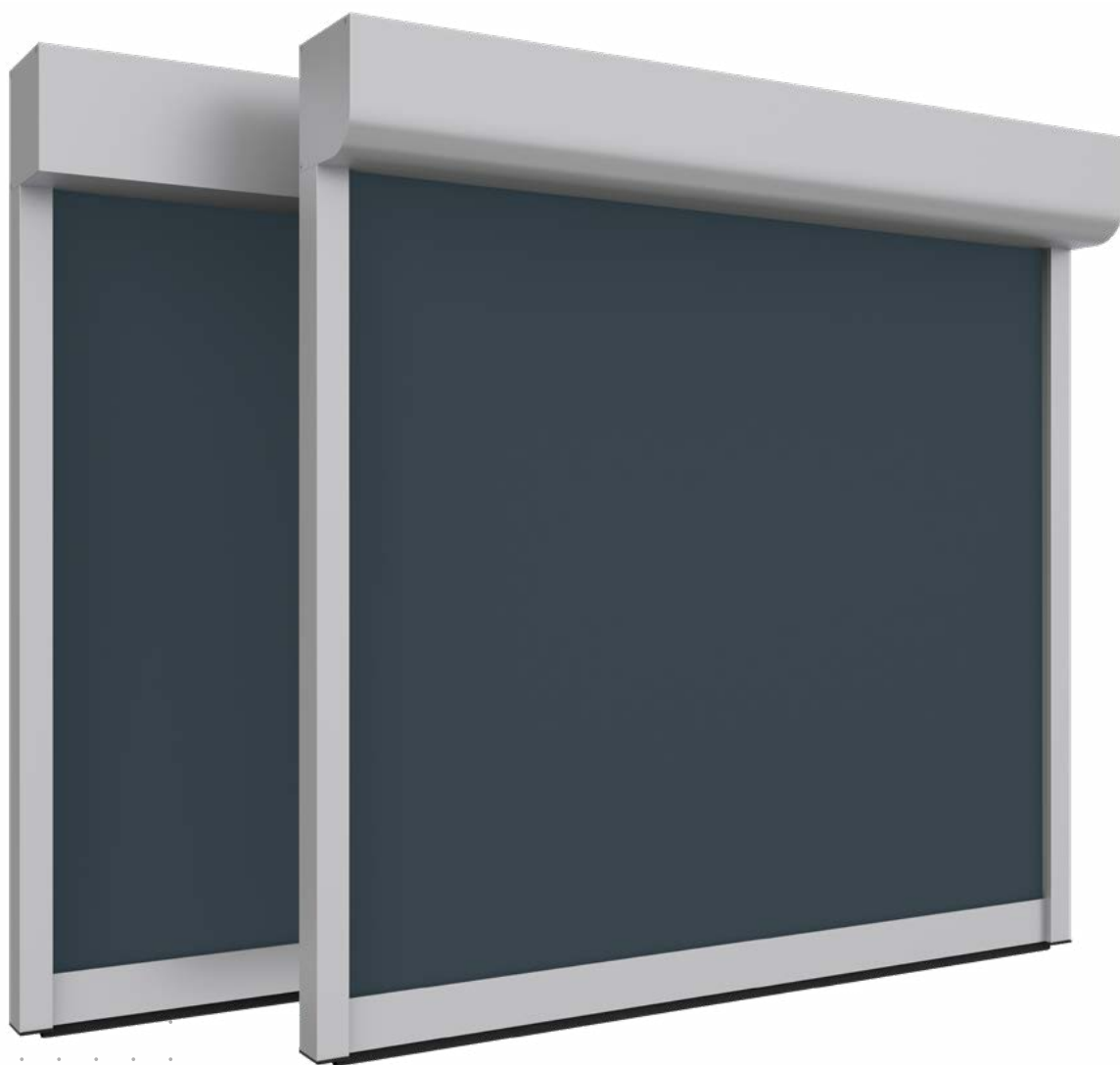


Technical Manual

Wind Screen Dante&Grazia



Index

1. General recommendations regarding safety, use and restrictions	4
2. Parts list and section	5
2.1 Wind Screen 85 Dante with motor	5
2.2 Wind Screen 105 Dante with motor	6
2.3 Wind Screen 125 Grazia with motor	7
2.4 Wind Screen 150 Dante with motor	8
2.5 Boxes and guides	9
2.6 Profiles and accessories	11
2.7 Screws	12
3. Dimensions	13
4. Cutting boards and selection	14
4.1 Wind Screen 85 with motor reductions	14
4.2 Wind Screen 105 with motor reductions	14
4.3 Wind Screen 125 with motor reductions	15
4.4 Wind Screen 150 with motor reductions	15
4.5 Wind Screen 85 material manufacturing measurements	15
4.6 Wind Screen 105 material manufacturing measurements	15
4.7 Wind Screen 125 material manufacturing measurements	16
4.8 Wind Screen 150 material manufacturing measurements	16
4.9 Motor selection according to dimensions	17

5. Assembly instructions	18
5.1 Axle preparation.....	18
5.1.1 Wind Screen 85 with motor	18
5.1.2 Wind Screen 105 with motor	18
5.1.3 Wind Screen 125 with motor.....	19
5.1.4 Wind Screen 150 with motor	19
5.2 Box assembly	20
5.3 Bottom weight assembly	22
5.4 Guide preparation	22
6. Installation instructions	24
6.1 On-site installation	24
6.2 Installation on pergola	27
6.3 Dante wind screen box 150 installation	30
7. Wind resistance (EN 13659)	32
8. Maintenance	33
8.1 Cleaning and care	33
<i>Annex I What to do in case of emergency</i>	<i>34</i>
<i>Annex II Motor configuration</i>	<i>35</i>
<i>Annex III Disassembly and disposal of the packaging and components of the product at the end of its useful life</i>	<i>48</i>

Important

It is important to read these instructions carefully before installation, operation, repair or first use, in order to protect the safety of persons and to the integrity of the product.

1. General recommendations regarding safety. Use and restrictions

In order to ensure the safe assembly, use and maintenance of this product, a number of precautionary measures must be taken. Please observe the following warnings and instructions, for the safety of all concerned. Please contact your distributor with any queries.

- This manual is intended as a reference for experienced professionals and should therefore not be used by DIY amateurs or trainee fitters.

- This manual describes the installation of the product assembly COMPONENTS, and refers to the electrical control installation manuals. If necessary, this manual should be supplemented with instructions for any additional COMPONENTS not described herein.

- Please read this manual carefully before starting work.

- Some COMPONENTS may be sharp or have jagged edges. It is therefore advisable to wear safety gloves.

- All parts supplied have been designed specifically for this product. The replacement or addition of other parts may have a negative effect on the safety of the product and its warranty. In addition, the CE certification of this product will become invalid if any parts are replaced or if the installation is not carried out in accordance with the instructions in this manual. The installer shall accept full responsibility in this regard.

- Ensure that the assembly area is sufficiently illuminated. Remove any obstacles or dirt. Make sure nobody is present besides the fitters. Unauthorised persons (especially children!) may interfere or cause hazards during installation.

Before assembly, it is very IMPORTANT for your safety and that of the product to follow all the recommendations listed below. A poor-quality installation may cause harm to people or damage to the installation itself.

Once the product has been unpacked, the professional fitter has to check its integrity. Before starting the installation, the arrangement of all components and tools must be checked in order to install the product correctly. In case of doubt, contact **Saxun**'s technical department.

Under no circumstances should a damaged product be installed, as it may damage the equipment and create situations that are dangerous for people.

These **systems are exclusively intended for the use for which they were designed**. Any other use is inappropriate, and therefore dangerous.

The system installation must always be performed by a professional fitter, respecting the manufacturer's indications, as well as knowing and applying all the regulations in force.

Should any damage and/or a system malfunction be detected, **do not continue** with the installation.

The manufacturer will not be liable for damage caused during the installation due to non-compliance with these recommendations.

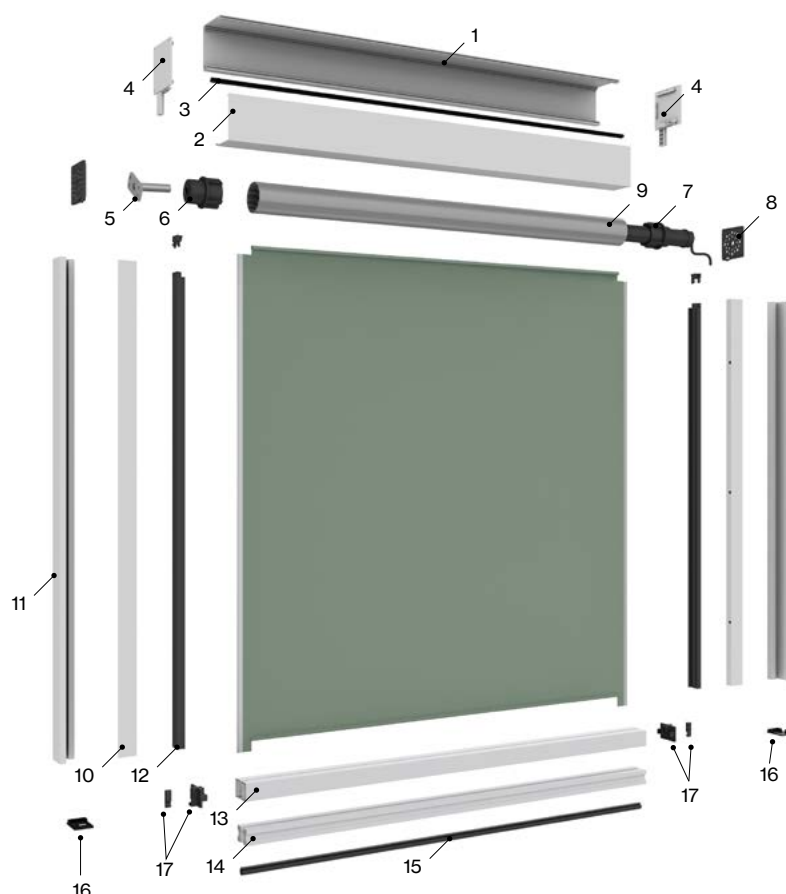
Important

For power operated products, the existing voltage must be checked before installation.

The connection must always be a grounded connection. Otherwise, do not continue the installation as it may be dangerous.

2. Parts list and section

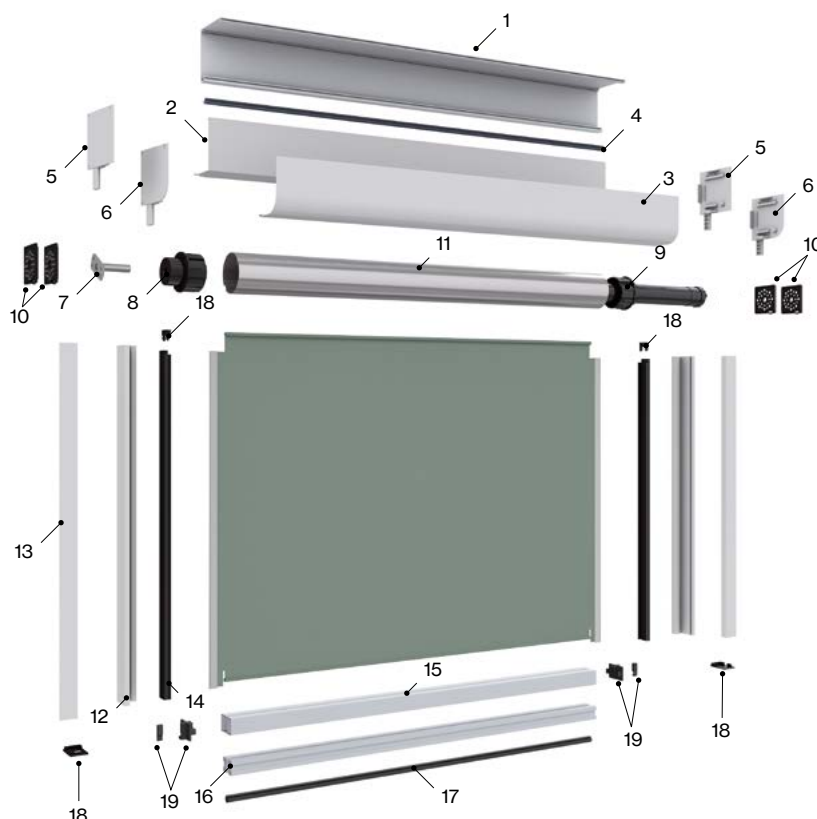
2.1 Wind Screen 85 Dante with motor



Components

Nº	Code	Description	Nº	Code	Description
1	024626	Box 85 profile Wind Screen Dante	10	024126	Rear guide 33.4 Wind Screen Dante-Grazia
2	024625	Opening 85 profile Wind Screen Dante	11	024125	Front guide Wind Screen Dante-Grazia
3	008097	Brush 5 x 10 - Box	12	024179	Rack guide profile 26x13.5
4	024696	Set end cap 85 Wind Screen Dante	13	024947	Bottom weight 33 x 47 - WS Dante-Grazia 85/105
5	024219	Pivot bracket 14 mm	14	024948	Profile Counterweight Wind Screen 85/105
6	024694	Hollow cap 14 mm - Axe ø60	15	024186	Rubber seal 18x15
7	024695	Motor cap LT40 - Axe ø60	16	024202	Bottom weight-guide Wind Screen Dante-Grazia
8	024199	Set end cap plates Wind Screen Dante-Grazia	17	120054	Set blockage bottom weight Wind Screen 33 x 47
9	030506	Aluminium tube 60			

