<ul style="list-style-type: none"> Dimensions: 80 x 80 x 15 mm Frequency 868 MHz
<p>Wired vandal-proof key pad</p> 	<ul style="list-style-type: none"> Dimensions: 110 x 96 x 16 mm IP 53 Resistant to -20°/+60° 	<p>Radio key pad</p> 	<ul style="list-style-type: none"> Dimensions: 115 x 75 x 30 mm IP 54 Resistant to -20°/+70° Frequency: 868.3 MHz Battery included
<p>Wired key-operated reverser</p> 	<ul style="list-style-type: none"> Dimensions: 75 x 75 x 50 mm Wall-mounted Flush-mounted Supplied with 3 keys 	<p>Radio biometric reader</p> 	<ul style="list-style-type: none"> Dimensions: 93 x 93 x 30 mm
		<p>Radio remote control</p> 	<ul style="list-style-type: none"> 4-channel remote control Dimensions: 60 x 31 x 15 mm 868 MHz

OPERATORS

MOTORIZATION OPTIONS			
<p>Cell Radio version</p> 	<ul style="list-style-type: none"> Set of mandatory cells in case of direct access to a public road Dimensions: 50 x 50 x 16 mm 	<p>Wired flashing light</p> 	<ul style="list-style-type: none"> Orange-flashing light
<p>Repair maneuver device</p> 	<ul style="list-style-type: none"> Oscillating rod with wall transom 	<p>Key cylinder</p> 	<ul style="list-style-type: none"> Key cylinder with repair maneuver device for exterior rolling

SHUTTER

SHUTTER OPTIONS			
<p>Ventilation slat</p> 	<ul style="list-style-type: none"> In the same color as the end slat Placed above the end slat 	<p>Slats with windows</p> 	<ul style="list-style-type: none"> Set of 3 slats in the same color as the end slat Dimensions: 80 x 35 cm Distribution: every 20 mm Interior rolling only Window row height: over 1,700 mm from the floor

IN PICTURES



White roll-up garage door RAL 9010



White roll-up garage door RAL 9010



Red roll-up garage door RAL 3004



Roll-up garage door Ral 9010 - interior view

STANDARDS & REGULATIONS

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CONTENTS



STANDARDS AND REGULATIONS

STANDARD NF BS EN 13241:2003+A2:2016

DATE

On 2 May 2005, standard NFP 25362 was superseded by designated standard NF BS EN 13241:2003+A2:2016.

This latest amendment harmonized the national regulations to facilitate, among other things, the free movement of goods and merchandise, and to guarantee the safety of equipment.

NF BS EN 13241:2003+A2:2016 PRODUCT STANDARD

TECHNOLOGY STANDARDS	ENVIRONMENTAL STANDARDS	SAFETY STANDARDS	ELECTRICAL STANDARDS
NF EN 12433 -1 + A1 TYPES OF DOORS	NF EN 12424 WIND RESISTANCE	NF EN 12604 MECHANICAL ASPECTS	EN 60335 -1 GENERAL REQUIREMENTS
NF EN 12433 - 2 DOOR COMPONENTS	NF EN 12444 TESTS AND CALCULATIONS	NF EN 12605 TEST METHODS	EN 60335 - 2 - 95 RESIDENTIAL GARAGES
	NF EN 12425 WATER PENETRATION	NF EN 12453 SAFETY OF USE	EN 60335 - 2 - 103 NON-RESIDENTIAL DOORS
	NF EN 12489 TEST METHODS	NF EN 12445 TEST METHODS	
	NF EN 12426 AIR PERMEABILITY	NF EN 12978 SAFETY DEVICES	
	NF EN 12427 TEST METHODS	NF BS EN 12635:2002+A1:2008 INSTALLATION AND USE	
	NF EN 12428 THERMAL TRANSMITTANCE		