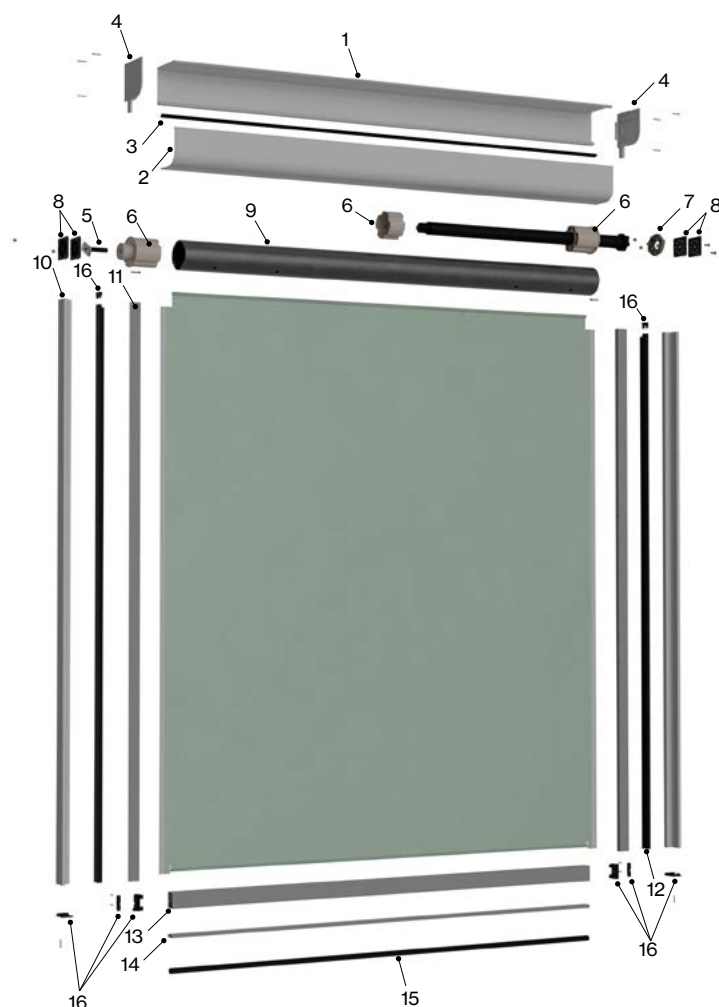
2.2 Wind Screen 105 Grazia with motor



Components

Nº	Code	Description	Nº	Code	Description
1	024969	Box 105 profile Wind Screen V.2	11	022807	Axle ø80
2	024970	Opening 105 profile box Wind Screen Dante 105 V.2	12	024125	Rear guide 33.4 Wind Screen Dante-Grazia
3	024123	Opening 105 profile Wind Screen Grazia	13	024126	Front guide Wind Screen Dante-Grazia
4	041068	Brush Ref.:69-1000	14	024179	Rack guide profile 26x13.5
5	024189	Set end cap 105 Wind Screen Dante	15	024947	Bottom weight 33 x 47 WS Dante-Grazia 85/105
6	024191	Set end cap 105 Wind Screen Grazia	16	024948	Profile Counterweight Wind Screen 85/105
7	024219	Pivot bracket 14 mm	17	024186	Rubber seal 18x15
8	024228	Hollow cap 14 mm Wind Screen Dante-Grazia	18	024202	Bottom weight-guide Wind Screen Dante-Grazia
9	024227	Motor cap 50 Wind Screen Dante-Grazia	19	120054	Set blockage bottom weight Wind Screen 33 x 47
10	024199	Set end cap plates Wind Screen Dante-Grazia			

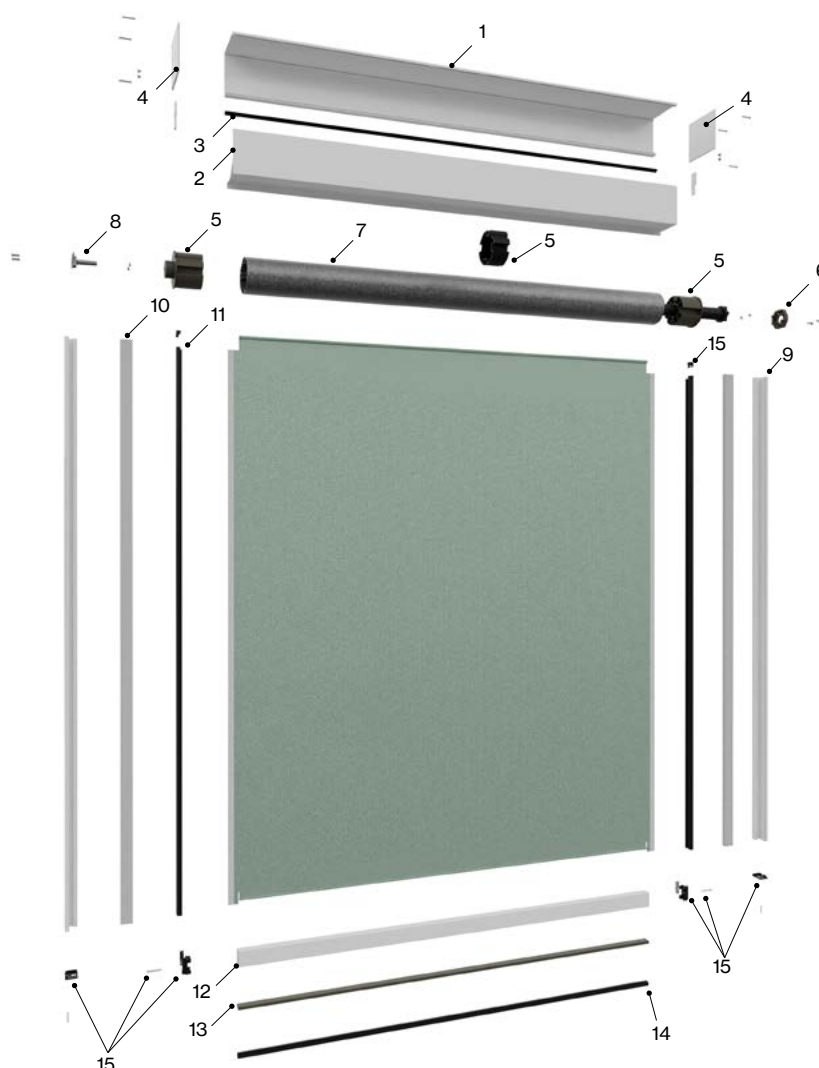
2.3 Wind Screen 125 Grazia with motor



Components

Nº	Code	Description	Nº	Code	Description
1	024971	Box profile 125 Wind Screen V.2	9	024216	Axle ø100
2	024130	Opening 125 profile Wind Screen Grazia	10	024125	Rear guide 33.4 Wind Screen Dante-Grazia
3	041068	Brush Ref.:69-1000	11	024126	Front guide Wind Screen Dante-Grazia
4	024192	Set end cap 125 Wind Screen Grazia	12	024179	Rack guide profile 26x13.5
5	024219	Pivot bracket 14 mm	13	024131	Bottom weight 53x28 Wind Screen Dante-Grazia
6	120072	Capsule set WS-125	14	024413	Calibrated bottom weight plate 25x10 mm
7	503260	Op. HiPro Wind Screen universal bracket	15	024186	Rubber seal 18x15
8	024199	Set end cap plates Wind Screen Dante-Grazia	16	024202	Bottom weight-guide kit WS Dante-Grazia

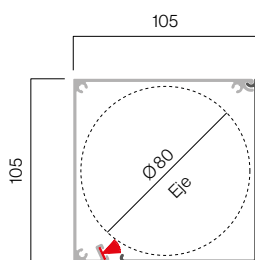
2.4 Wind Screen 150 Dante with motor



Components

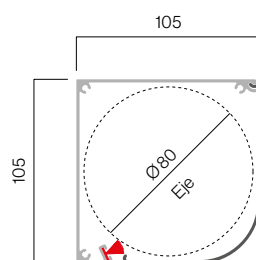
Nº	Code	Description	Nº	Code	Description
1	024465	Box 150 profile Dante	9	024125	Rear guide 33.4 Wind Screen Dante-Grazia
2	024463	Opening 150 profile Dante	10	024126	Front guide Wind Screen Dante-Grazia
3	041068	Brush Ref. 69-1000	11	024179	Rack guide profile 26x13.5
4	024504	Set end cap Dante 150	12	024131	Bottom weight 53x28 Wind Screen Dante-Grazia
5	120073	Capsule set WS-150	13	024413	Calibrated bottom weight plate 25x10 mm
6	503260	Op. HiPro Wind Screen universal bracket	14	024186	Rubber seal 18x15
7	024464	Axle ø120 mm	15	024202	Bottom weight-guide kit WS Dante-Grazia
8	030569	Axle cup support bolt 78			

2.5 Boxes and guides



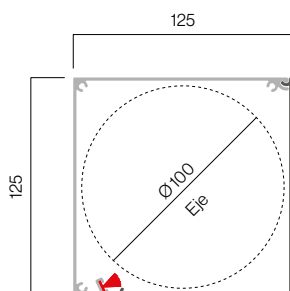
Box 105 profile Wind Screen V.2
024969

Opening 105 profile box Wind
Screen Dante 105 v.2
024970



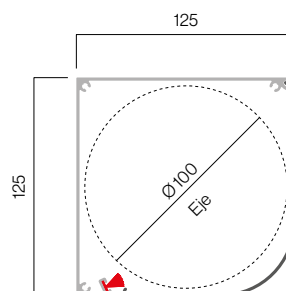
Box 105 profile Wind Screen V.2
024969

Opening 105 profile Grazia
024123



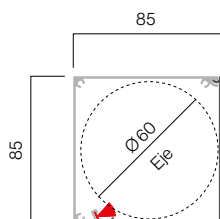
Box profile 125 Wind Screen V.2
024971

Opening profile box Wind
Screen Dante 125 V.2
024129



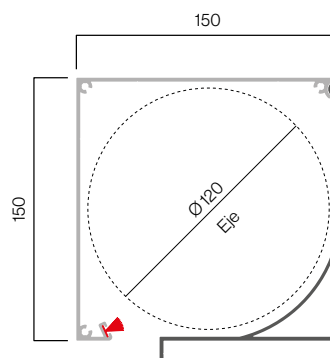
Box profile 125 Wind Screen V.2
024971

Opening profile 125 Grazia
024130



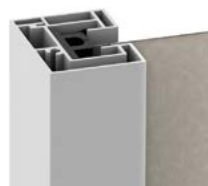
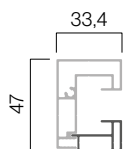
Box 85 profile
024626

Opening 85 profile
024625



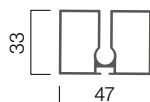
Box 150 profile Dante
024465

Opening 150 profile
024463

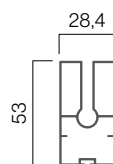


Rear guide 33.40 mm
024125

Front guide
024126



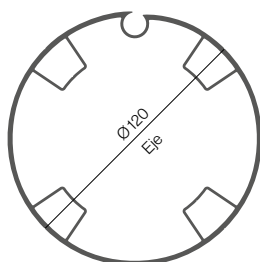
Bottom weight 33 x 47
Wind Screen
Dante-Grazia 85/105
024947



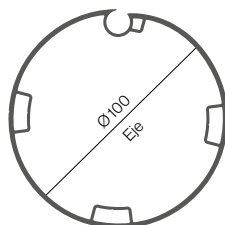
Bottom weight 53x28 mm
024131



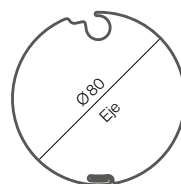
Rack guide profile
26x13.50 mm
024179



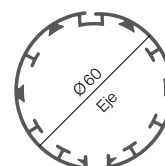
Axle Ø120 mm
024464



Axle Ø100 mm
024216



Axle Ø80 mm
022807

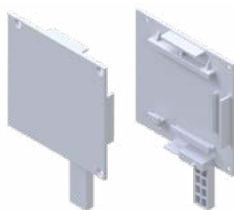


Aluminium tube
Ø60 mm
030506

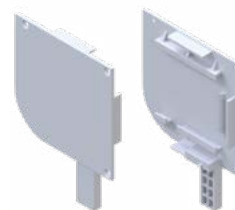
2.6 Profiles and accessories



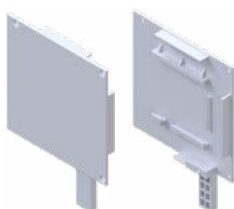
Set end cap 85
Wind Screen Dante
024696



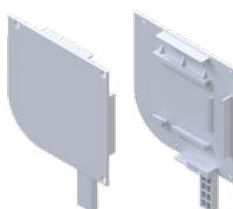
Set end cap 105
Wind Screen Dante
024189



Set end cap 105
Wind Screen Grazia
024191



Set end cap 125
Wind Screen Dante
024190



Set end cap 125
Wind Screen Grazia
024192



Set end cap 150
024504



Capsule set WS-125
120072



Capsule set WS-150
120073



Pivot bracket 14 mm
024219



Hollow cap 14mm
Eje Ø60
024694



Motor cap LT40
Eje Ø60
024695



Motor cap 50
Wind Screen Dante & Grazia
024227



Hollow cap 14 mm
Wind Screen Dante & Grazia
024228



Set end cap plates
Wind Screen Dante & Grazia
024199



Bottom weight kit
Wind Screen Dante & Grazia
024202

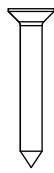


Axle cup support bolt 78
030569

2.7 Screws



Screw DIN 7505A
A2 5x40 mm
022837



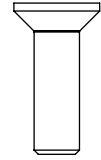
Screw DIN 7982 Z A2
4.20x19 mm
024289



Screw DIN 7982
3.50x25 mm
507040



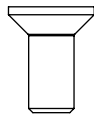
Screw DIN 7505
2.50x12 mm
006283



Screw DIN 7991 10.9
allen M6x20 mm
507360



Screw DIN 965 A2
M6x25 mm
008542



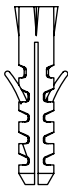
Screw DIN 7991 A2
M6x14 mm
024502



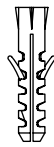
Screw DIN 7991 A2
M6x10 mm
024455



Screw 3.50x13 mm
self-tapping
027072



Lug 8 mm
008878



Lug 7 mm
008876



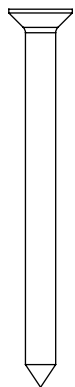
Screw DIN 7991
M6x8 mm zinc-plated
507453



Screw DIN 912 A2
M4x25 mm
024181



Nut DIN 934 A2 M6
030308



Screw DIN 7982 A2
4.2x50 mm
024109



Screw DIN 7991 A2
M4x6 mm
024503

3. Dimensions

Dante 85 box with motor

Maximum		Minimum	
Height*	2.50 m	Height	-
Width	3.00 m	Width (mechanical motor)	0.60 m
		Width (remote motor)	0.65 m

**Maximum height according to fabric*

2165	2.10 m	Soltis 88	2.50 m	Top FR	2.50 m
Precontrain 502	2.30 m	Screen Titan	2.50 m	Soltis 92	2.30 m
Acrylic canvas special Sol-Rain	1.60 m	Fiberglass	2.50 m	Soltis W96	2.30 m
Soltis 96	2.50 m	Precontrain 622	2.00 m	Soltis B92	2.20 m
Acrylic canvas	1.60 m	Green fabric	1.60 m	Screen Elarus Black-out	2.40 m

Dante&Grazia 105 box with motor

Maximum		Minimum	
Height*	3.50 m	Height	-
Width	4.00 m	Width (mechanical motor)	0.73 m
		Width (remote motor)	0.80 m

**Maximum height of 3 m. for acrylic fabrics and fabric + glass*

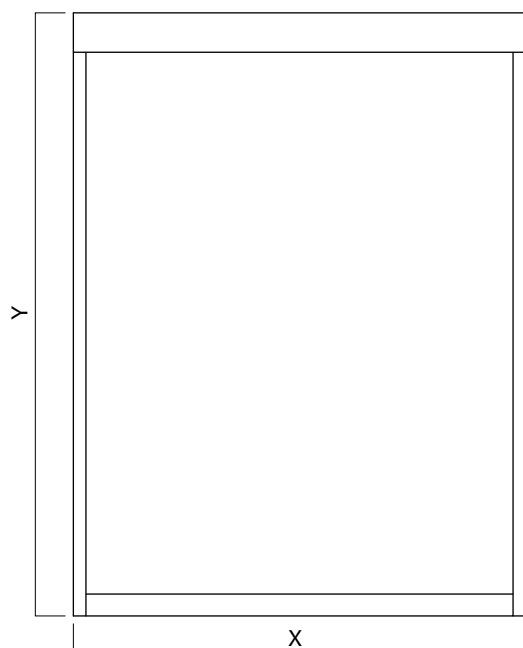
Dante&Grazia 125 box with motor

Maximum		Minimum	
Height	3.50 m	Height	-
Width	5.00 m	Width (mechanical motor)	0.69 m
		Width (remote motor)	0.79 m

Dante&Grazia 150 box with motor

Maximum		Minimum	
Height	3.50 m	Height	-
Width	6.00 m	Width (mechanical motor)	0.65 m
		Width (remote motor)	0.78 m

4. Cutting boards and selection



! Important

To cut the profiles it will be necessary to take into account the reduction tables according to the box size and actuator type.

Reductions are always based on the total dimensions (equivalent to the clearance of the space where they will be installed).

X Total width (mm)

Y Total height (mm)

4.1 Wind Screen 85 with motor reductions

Components	Discount (mm)
Box 85 profile	X - 6
Opening 85 Profile	X - 6
Front guide	Y - 88
Rear guide 33.40 mm	Y - 88
Rack guide profile 26x13.50 mm	Y - 100
Bottom weight 33x47 mm	X - 80
Axle ø60 mm	X - 91
Brush 5 x 10 - Box	X - 6
Rubber seal 18x15 mm	X - 74
Counter-weight profile Wind Screen 85/105	X - 82

4.2 Wind Screen 105 with motor reductions

Components	Discount (mm)
Box 105 profile	X - 6
Opening 105 Profile	X - 6
Front guide	Y - 108
Rear guide 33.40 mm	Y - 108
Rack guide profile 26x13.50 mm	Y - 120
Bottom weight	X - 80
Axle ø80 mm	X - 106
Brush Ref. 69-1000	X - 6
Rubber seal 18x15 mm	X - 71
Bottom weight plate 25x10 mm	X - 107

4.3 Wind Screen 125 with motor reductions

Components	Discount (mm)
Box 125 profile	X - 6
Opening 125 Profile	X - 6
Front guide	Y - 128
Rear guide 33.40 mm	Y - 128
Rack guide profile 26x13.50 mm	Y - 140
Bottom weight 53x28 mm	X - 80
Axle ø100 mm	X - 91
Brush Ref. 69-1000	X - 6
Rubber seal 18x15 mm	X - 71
Bottom weight plate 25x10 mm	X - 107

4.4 Wind Screen 150 with motor reductions

Components	Discount (mm)
Box 150 profile	X - 10
Opening 150 Profile	X - 10
Front guide	Y - 153
Rear guide 33.40 mm	Y - 153
Rack guide profile 26x13.50 mm	Y - 165
Bottom weight 53x28 mm	X - 80
Axle ø120 mm	X - 91
Brush Ref. 69-1000	X - 10
Rubber seal 18x15 mm	X - 74
Bottom weight plate 25x10 mm	X - 110

4.5 Wind Screen 85 material manufacturing measurements

Dimensions	mm
Height	+270
Width with motor without zip	-51
Width with motor with zip	-37

4.6 Wind Screen 105 material manufacturing measurements

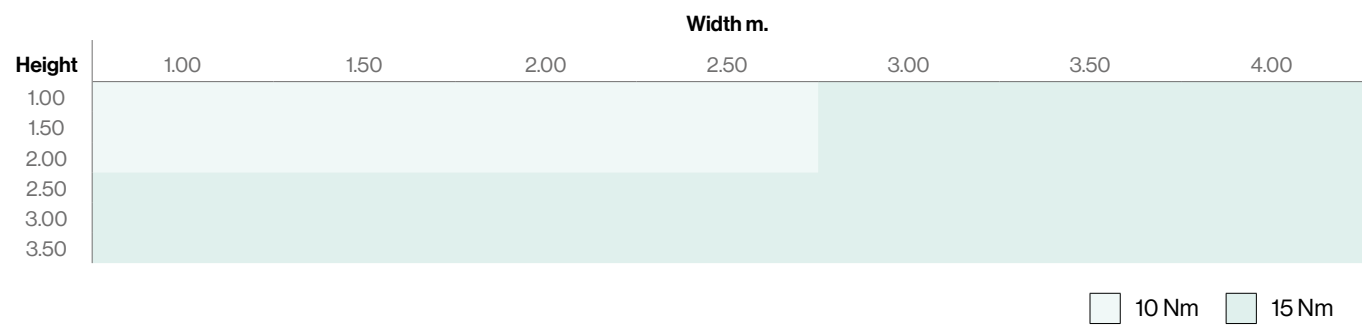
Dimensions	mm
Height	+330
Width with motor without zip	-51
Width with motor with zip	-37

4.9 Motor selection according to dimensions

Wind Screen 85 • Motor selection according to axle ø60 mm



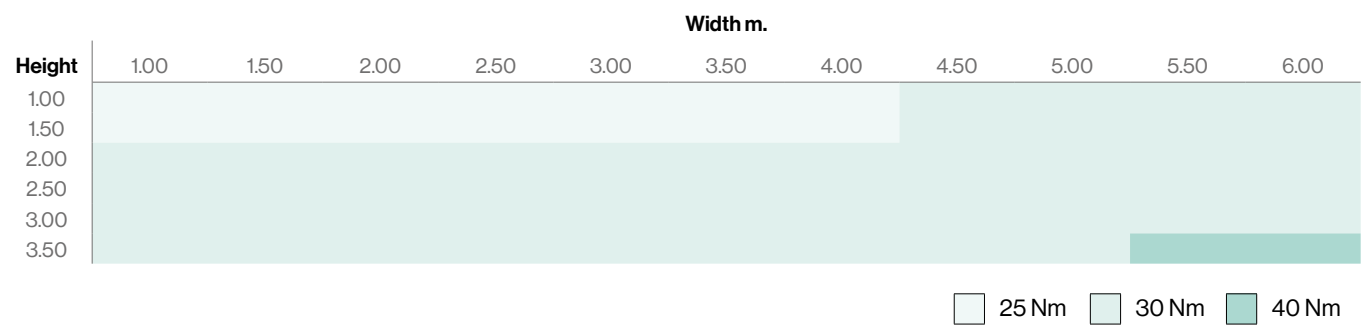
Wind Screen 105 • Motor selection according to axle ø80 mm



Wind Screen 125 • Motor selection according to axle ø100 mm



Wind Screen 150 • Motor selection according to axle ø120 mm



5. Assembly instructions

5.1 Axle preparation

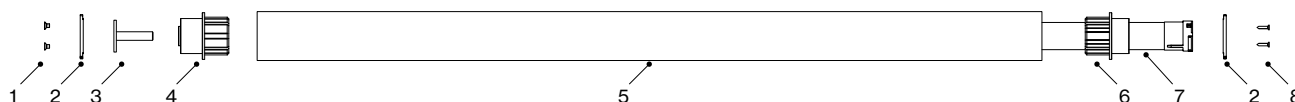
Important

The axle will be configured depending on the size of the Wind Screen and the actuator system.