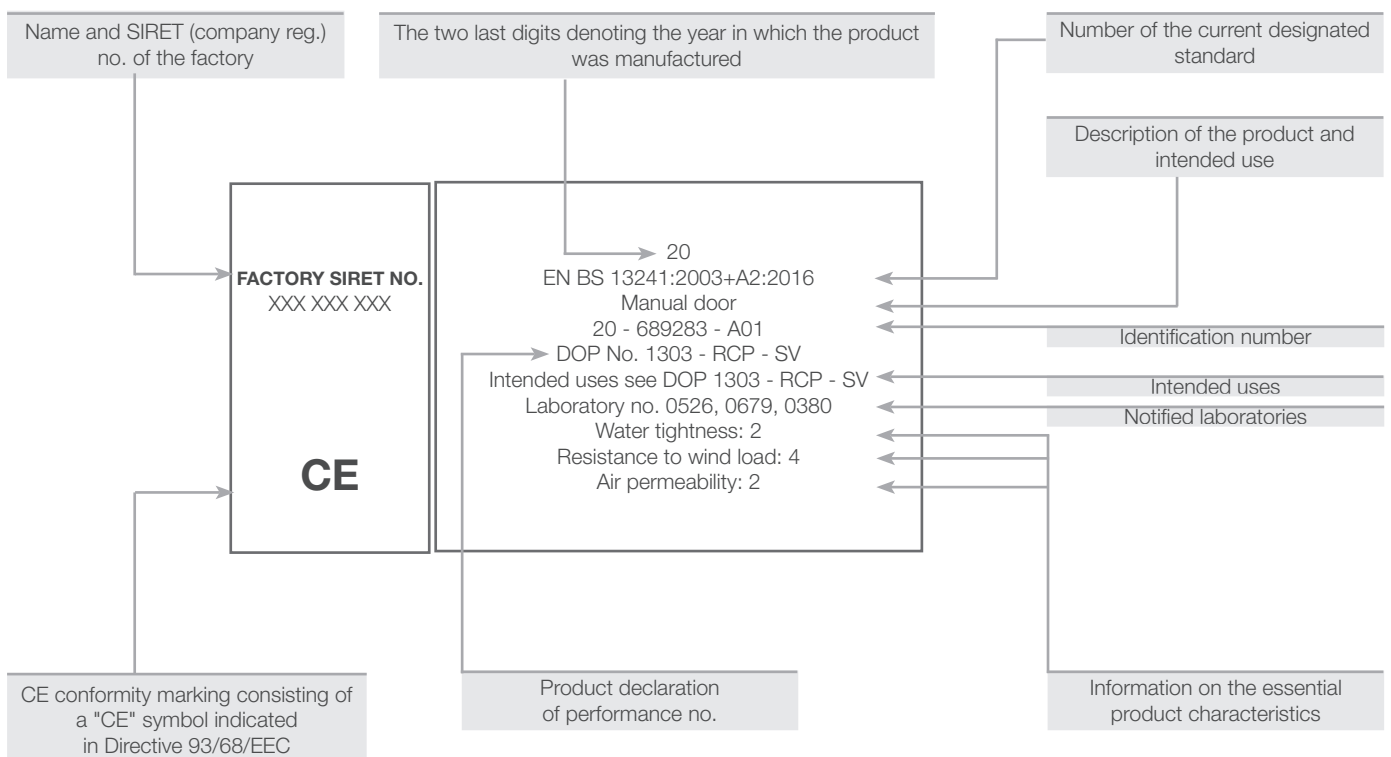
CE MARKING

- **CE marking demonstrates the manufacturer's compliance with standard NF BS EN 13241:2003+A2:2016**
 - Risk analysis carried out by the manufacturer
 - Production control in factories
 - Initial testing by a notified body (Cetim, FCBA, CSTB)
 - Test carried out by the manufacturer
- **The manufacturer must provide the following:**
 - Installation and removal instruction leaflet
 - User guide
 - Maintenance logbook
 - Declaration of conformity
 - Declarations of performance (DOP)
- **The manufacturer must affix the UKCA label and, in doing so, assumes responsibility for the product.**

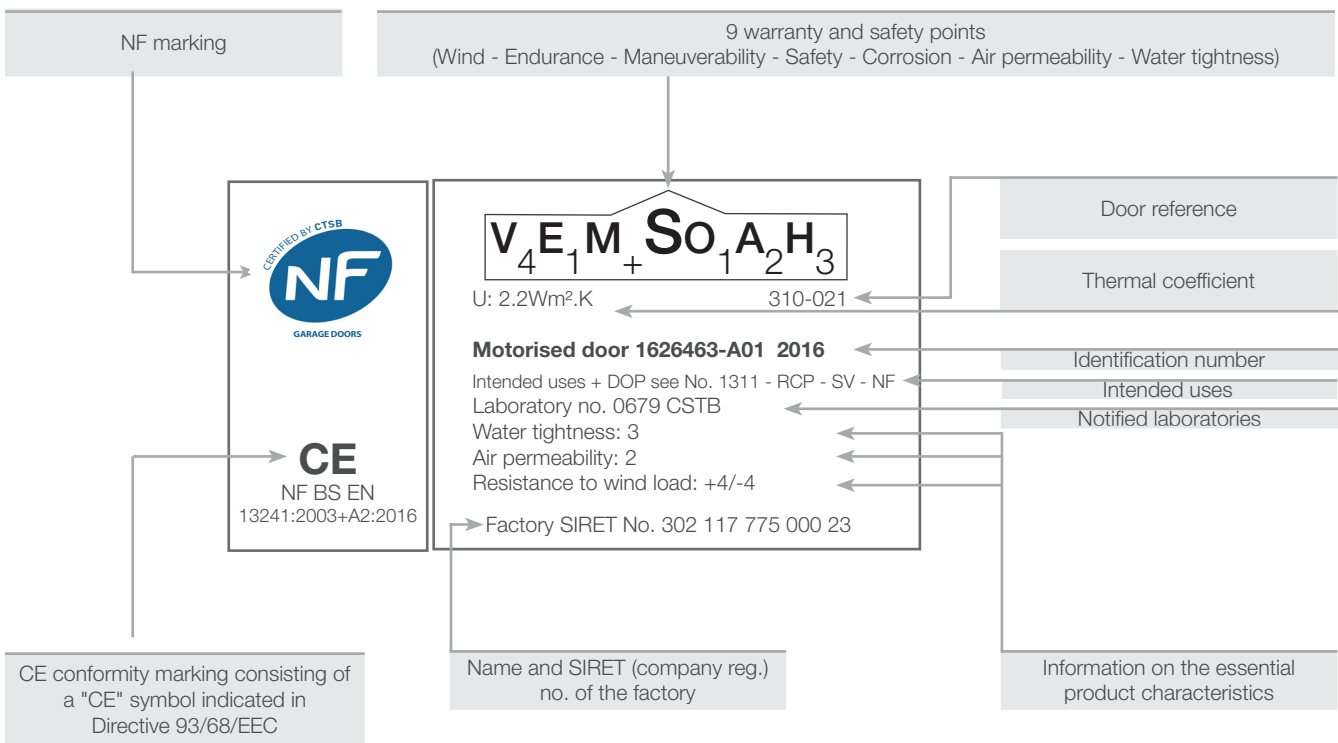
CAUTION

- The installer must give a user guide and maintenance logbook (+ removal instruction leaflet) to the end customer, who is then considered a trained user