The exploded views below show the different parts required. The tables include the parts and the numbers of items required, following the assembly sequence from left to right.

The drawings are schematic to better identify the part order. When starting to assemble, it will be necessary to insert the fabric onto the axle before beginning to assemble the remaining parts.

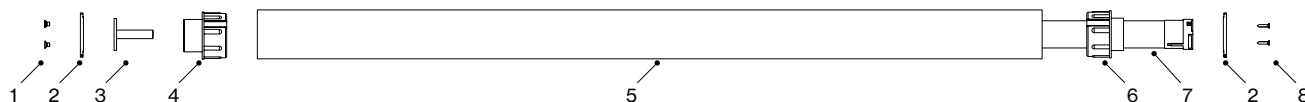
5.1.1 Wind Screen 85 with motor



Components

Nº Description	ud.	Nº Description	ud.
1 Screw DIN 7991 M6x8 mm	2	5 Axle ø60 mm	1
2 Set end cap plates	1	6 Motor cap LT40 - Axe ø60	1
3 Pivot bracket 14 mm	1	7 Motor Somfy	1
4 Hollow cap 14 mm	2	8 Screw 4x12mm	2

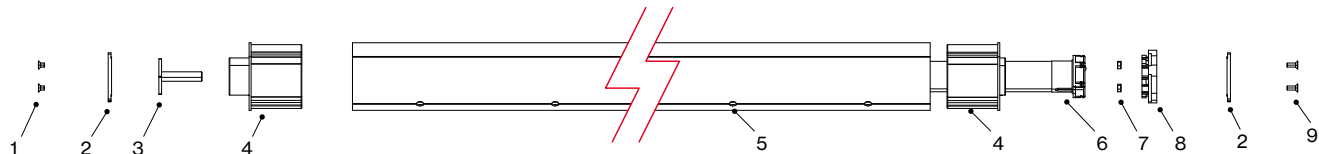
5.1.2 Wind Screen 105 with motor



Components

Nº Description	ud.	Nº Description	ud.
1 Screw DIN 965 M6x12	2	5 Axle ø80 mm	1
2 Set end cap plates	1	6 Motor 50 cap	1
3 Pivot bracket 14 mm	1	7 Motor Somfy	1
4 Hollow cap 14 mm	2	8 Screw DIN 7982 4.80x19 mm	2

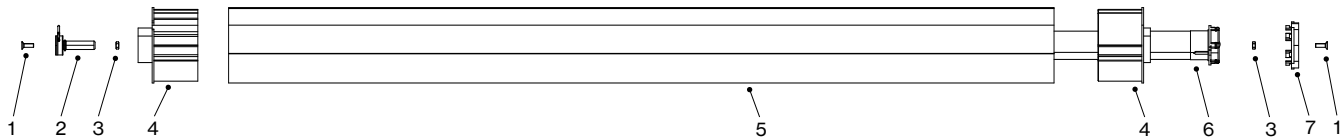
5.1.3 Wind Screen 125 with motor



Components

N°	Description	ud.	N°	Description	ud.
1	Screw DIN 7991 M6x8 mm	2	6	Motor Somfy	1
2	Set end cap plates	1	7	Nut DIN 934 A2M6	2
3	Pivot bracket 14 mm	1	8	Universal support Somfy	1
4	Cap set WS 125	1	9	Screw DIN 7991 M6x16 mm	2
5	Axle ø100 mm	1			

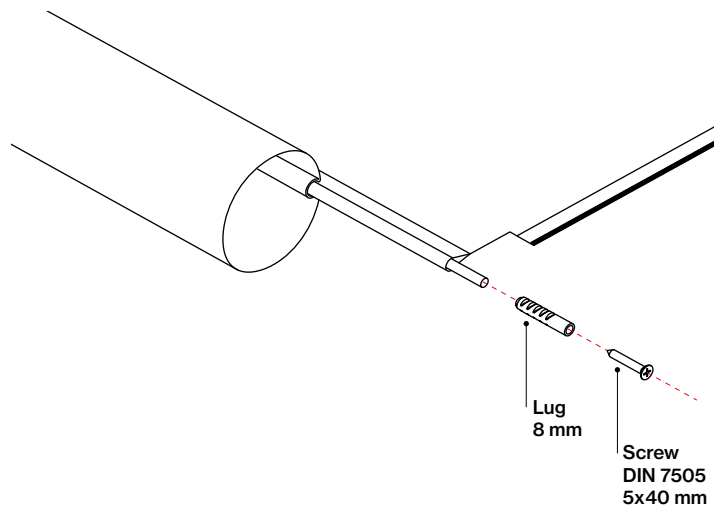
5.1.4 Wind Screen 150 with motor



Components

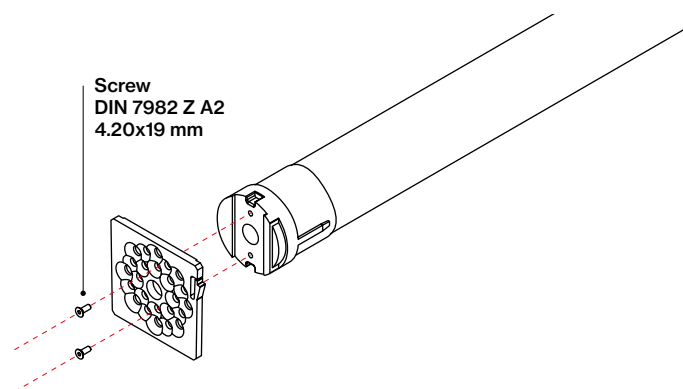
N°	Description	ud.	N°	Description	ud.
1	Screw DIN 7991 M6x12 mm	4	5	Axle ø120 mm	1
2	Pivot bracket 14 mm	1	6	Motor Somfy	1
3	Nut DIN 934 A2M6	4	7	Universal support Somfy	1
4	Cap set WS 150	1			

5.2 Box assembly

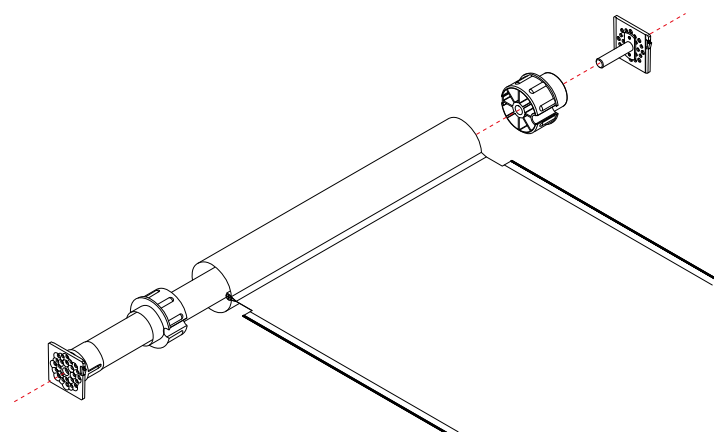
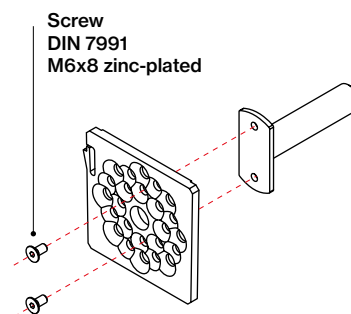


Cut two pieces of the cord, equivalent to the length of a lug.

Insert the fabric into the axle and fasten it using a lug and a screw.



Fasten the different devices (motor, pivot, crank handle...) to the side plates. Take into account their position before fixing them.



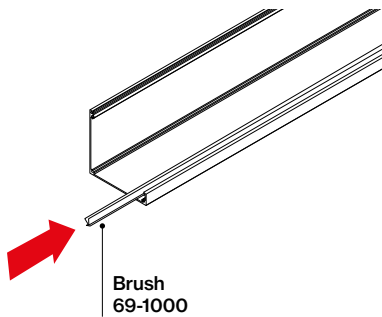
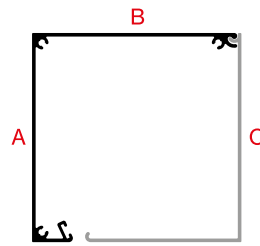
Finish the assembly on the axle as shown in the image.

! Important

If the Wind Screen is provided with a motor, it will be necessary to consider the outlet for the cable.

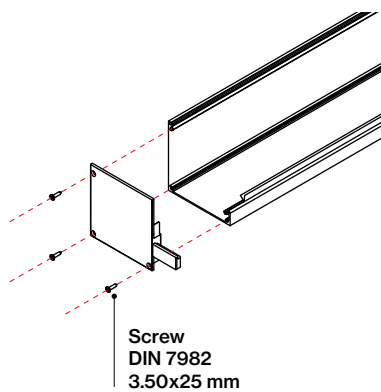
Drill a hole for the cable outlet before starting the assembly.

Consider the motor cable outlet before placing the motor on the side plate.



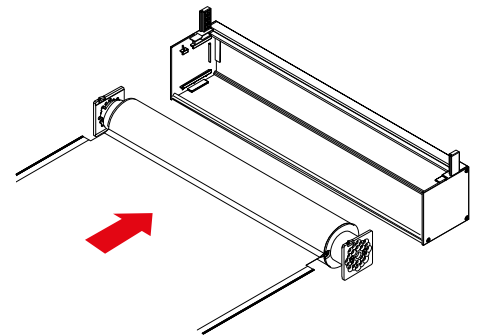
Brush
69-1000

Insert the mat in the box profile.



Screw
DIN 7982
3.50x25 mm

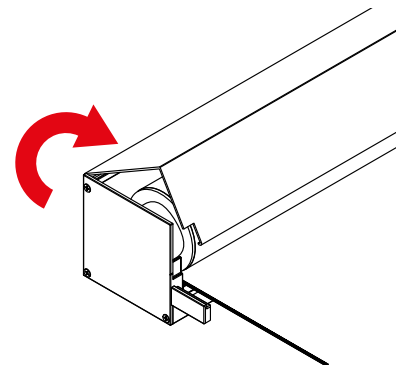
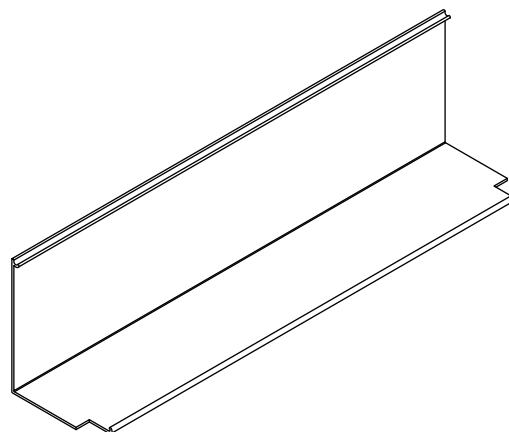
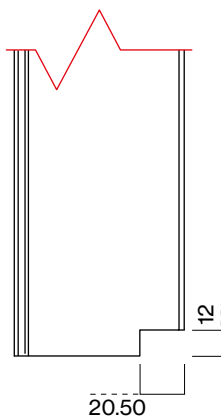
Join the end cap to the box profile. Fasten using the screws.



Insert the previously prepared axle in the box.