UKCA LABEL



NF LABEL



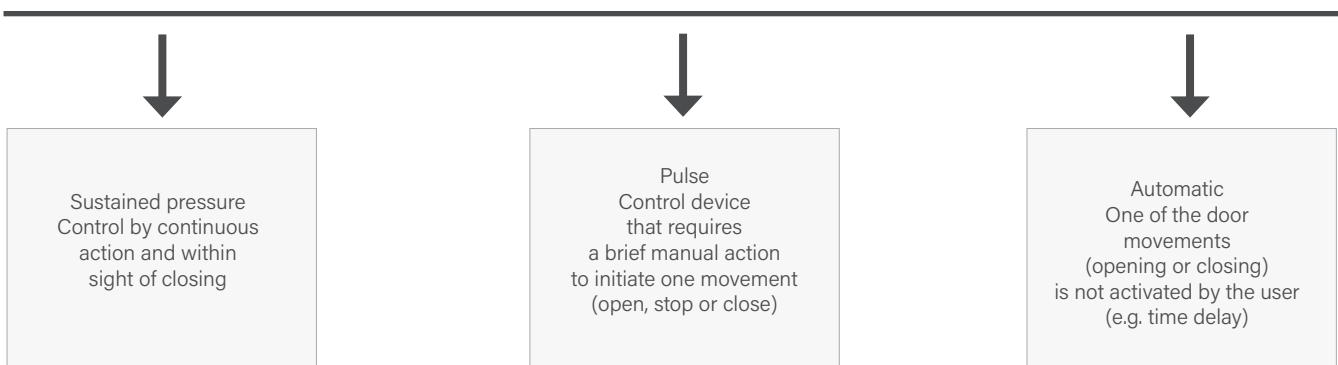
CHARACTERISTICS CHECKED BY NOTIFIED BODIES

- Operating forces
- Safety when opening
- Resistant to wind
- Emission of dangerous substances
- Air permeability
- Water tightness

OPERATING MODES

- Manual operation
- Motorised operation

DEPENDING ON THE CONTROL SYSTEM

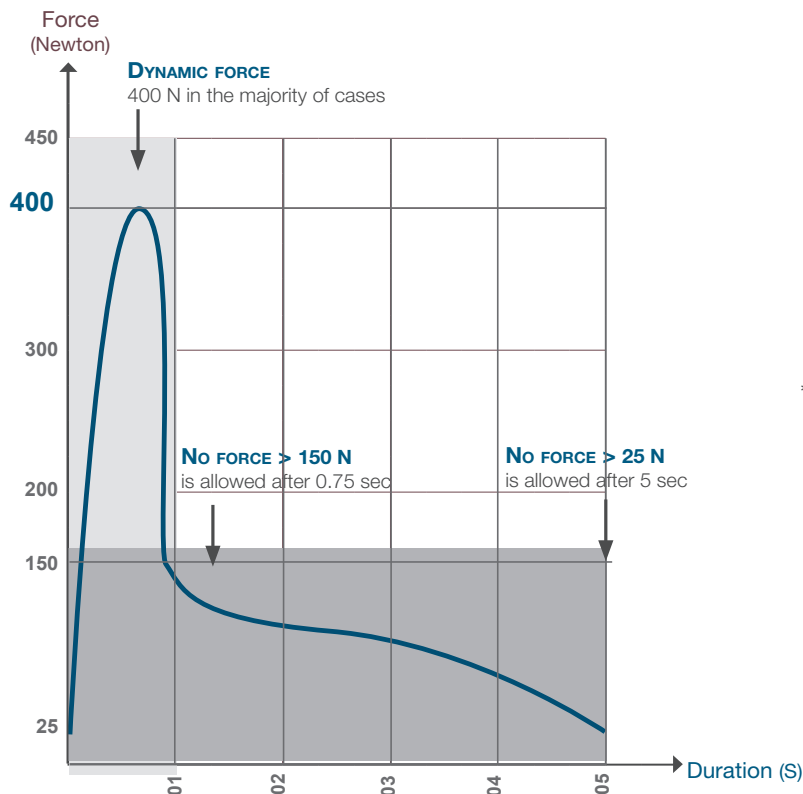


VEMSOAH: 9 WARRANTY AND SAFETY POINTS

$$V_4 E_1 M_+ S O_1 A_2 H_3$$

- **V4:** Wind resistance
 - Test load 1,100 Pa (approx. 150 km/h)
 - Ultimate tensile strength: 1,375 Pa
- **E1:** Number of continuous cycles
 - 10,000 cycles
- **M+:** Operating force (door with operator disengaged)
 - Force < or = 150 N
- **S:** Safe door
 - Protection against crushing, shearing and dragging
 - Protection against tripping hazards
 - Thrust force
- **O1:** Corrosion resistance
 - Indoor resistance to 24-hour exposure to salt spray
 - Outdoor resistance to 96-hour exposure to salt spray
- **A2:** Air permeability
 - Air flow measured at a test pressure of 50 Pa: 12 m³/m³h
- **H3:** Water tightness
 - Test pressure of 0 Pa, 10 Pa, 30 Pa, 50 Pa
 - Water spray for 25 minutes
- Electromagnetic compatibility (EMC) of individual components
- Motorization NF 60335 (NF-electricity or equivalent)
- Installation and operating instructions