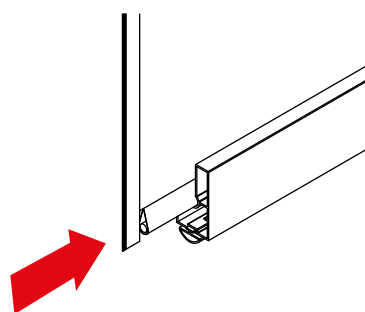
Insert the side plates in the end caps rails until they click into place.

Cut the opening profile side at both ends. Follow the dimensions noted.



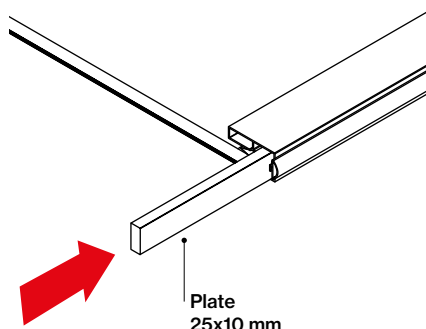
Lastly, close the box as shown in the image.

5.3 Bottom weight assembly

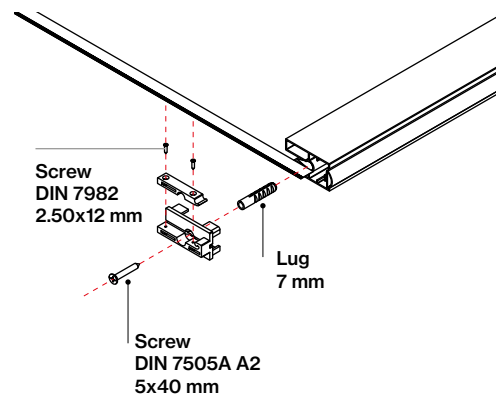


Insert the previously manufactured fabric in the bottom weight through the ogive.

Also insert the bottom weight rubber.



Insert the plate 25x10 mm (counterweight) in the lower housing of the bottom weight.

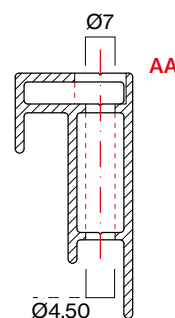


Assemble the cap with the bottom weight. Insert the lug and fasten the screw. Then, join both parts of the cap using two screws.

5.4 Guide preparation

The guides are integrated by three profiles, two in aluminium and a third one in PVC. To join them, the front guide will be drilled and a screw DIN 912 A2 M4x25 mm will be inserted.

The table and the formulae will be used to obtain the number of screws and the distance between holes. The first hole on each end will be drilled at 150 mm from the end. The rest will be drilled at the distance obtained with the formula.



Ø4.50

! Important

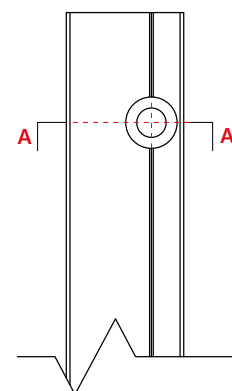
Never exceed the maximum distance between holes, which is 580 mm.

Calculation of screws and distance

Lt	Total guide length
D	Distance between screws
cte	850
n	Number of screws
R	Round up

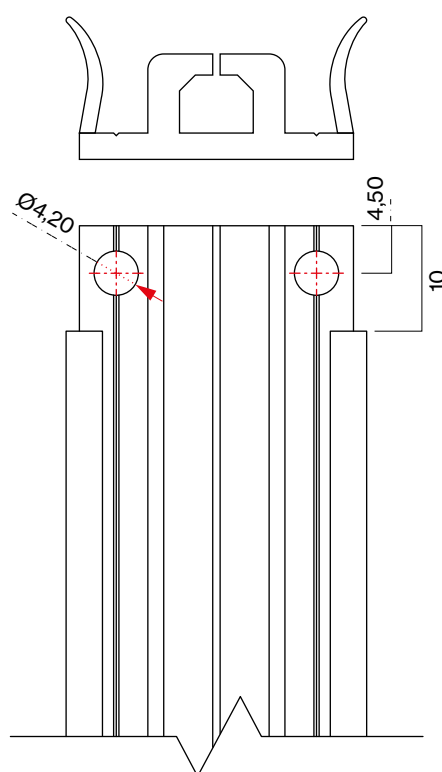
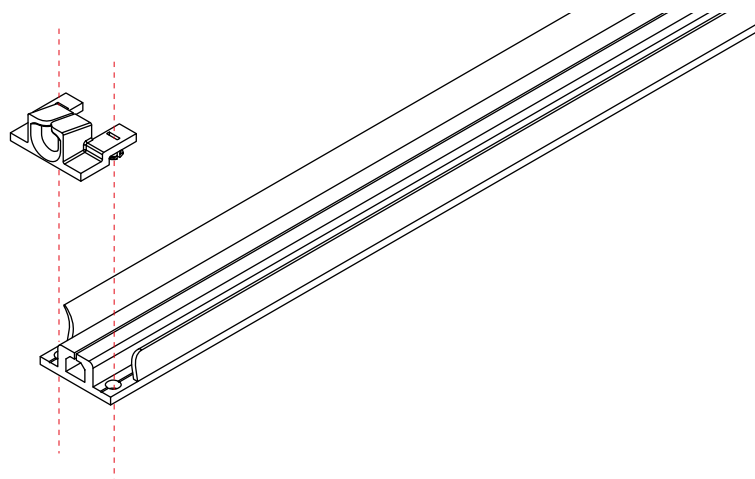
$$n = \frac{Lt - (150 \times 2)}{cte} + 1 = \text{result R}$$

$$D = \frac{Lt - (150 \times 2)}{n - 1}$$

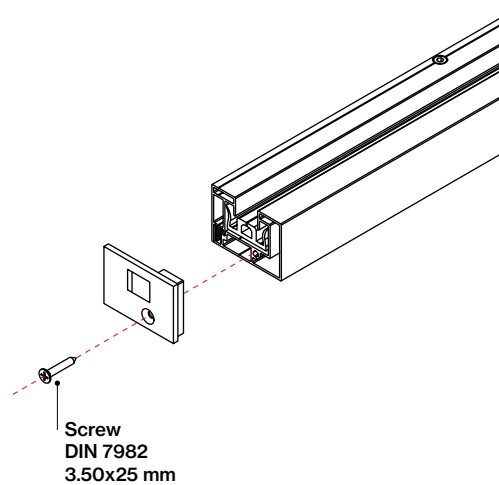
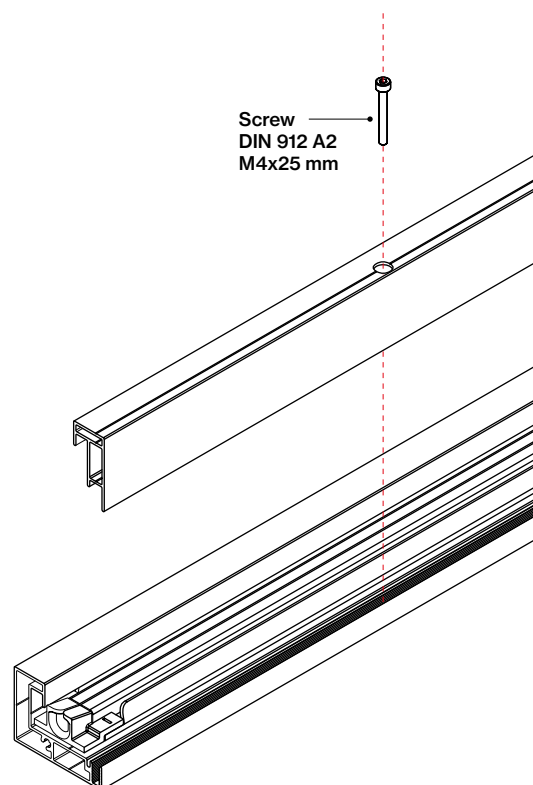


Remove 10 mm of rubber from the PVC guides in order to drill the holes at the indicated distance.

After drilling the holes, insert the funnel that comes in the terminal-guide kit.



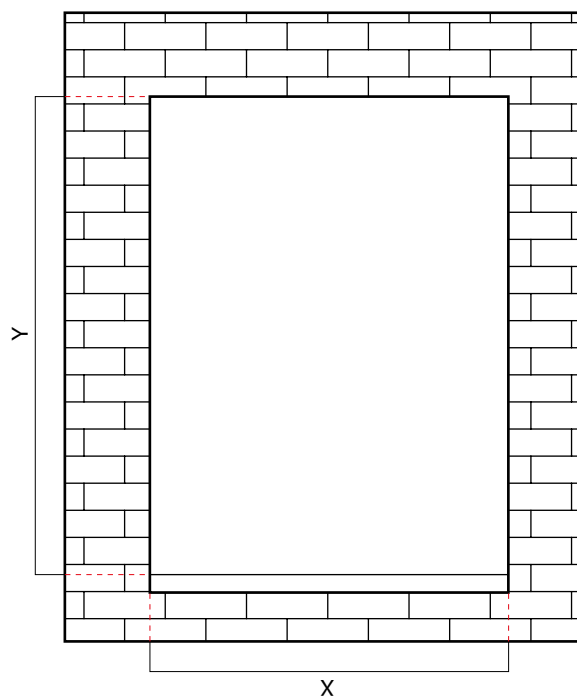
Insert the PVC guide in the rear aluminium guide. Then, place the front guide on top of it and fasten both parts with screws.



Fasten the lower cover on the lower part of the guide using the screws. This cover is provided in the bottom weight-guide kit.

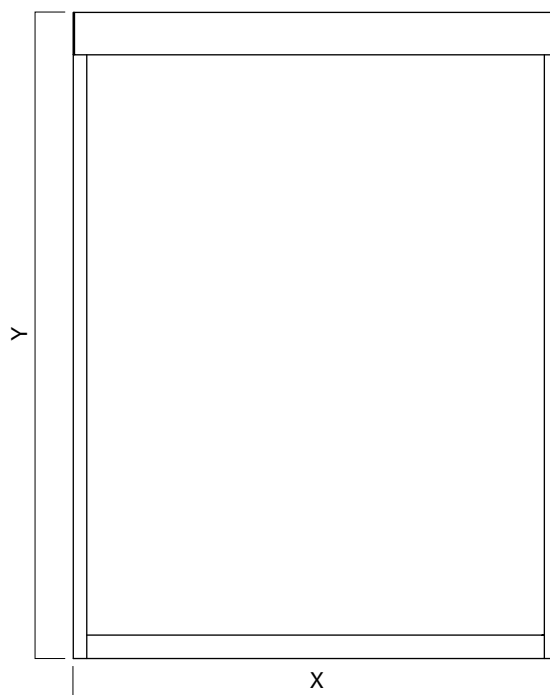
6. Installation instructions

6.1 On-site installation



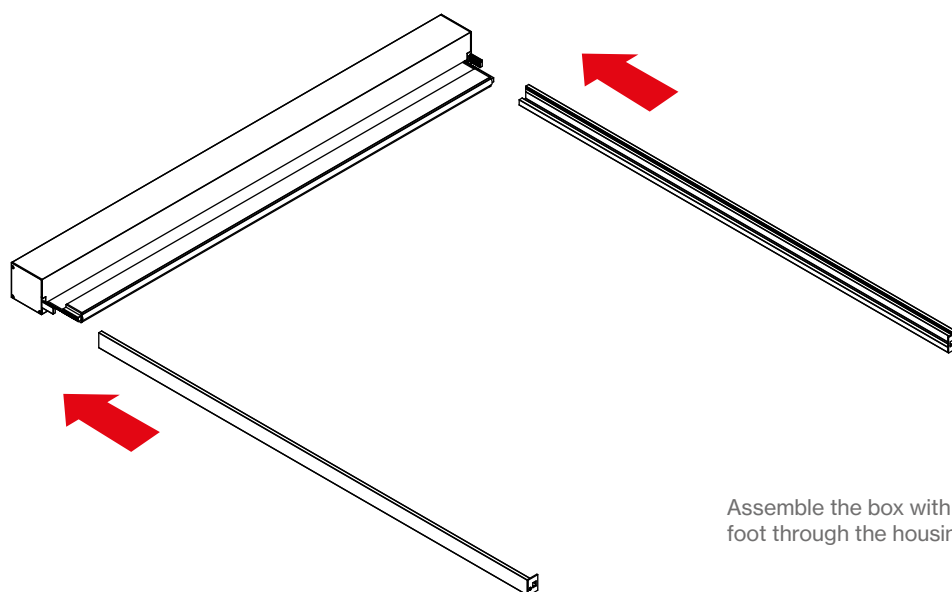
Verify the dimensions of the installation place.