LIMITATION OF FORCES



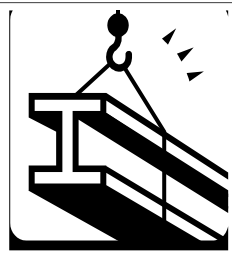
Torque measurement device*

*Device for measuring dynamic and static forces and their duration during the closing of automatic garage doors.

INFO

- All our doors comply with the values shown in the diagram

ANTI-LIFTING PROTECTION



A closure with vertical opening must not be able to lift an additional load or unbalance of more than 20 kg.

INFO

- Choice of 1 set of cells or 1 safety edge at the header or use of Intellidrive, TD 500, etc. (operators equipped with torque limiter)



Otherwise, a sensitive protective device must detect the lifted part to prevent it from coming into contact with the header or other fixed parts.



The detector must be positioned at least 2,500 mm from the ground.

PROTECTION TO PREVENT THE SHUTTER FROM FALLING

Protection must be installed to prevent the shutters of vertically opening doors from falling or from moving in an uncontrolled, unbalanced way in the event of a fault with one of the suspension system components, including the drive gear.



The shutter must stop within a maximum distance of 300 mm.



The above requirement can be ignored if the maximum static unbalance force at the primary edge of the closure does not exceed 200 N.

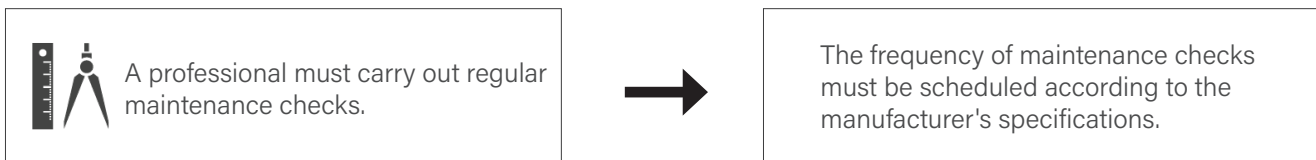


SAFETY EQUIPMENT

		SUSTAINED PRESSURE	PULSE		AUTOMATIC
			WITHIN SIGHT OF DOOR	OUT OF SIGHT OF DOOR	
TRAINED USERS	TYPE 1 OUTSIDE PUBLIC AREAS	Button box	Limitation of force* (Safety edge or similar device)		Limitation of force* (Safety edge or similar device) <u>AND</u> Detection of presence (Cells)
	TYPE 2 IN PUBLIC AREAS	Key switch box mandatory	Limitation of force* (Safety edge or similar device)	Limitation of force* (Safety edge or similar device) <u>AND</u> Detection of presence (Cells)	
UNTRAINED USERS	TYPE 3 ALL PEOPLE ALL LOCATIONS	Not possible	Limitation of force* (Safety edge or similar device) <u>AND</u> Detection of presence (Cells)		

*A safety light curtain replaces the limitation of forces and presence detection device.

MAINTENANCE



INFO

- If the unit has been approved according to standard NF BS EN 13241:2003+A2:2016, any change of one or more components is made under the sole responsibility of the person who carries it out (they may request the original manufacturer's authorization)
- Replacement of components under standard NF BS EN 13241:2003+A2:2016: When different and/or additional components are incorporated which may affect the door's characteristics, the initial conformity of the door is no longer valid
- Replacement of closure components covered by standard NF 25-362: Standard NF BS EN 13241:2003+A2:2016 does not apply retroactively. The replacement of certain components with identical components is covered by the French standard and does not result in compliance with the designated standard

CAUTION

- The professional who carries out the maintenance visits is bound by a duty of responsibility. They must ensure that:
 - The door functions correctly (manual and electric)
 - The door is in good general condition
 - The safety devices are effective
 - All the checkpoints are completed in the maintenance booklet

DECLARATION OF CONFORMITY

DOORS WITH TORSION SPRINGS - LARGE DOORS WITH TORSION SPRINGS -
DOORS WITH EXTENSION SPRINGS

DÉCLARATION DE CONFORMITÉ



Nous, soussignés, FTFM LA TOULOUSAINE, sise à Escalquens (31676 Labège Cedex), déclarons que le produit désigné ci-après satisfait les prescriptions de la norme harmonisée NF EN 13241 + A2, pour des produits livrés en fourniture seule.