X = Width total (mm)
Y = Height total (mm)



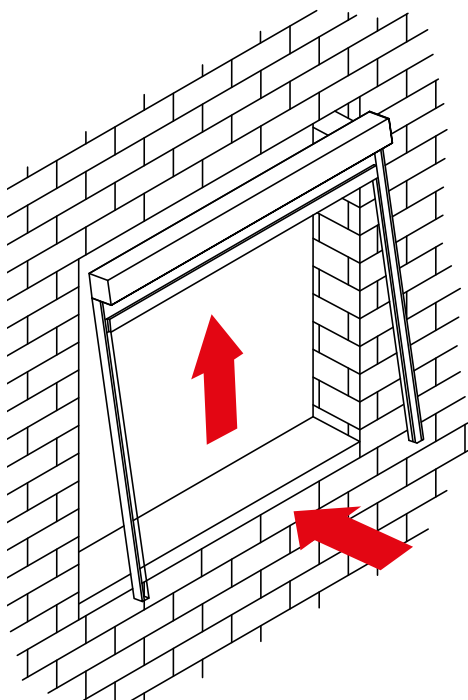
Check the dimensions of the product before installation. Verify that they are correct.

X = Width total (mm)
Y = Height total (mm)

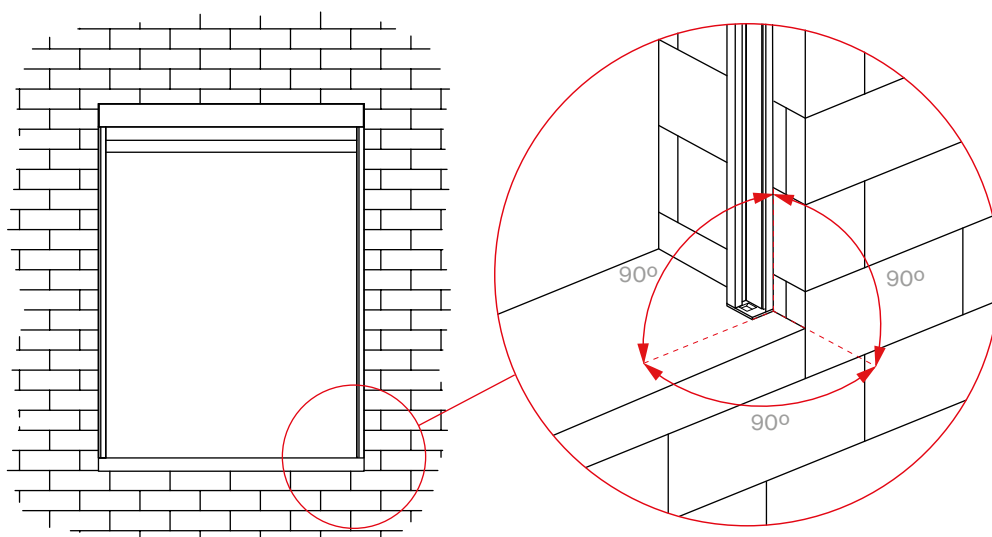


Assemble the box with the rear guides. Insert the end cap foot through the housing in the rear guide.

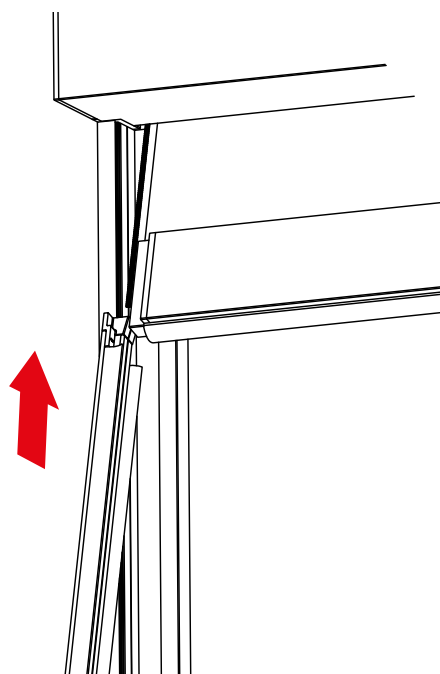
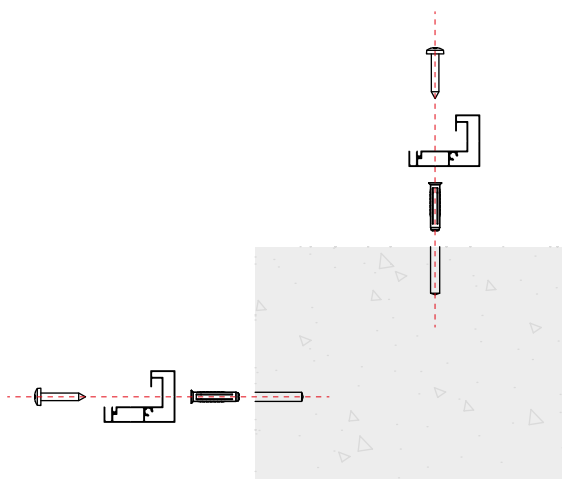
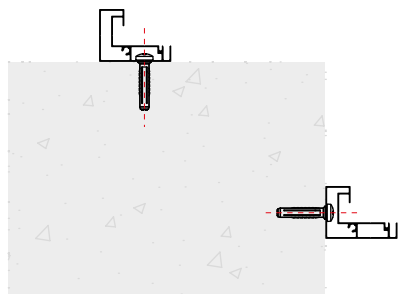
Position the product in the place where it is going to be installed.



Check that the product is correctly levelled and square in all positions.

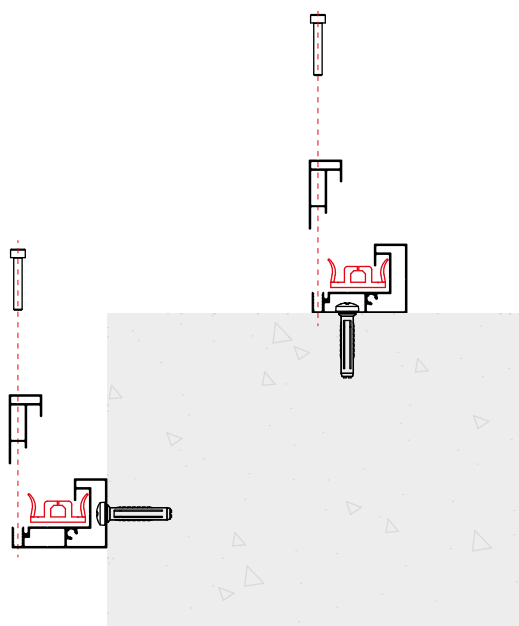
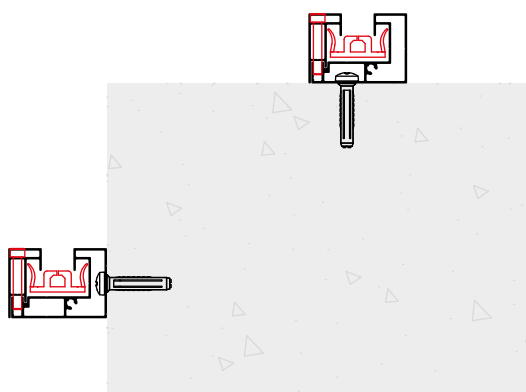


Fasten the systems through the guides. Take into account the type of wall when choosing the anchoring system.



Insert the rack profile through the PVC 26x13.50 mm guide and position it on the rear guiding profile.

To finish the installation, join the two parts of the aluminium guide using screws DIN 912 A2 M4x25 mm. The rear guide with the front guide.

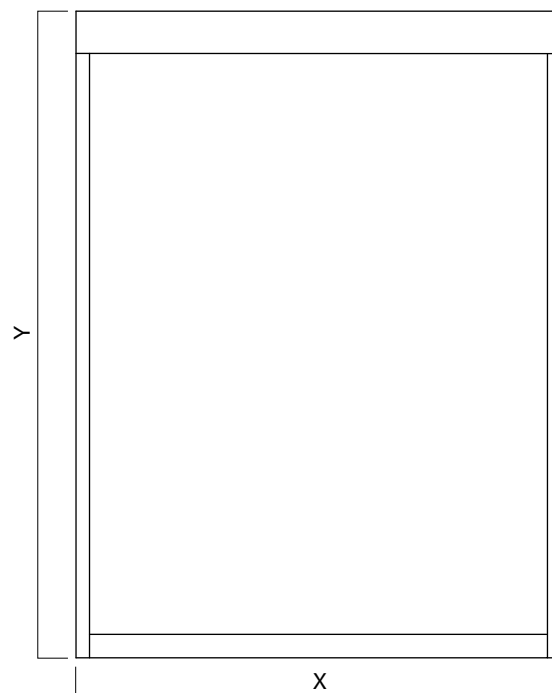
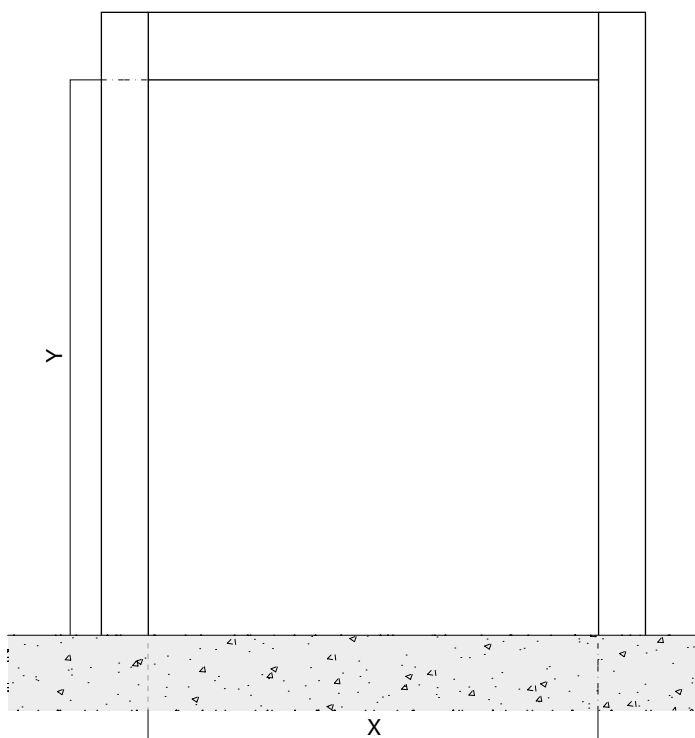


6.2 Installation on pergola

Verify the dimensions of the pergola side where it is going to be installed.

X = Total width (mm)

Y = Total height (mm)

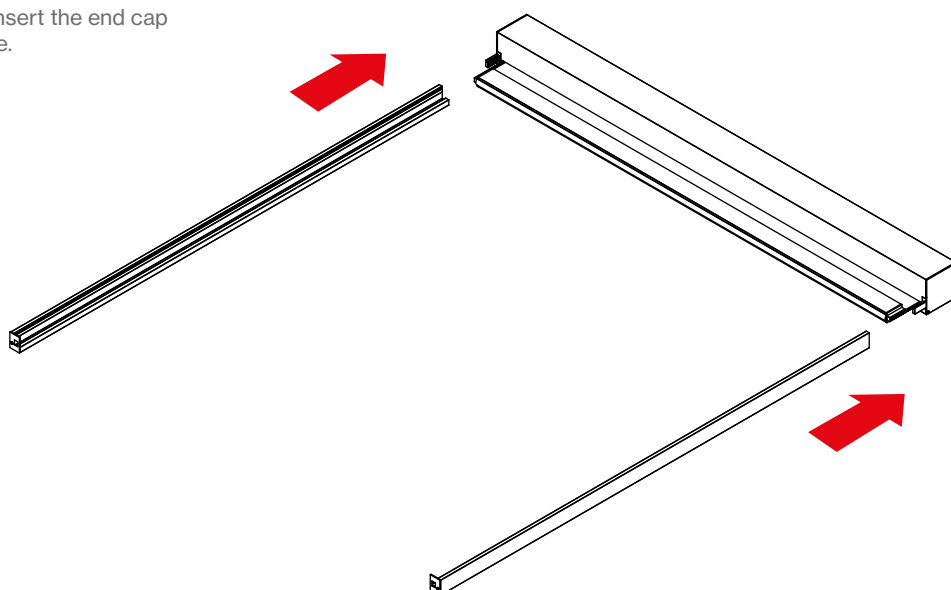


Check the dimensions of the product before installation. Verify that they are correct.