En conséquence, nous déclarons la conformité du produit mentionné ci-dessous aux dispositions des directives européennes suivantes :

305/2011/CE : directive Produits de Construction (portes manuelles et motorisées)
2006/42/CE : directive Machines (portes motorisées)
2014/35/UE : directive Basse Tension (portes motorisées)
2014/30/UE : directive Compatibilité Électromagnétique (portes motorisées)

Niveaux de performances du produit :

Étanchéité à l'eau	Classe : 3
Résistance à la charge due au vent	Classe : +4 / -4
Transmission thermique	Classe : 2 ou 2,2 W/m ² .K
Perméabilité à l'air	Classe : 2

DESCRIPTION DU PRODUIT	
Lieu de fabrication	31750 ESCALQUENS - FRANCE
Modèle	Portes Sectionnelles Villa Porte maxi 3000x2250 ressorts de torsion et d'extension sans portillon.
Classe d'utilisation	Portes industrielles, commerciales et de garage manuelles ou motorisées.
Organismes notifiés	CSTB - 24, rue Joseph Fourier - 38400 ST-MARTIN D'HÈRES

Escalquens, le 30 Mai 2018

Mr Pascal SOLA
Responsable Produits

SIDE-SLIDING GARAGE DOORS



DÉCLARATION DE CONFORMITÉ



Nous, soussignés, FTFM LA TOULOUSAINÉ, sise à Escalquens (31676 Labège Cedex), déclarons que le produit désigné ci-après satisfait les prescriptions de la norme harmonisée NF EN 13241 + A2, pour des produits livrés en fourniture seule.

En conséquence, nous déclarons la conformité du produit mentionné ci-dessous aux dispositions des directives européennes suivantes :

- 305/2011/CE : directive Produits de Construction (portes manuelles et motorisées)
- 2006/42/CE : directive Machines (portes motorisées)
- 2014/35/UE : directive Basse Tension (portes motorisées)
- 2014/30/UE : directive Compatibilité Électromagnétique (portes motorisées)

Niveaux de performances du produit :

Étanchéité à l'eau	Classe : PND*
Résistance à la charge due au vent	Classe : 3
Transmission thermique	Classe : PND*
Perméabilité à l'air	Classe : PND*

Durabilité de l'étanchéité à l'eau,
de la résistance thermique et de la
perméabilité à l'air

Classe : PND*

(*) PND : Performance non déterminée

DESCRIPTION DU PRODUIT	
Lieu de fabrication	31750 ESCALQUENS - FRANCE
Modèle	Portes Villa à déplacement latéral.
Classe d'utilisation	Portes industrielles, commerciales et de garage manuelles ou motorisées.
Organismes notifiés	CSTB - 24, rue Joseph Fourier - 38400 ST-MARTIN D'HÈRES

Escalquens, le 30 Mai 2018

Mr Pascal SOLA
Responsable Produits

DECLARATION OF PERFORMANCE

DOORS WITH TORSION SPRINGS - LARGE DOORS WITH TORSION SPRINGS -
DOORS WITH EXTENSION SPRINGS



Déclaration des performances N°1303-RPC-SV

Nous, soussignés, FTFM LA TOULOUSAINE, sise à Escalquens (31676 Labège Cedex), déclarons que les produits cités ci-dessous sont conformes à l'annexe ZA de la norme NF EN 13241 + A2. Portes et portails industriels, commerciaux et de garage. (Produits sans caractéristiques coupe-feu, ni pare-fumée).

L'utilisation principale prévue est de donner un accès sûr à des marchandises et des véhicules accompagnés ou conduits par des personnes dans des locaux industriels commerciaux, publics ou résidentiels.

- Les produits concernés : Le CETIM n°0526, FCBA (CTBA) n°0380, CSTB n°0679, SP n°0402 ont réalisés les essais exigés par la norme selon le système 3.
- Rapports d'essai n°05/CTBA-IBC/PHY/3148/4 délivré par CTBA (Sectio Villa 3500x3000 mm).
- Rapports d'essai n°05/CTBA-IBC/PHY/3148/3 délivré par CTBA (Sectio Villa 5000x3000 mm).
- Rapports d'essai n°05/CTBA-IBC/PHY/3148/1 délivré par CTBA (Sectio Villa 3000x2000 mm).
- Rapports d'essai n°05/CTBA-IBC/PHY/3148/2 délivré par CTBA (Sectio Villa 3000x2000 mm).
- Rapports d'essai n°05/CTBA-IBC/PHY/3148/5 délivré par CTBA (Sectio Villa 5000x2000 mm).
- Rapports d'essai n°781395/150080 partiel 9 délivré par CETIM (Sectio Villa 5000x2400 mm).
- Rapports d'essai n°BV13-1045 délivré par CSTB (Sectio 3000x3400 mm).
- Rapports d'essai n°0402-CPR-562501 délivré par SP (Sectio Villa 3500x2500 mm).

Caractéristiques essentielles	Performances	Spécifications techniques
Étanchéité à l'eau	2	
Dégagement de substances dangereuses	Réussite	Conforme au § 4.2.9 de la norme NF EN 13241 + A2
Résistance à la charge due au vent	De 2 à 4	Classe 4 : 3000x2000 avec et sans hublots Classe 4 : 3500x3000 avec hublots Classe 3 : 5000x2000 avec hublots
Résistance thermique (le cas échéant)	NPD	1,52W/m ² .K : 5000x2000, sans hublot 1,65W/m ² .K : 5000x2000, 4 hublots coin rond 1,7W/m ² .K : 5000x2000, 6 hublots cassettes
Perméabilité à l'air	2	
Ouverture en toute sécurité	Réussite	Conforme au § 4.3.3 de la norme NF EN 13241 + A2
Définition de la géométrie des composants du verre	NPD	
Résistance mécanique et stabilité	Réussite	Conforme au § 4.2.3 de la norme NF EN 13241 + A2
Efforts de fonctionnement (pour les portes motorisées)	Réussite	Conforme au § 4.3.3 de la norme NF EN 13241 + A2
Durabilité de l'étanchéité à l'eau, de la résistance thermique et de la perméabilité à l'air par rapport à la dégradation	NPD	