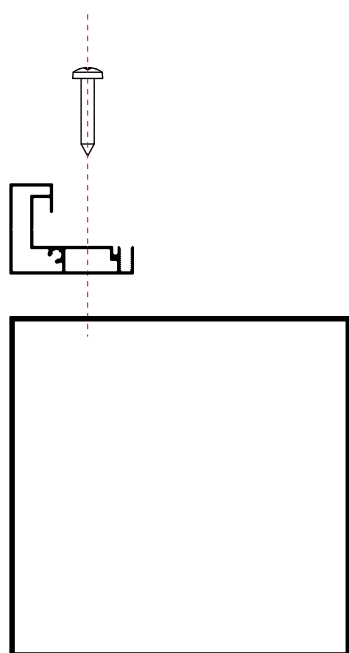
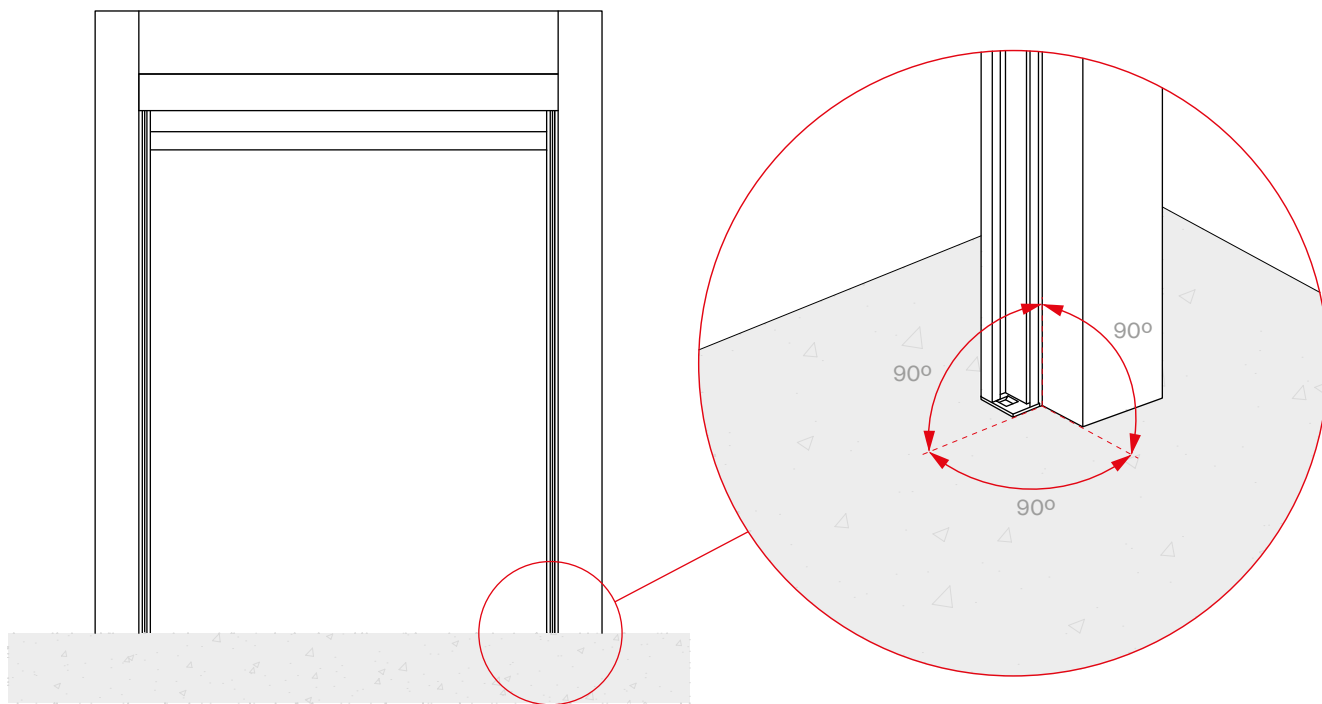
X = Total width (mm)

Y = Total height (mm)

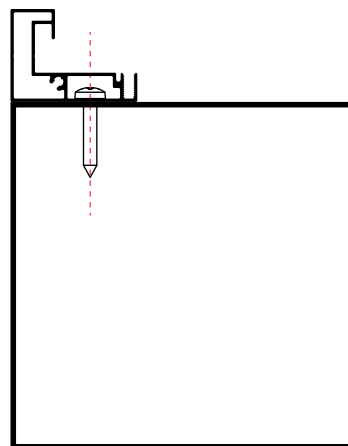
Assemble the box with the rear guides. Insert the end cap foot through the housing in the rear guide.

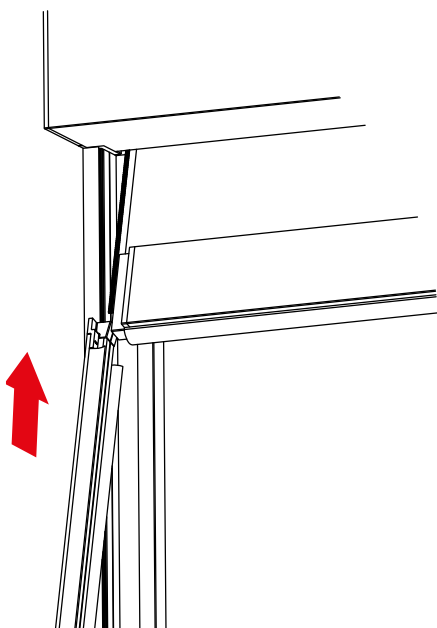


Check that the product is correctly levelled and square in all positions.



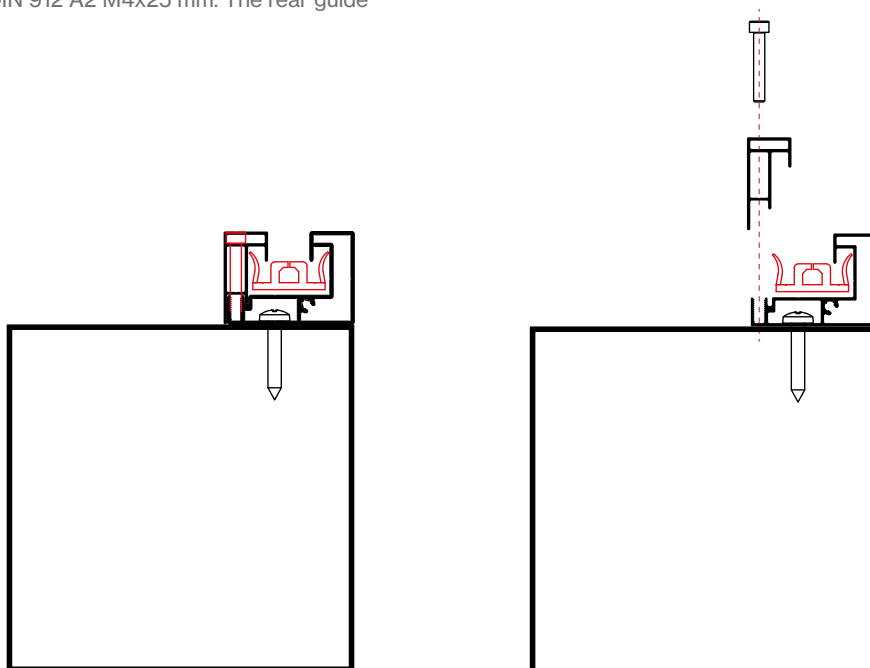
Fasten the systems through the guides. For an installation on a pergola it is recommended to use self-tapping screws.





Insert the rack profile through the PVC 26x13.50 mm guide and position it on the rear guiding profile.

To finish the installation, join the two parts of the aluminium guide using screws DIN 912 A2 M4x25 mm. The rear guide with the front guide.

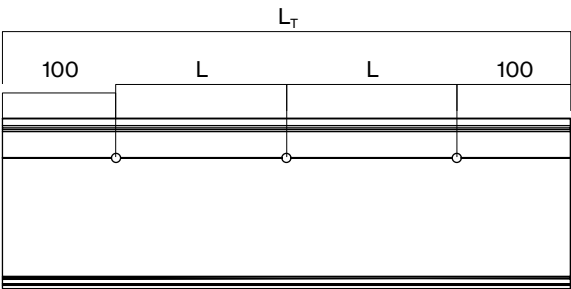


6.3 Dante wind screen box 150 installation

Drill the holes in the profile at an appropriate distance, according to what is indicated in the table.
Can be fixed to the wall and the ceiling.

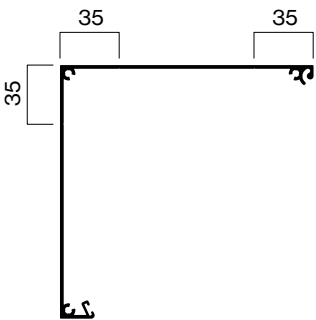
LT = Overall lenght

$$L = \frac{Lt - (100 \times 2)}{N^{\circ} \text{ of holes} - 1}$$



Distance fixed holes

N°	Line mm		
	0 - 3000	3001 - 4500	4501 - 6000
	2	3	4



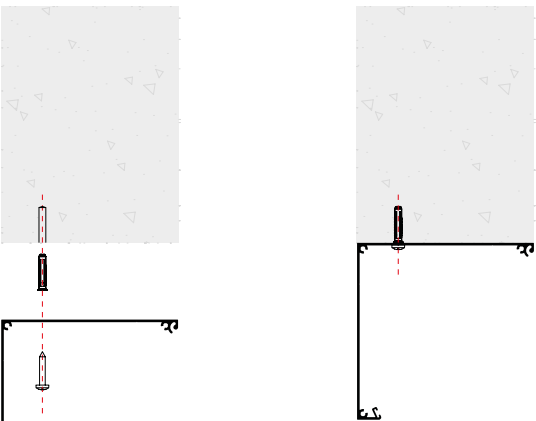
Once the holes have been drilled in the 150 box profile and in the site/structure where it will be installed, it must be fastened onto it. Use the appropriate fasteners to secure the system.

! Important

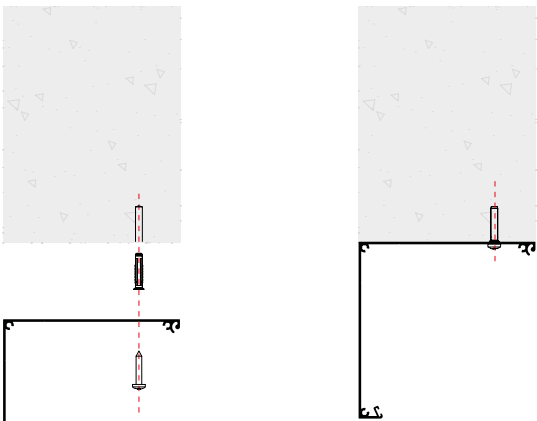
Always attach the box to the site/structure where it is being installed. Use the appropriate fasteners to secure the system.

Fasteners not supplied.