Le 21 Juin 2017

Pascal SOLA
Chef produits

SIDE-SLIDING GARAGE DOORS



Déclaration des performances

N°1304-RPC-DL

Nous, soussignés, FTFM LA TOULOUSAINNE, sise à Escalquens (31676 Labège Cedex), déclarons que les produits cités ci-dessous sont conformes à l'annexe ZA de la norme NF EN 13241 + A2. Portes et portails industriels, commerciaux et de garage. (Produits sans caractéristiques coupe-feu, ni pare-fumée).

L'utilisation principale prévue est de donner un accès sûr à des marchandises et des véhicules accompagnés ou conduits par des personnes dans des locaux industriels commerciaux, publics ou résidentiels.

- Les produits concernés : Le CSTB n°0679 a réalisé les essais exigés par la norme selon le système 3.
- Rapports d'essai n°BV07-467/J1 délivré par CSTB (Porte Déplacement latéral 4400x2800 mm).
- Rapports d'essai n°BV17-0457 B délivré par CSTB (Porte Déplacement latéral avec cadre 2500x2000 mm).
- Rapports d'essai n°BV17-0457 C délivré par CSTB (Porte Déplacement latéral avec cadre 2500x2000 mm).
- Rapports d'essai n°BV17-0457 D délivré par CSTB (Porte Déplacement latéral avec cadre 2500x2000 mm).

Caractéristiques essentielles	Performances	Spécifications techniques
Etanchéité à l'eau	NPD	
Dégagement de substances dangereuses	Réussite	Conforme au § 4.2.9 de la norme NF EN 13241 + A2
Résistance à la charge due au vent	4	
Résistance thermique (le cas échéant)	NPD	
Perméabilité à l'air	NPD	
Ouverture en toute sécurité	Réussite	Conforme au § 4.3.3 de la norme NF EN 13241 + A2
Définition de la géométrie des composants du verre	NPD	
Résistance mécanique et stabilité	Réussite	Conforme au § 4.2.3 de la norme NF EN 13241 + A2
Efforts de fonctionnement (pour les portes motorisées)	Réussite	Conforme au § 4.3.3 de la norme NF EN 13241 + A2
Durabilité de l'étanchéité à l'eau, de la résistance thermique et de la perméabilité à l'air par rapport à la dégradation	NPD	

Le 06 Décembre 2017

Pascal SOLA
Chef produits

ROLL-UP GARAGE DOOR



Déclaration de Performances - Porte de garage Castellane

Numéro : DDP13001-PE-B

Je soussigné, Frédéric LAPELLEGERIE, Directeur Général de la société Profalux, déclare que les portes de garage Castellane sont conformes à l'annexe ZA de la norme NF EN 13241-1+A2 : 2016 - Portes industrielles, commerciales et de garage. (Produits sans caractéristiques coupe-feu, ni pare-fumée)

L'utilisation principale prévue est de donner un accès sûr à des marchandises et véhicules accompagnés ou conduits par des personnes dans des locaux industriels commerciaux, publics ou résidentiels.

Le CSTB a réalisé les essais exigés par la norme selon le système 3.

Dimensions hors tout : L4000 x H3300

Caractéristiques		Résultats	Valeurs
Perméabilité à l'air (1)	Pression	81 m ³ /m ² /h	Classe 0
	Dépression	51 m ³ /m ² /h	Classe 0
Perméabilité à l'air (2)	Pression	50 m ³ /m ² /h	Classe 0
	Dépression	15 m ³ /m ² /h	Classe 1
Résistance à la pénétration de l'eau		0 min	Classe 0
Résistance à la charge due au vent		Pression 623 Pa	Classe 2
		Dépression 623 Pa	Classe 2
Résistance thermique		U = 5,8 W/m ² .K	
Sécurité à l'ouverture sur bord primaire		Conforme au §4.3.3 de la norme EN 13241-1	
Dégagement de substances dangereuses		Conforme au §4.2.9 de la norme EN 13241-1	
Résistance mécanique et stabilité		Conforme au §4.2.3 de la norme EN 13241-1	
Efforts de fonctionnement		Conforme au §4.3.3 de la norme EN 13241-1	
Durabilité de l'étanchéité à l'eau, de la résistance thermique et de la perméabilité à l'air par rapport à la dégradation		Conforme au §4.4.7 de la norme EN 13241-1	

- (1) Avec lames hublots
(2) Sans lames hublots

Dimensions hors tout : L2680 x 2500

Caractéristiques		Résultats	Valeurs
Perméabilité à l'air	Pression	11,2 m ³ /m ² /h	Classe 2
	Dépression	11,7 m ³ /m ² /h	Classe 2
Résistance à la pénétration de l'eau		0 min	Classe 0
Résistance à la charge due au vent		Pression 970 Pa	Classe 3
		Dépression 970 Pa	Classe 3
Résistance thermique		U = 5,8 W/m ² .K	
Sécurité à l'ouverture sur bord primaire		Conforme au §4.3.3 de la norme EN 13241-1	
Dégagement de substances dangereuses		Conforme au §4.2.9 de la norme EN 13241-1	
Résistance mécanique et stabilité		Conforme au §4.2.3 de la norme EN 13241-1	
Efforts de fonctionnement		Conforme au §4.3.3 de la norme EN 13241-1	
Durabilité de l'étanchéité à l'eau, de la résistance thermique et de la perméabilité à l'air par rapport à la dégradation		Conforme au §4.4.7 de la norme EN 13241-1	

Le 21 Mars 2019
Frédéric LAPELLEGERIE, Directeur Général.



www.profalux.com

BOITE POSTALE N°93 – THYEZ – 74311 CLUSES CEDEX – Tél. 04.50.98.42.27 – Fax 04.50.98.64.50

Profalux Industrie
S.A.S. au Capital de 2 302 816 Euros – 410 141 170 R.C.S. Annecy – APE 2512Z – C.E.E FR 56 410 141 170
377, rue des Cyprès – 74300 THYEZ

2012 THERMAL REGULATIONS

ROLL-UP GARAGE DOOR



Monsieur,

Pour faire suite à votre interrogation sur le fait que nos produits soient compatibles avec la **Réglementation Thermique 2012 (RT2012)**, nous vous assurons de leur parfaite compatibilité.

La RT2012 est une obligation de résultat.

Elle impose à tous types de construction quatre valeurs cibles :

- une consommation maximale d'énergie par an :

$$C_{ep\ max} = 50kWh_{ep}/m^2/an$$

(modulable en fonction de la zone géographique, l'altitude et de la surface)

- des besoins en chauffage, ventilation et éclairage maximum :

$$B_{bio\ max} = 60$$

(modulable en fonction de la zone géographique, de l'altitude, surface et la catégorie du bâtiment)

- Une température intérieure conventionnelle de référence:

$$T_{ic} < T_{ic\ ref} (26^{\circ}C)$$

- Une perméabilité à l'air cible :

$$Q_{4Pa-Surf} = 0,6\ m^3/h/m^2\ \text{en maison individuelle}$$

$$Q_{4Pa-Surf} = 1\ m^3/h/m^2\ \text{en collectif}$$



www.profalux.com

BOITE POSTALE N°93 – THYEZ – 74311 CLUSES CEDEX – Tél. 04.50.98.42.27 – Fax 04.50.98.64.50

Profalux Industrie
S.A.S. au Capital de 2 266 000 Euros – 410 141 170 R.C.S. Annecy – APE 2512Z – C.E.E FR 56 410 141 170
377, rue des Cyprès – 74300 THYEZ

ROLL-UP GARAGE DOOR



Mandaté par AFNOR Certification



CERTIFICAT

PORTES DE GARAGE – HABITAT INDIVIDUEL

Porte de garage enroulable CASTELLANE

Le CSTB atteste que le produit ci-dessus est conforme à des caractéristiques décrites dans les règles de certification NF 421 en vigueur, après évaluation selon les modalités de contrôles définies dans ce référentiel.

En vertu de la présente décision notifiée par le CSTB, AFNOR Certification accorde à :

La société **PROFALUX**
 377, rue Cyprès
 FR – 74300 THYEZ

Usine de **FR – 74300 THYEZ**

le droit d'usage de la marque NF-PORTES DE GARAGE-HABITAT INDIVIDUEL pour le produit objet de cette décision, pour toute sa durée de validité et dans les conditions prévues par les règles générales de la marque NF et les règles de certification mentionnées ci-dessus.

Décision d'admission n° 001-263-010 du 1 mars 2011

Décision d'extension n° 010-263-010 du 1 juin 2015

Cette décision annule et remplace la décision n° 009-263-010 du 8 juillet 2014

*Sauf retrait, suspension ou modification, ce certificat est valide.
 Sa validité doit être vérifiée sur la liste des titulaires du droit d'usage disponible à l'adresse suivante :
<http://evaluation.cstb.fr/certifications-produits-services/produit/portes-garage-habitat-individuel/>*

CARACTERISTIQUES CERTIFIEES

Résistance au vent :	V ₂ , V ₃	Selon dimensions
Endurance mécanique :	E ₁	10 000 cycles
Manœuvrabilité :	M ₄	Manœuvre motorisée
Sécurité :	S	Critères satisfaisants
Corrosion :	O ₂	Critère accepté
Perméabilité à l'air :	A ₀ , A ₂	Selon dimensions
Étanchéité à l'eau :	H ₀	Critère accepté
Résistance aux chocs :	C	Critère satisfaisant
Résistance thermique :	U ₀	Selon dimensions

V₃ E₁ M₄ S O₂ A₂ H₀

V₂ E₁ M₄ S O₂ A₀ H₀

Les portes de garages bénéficiant de ce certificat doivent comporter sur le panneau bas, le marquage VEMSOAH tel que ci dessus. Les niveaux des classes, en fonction de la configuration et des dimensions, sont ceux retenus dans le dossier de la marque déposée au CSTB et synthétisés dans les pages suivantes.

Ce certificat comporte 2 pages.

Correspondant

Bruno CHEVALIER

Tél. : 04 76 76 25 56

Fax : 04 76 76 25 24

E-mail : bruno.chevalier@cstb.fr

Pour le CSTB
 Le Directeur Technique



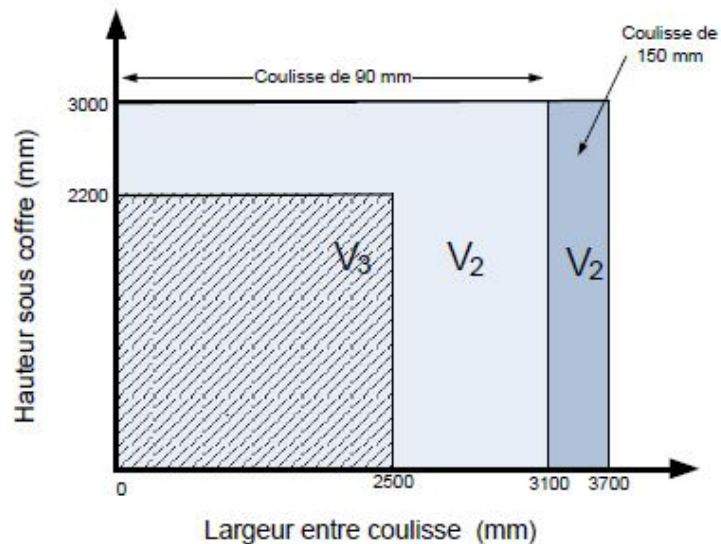
Charles BALOCHE



Décision de reconduction n° 010-263-010 du 1 juin 2015

Page 2

PERFORMANCES

 ☞ *Résistance au vent :*

 ☞ *Endurance mécanique :* E1

 ☞ *Manœuvrabilité :* M₊

 ☞ *Sécurité :* S, critères satisfaisants

 ☞ *Corrosion :* O₂

 ☞ *Perméabilité à l'air :* A₂ pour une dimension inférieure à 2500x2200 mm et A₀ au-delà jusqu'au maximum de 3700x3000 mm

 ☞ *Étanchéité à l'eau :* H₀

 ☞ *Résistance aux chocs:* C, Critère satisfaisant

 ☞ *Résistance thermique :*

- $U_D=5,8 \text{ W/m}^2\cdot\text{K}$ (3700*3000 mm, LxH)
- $U_D=5,8 \text{ W/m}^2\cdot\text{K}$ (2500*2200 mm, LxH)
- $U_D=5,8 \text{ W/m}^2\cdot\text{K}$ (2400*2000 mm, LxH)

WARRANTIES

GARAGE DOORS



Garanties

Portes de garage La Toulousaine

Les portes sectionnelles Habitat et portes de garage enroulables vendues par La Toulousaine à compter du 01 mars 2020 bénéficient de la garantie contractuelle suivante

1 - Durée

La Toulousaine garantit, à compter de leur date d'expédition, ses portes sectionnelles Habitat 10 ans (2 ans pour l'aspect Chêne Moyen), et 5 ans ses portes de garage enroulables.

L'accroche et le pouvoir protecteur de la peinture est garanti 5 ans.

2 - Etendue

Cette garantie s'étend, au choix de La Toulousaine, à la réparation ou au remplacement des pièces reconnues défectueuses dans la limite des exclusions définies ci-dessous.

Cette garantie est conditionnée par la souscription à un contrat d'entretien obligatoire par un installateur professionnel qualifié (selon la norme EN NF 13241+A2).

Lorsque cette garantie est mise en œuvre, les pièces remplacées sont garanties jusqu'à l'échéance de la garantie de la commande initiale.

Les accessoires et motorisations sont garantis selon les conditions du fabricant.

3 - Exclusion

Cette garantie comprend uniquement la réparation ou le remplacement des pièces reconnues défectueuses par La Toulousaine après examen, à l'exclusion de toute participation à tout autre préjudice quel qu'il soit.

La garantie ne couvre notamment pas la prise en charge :

- des frais de dépose – démontage – repose des produits,
- des détériorations dues :
 - à l'usure normale et aux consommables (pile, ampoule, câble, joint caoutchouc, ...),
 - à l'inobservation des règles de l'art, normes ou instructions de La Toulousaine lors de l'installation ou de l'utilisation des produits,
 - à l'utilisation non conforme à leur destination initiale, même passagère,
 - à des mauvaises conditions de stockage,
 - à tout aléa lié à la pose ou à une mauvaise utilisation avant la réception du chantier (coups, rayures, ...)
 - aux phénomènes météorologiques exceptionnels :
 - o vent violent,
 - o foudre.
 - à l'utilisation d'éléments non compatibles,
 - à des influences extérieures telles que feu, eau, sels, bases, acides, conditions environnementales anormales, projections diverses, cas de force majeure,
 - à la négligence ou au mauvais entretien ou à un manque d'entretien (présentation du carnet d'entretien obligatoire).
- des produits modifiés,
- des produits situés à moins de 500 m d'un front de mer ou à moins de 50 m d'une atmosphère agressive,
- des défauts ou imperfections non visibles à 1,5 m lors d'un examen de 10 secondes avec une vue normale sous un éclairage significatif,
- des frais d'entretien,
- de non-conformité de produits aux documentations commerciales, qui sont des documents non contractuels,
- de tous dommages matériels ou immatériels consécutifs ou non consécutifs au défaut du produit.
- des dégradations de brillance et de teinte liées aux conditions environnementales et d'exposition (UV par exemple)

GARAGE DOORS

RESIDENTIAL



www.latoulousaine.com