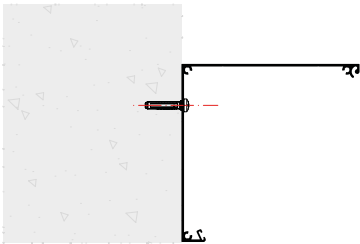
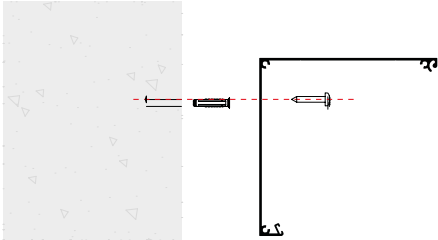
Option 1
Ceiling



Option 2
Ceiling



Option 2
Wall



7. Wind resistance (UNE-EN 13659)

Classes	V-0	V-1	V-2	V-3	V-4	V-5	V-6
Nominal pressure test pa (N/m ²)	<50	50	70	100	170	270	400
Safety pressure 1,5 pa (N/m ²)	<75	75	100	150	250	400	600
Nominal speed (km/h)	<33	≈ 33	≈ 38	≈ 46	≈ 60	≈ 76	≈ 92
Safe speed (km/h)	<40	≈ 40	≈ 46	≈ 56	≈ 78	≈ 92	≈ 112

Classes	Height m	Width m	Class
Test result	3,50 m	4,00	V-5
	3,50 m	4,00	V-5

8. Maintenance

8.1 *Cleaning and care*

For best use and extended durability of the screen, it is recommended to carry out regular maintenance and checks at least once a year, or even more often depending on the wear and tear caused by wind at the installation site.

To prevent rusting, periodic cleaning of gutters and profiles using neutral soap is recommended. This should be done at least once a year and more frequently for materials exposed to aggressive atmospheric conditions (marine, industrial, airborne dust, etc.) It is important to thoroughly rinse the products with water after using detergents to clean them, to avoid the build-up of salts on the profiles' surfaces.

This periodic cleaning, if done correctly, removes exogenous agents from the material's surface that may attack their covering and aluminium components, prolonging the lifespan of the profiles and maintaining their appealing aesthetic.

To clean the canvas, we recommend removing the dust that has accumulated without using water, to enable you to remove all the surface particles by vacuuming, air blowing, beating or brushing.

If you wish to remove finger or grease marks, use water with neutral soap. If they are water-based marks, clean them with at most a sponge and rub with a damp cloth.

NEVER use detergents or other chemical products.

Finally, the user must bear in mind the need to check the tightness of the screws in accordance with the tightening torques.

Annex I

What to do in case of emergency

Problem	Causes	Solutions
The fabric moves to one side	Badly levelled screen	Level correctly
The terminal does not lower	Thermal motor protection	Insert the guides correctly
The motor ceases to work after several minutes of continuous use	Thermal motor protection	Allow the motor to cool down for a few minutes

Annex II

Motor configuration

1. Introduction

2. Safety

2.1 Safety and responsibility

2.2 Specific safety regulations

3. Installation

3.1 Motor preparation

3.2. Tube preparation.

3.3. Motor - tube installation.

3.4. Tube - motor set assembly.

4. Cables

5. Start-up

5.1. Identification of the setting steps already performed.

5.2. Prior registration of Somfy io local control point.

5.3. Motor rotation direction check.

5.4. Limit switch setting.

6. Use

6.1. Standard use.

6.2. Use with a Somfy io sensor.

7. Additional settings

7.1. Favourite position ("My").

7.2. Addition or deletion of control points and local control point.

7.3. Modification of limit switches.

7.4. Advanced functions.

8. Tips and tricks

8.1. Do you have any questions about the Sunea screen io?

8.2. Replacing a lost or damaged Somfy io control point.

8.3. Restoring to original settings.

9. Technical data

1. Introduction

The Sunea Screen io motor has been designed for all types of screens with side arms, as well as vertical screens that do or do not have a cassette.

What is io-homecontrol®?

The Sunea screen io uses io-homecontrol®, a new, safe and wireless communication protocol used by the top manufacturers in the home furnishing sector. The io-homecontrol® technology allows communication and control using a single control point and comes with all kinds of accessories for comfort and safety.

The flexibility and perfect compatibility of the io-homecontrol® system allow it to adapt to the ever-changing needs of the customer. Automatisation of the rolling and main entrance shutters, the exterior screens, the portico and the garage door to garden lighting, all thanks to the io-homecontrol® system.

The ever-growing range of accessories are compatible with the existing installation thanks to io-homecontrol® technology, that guarantees their interoperability.

For further information, consult the website www.io-homecontrol.com

2. Safety

2.1 Safety and responsibility

Before installing and using the product, read this guide carefully.

A property motorisation and automatisisation professional must carry out the installation of this Somfy product. This guide is directed at such professionals.

The installer must also comply with the standards and regulations in force in the country of installation and must inform their clients of the terms and conditions of use and maintenance of the product.

Any use differing from the application established by Somfy shall be considered prohibited use. This, along with any breach of the instructions contained in this guide, shall lead to the exemption of Somfy from any responsibility and guarantee.

Before its installation, check the compatibility of this product with the associated equipment and accessories.

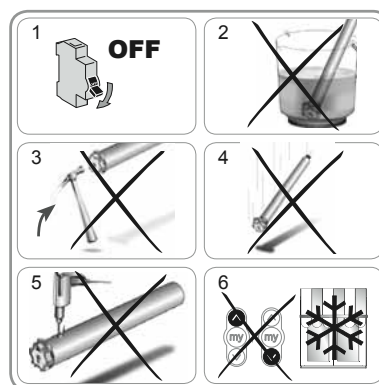
2.2 Specific safety regulations

In addition to the safety standards described in this guide, the instructions detailed in the attached document, titled "Safety standards that must be respected and conserved" must be followed.

1. Cut the electrical power to the screen before performing any maintenance procedures. .

To avoid damaging the motor:

2. Do not submerge
3. Avoid knocks.
4. Avoid dropping.
5. Do not drill.
6. Avoid operation in the case of formation of ice on the screen.

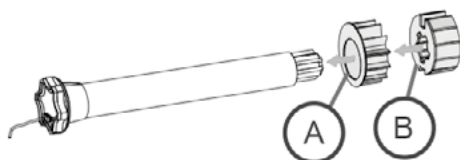


3. Installation

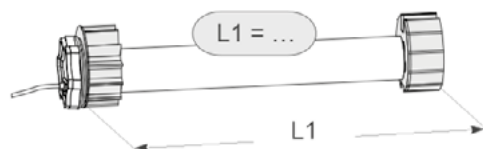
The Sunea io must be installed in a location that is protected from the elements.

3.1 Motor preparation

1. Insert crown (A) and wheel (B) into the motor.

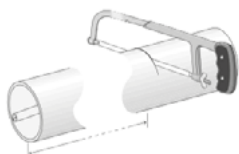


2. Measure the length (L1) between the inner edge of the motor head and the end of the wheel.

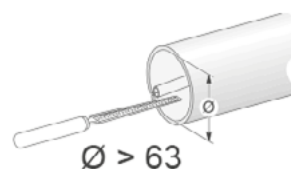


3.2. Tube preparation.

1. Cut the tube to the required length..



2. Remove burrs and chips from the rolling tube.



3.3. Motor - tube installation.

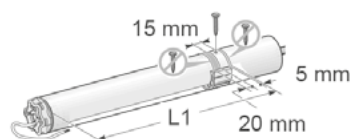


1. Insert the motor into the roller tube.



Important

The screws or Pop rivets must not be attached to the motor, just to the wheel..



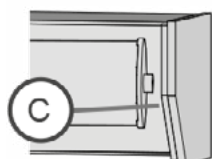
2. For safety reasons, secure the roller tube to the wheel using 4 x $\varnothing 5$ mm Parker screws or 4 x $\varnothing 4.80$ mm steel:

- Pop rivets, located at least 5 mm from the outer end of the wheel (L1 - 5) and
- at most 15 mm from the outer end of the wheel (L1 - 15).

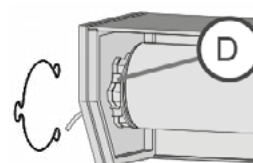
3.4. Tube - motor set assembly.

Mount the end to the tube.

3.4.1 Star head motor

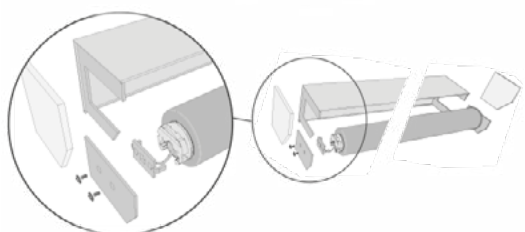


Install the tube - motor set onto end bracket C.



Install the tube - motor set onto motor bracket D.

3.4.2 Round head motor



Attach the bracket to the motor head and then the movable locking element.



Insert the set of movable tube-motor-locking elements into the end plate.

4. Cables

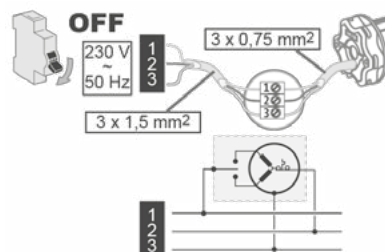
! Important

Always make a loop in the power cable to avoid water penetrating the motor. During installation, comply with the standards and legislation in force.

1. Cut the electrical power



2. Connect the motor as per the information in the following table



230 V - 50 Hz	Motor cable
1 Brown	Phase (P)
2 Blue	Neutral (N)
3 Green-Yellow	Earth (⊥)

5. Start-up

This guide only describes the start-up process with a Situo io type Somfy io local control point. For start-up with any other type of io control point, consult the relevant guide.

5.1. Identification of the setting steps already performed.

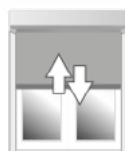
! Important

Only one motor must be powered at a time..

Provide power and follow process “a” or “b” according to the actions of the screen:

A) The screen moves slightly

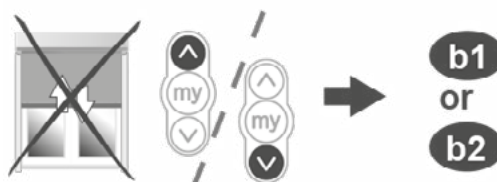
The limit switches are set and there is no Somfy io control point registered. Continue to the chapter titled “Registration of first Somfy io local control point”.



➔ Registration of the first Somfy io local control point.

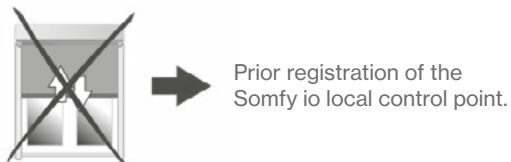
B) The screen does not move

Press the raising or lowering button and carry out process “b1” or “b2” according to the actions of the screen:

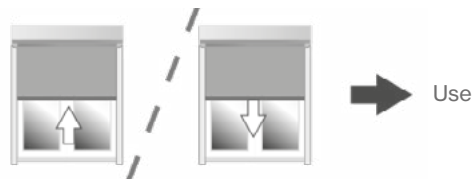


b1) The screen still does not move

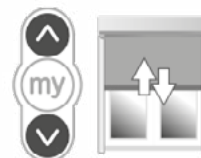
The limit switches are not set and there is no Somfy io control point registered. Continue to the chapter titled "Prior registration of the Somfy io local control point".

**b2) The screen raises and lowers completely**

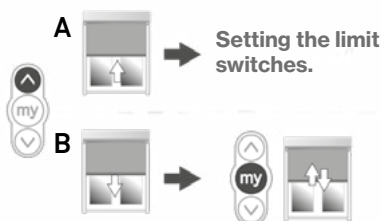
The limit switches are not set and there is no Somfy io control point registered. Continue with chapter titled "Use".

**5.2. Prior registration of Somfy io local control point.**

Simultaneously press the raising and lowering switches: the screen will move briefly. The Somfy io local control point will have been registered in the motor.

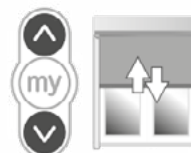
**5.3. Motor rotation direction check.****Motor rotation direction check**

Press the raising button on the Somfy io local control point:



A) If the screen raises, the rotation direction is correct. Continue to the "Limit switch setting" chapter.

B) If the screen lowers, the rotation direction is incorrect: press the "My" button until the screen moves. The rotation direction will have changed.



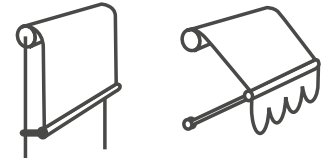
Press the raising button to check the rotation direction.

5.4. Limit switch setting.

The limit switch settings depend on the type of screen.

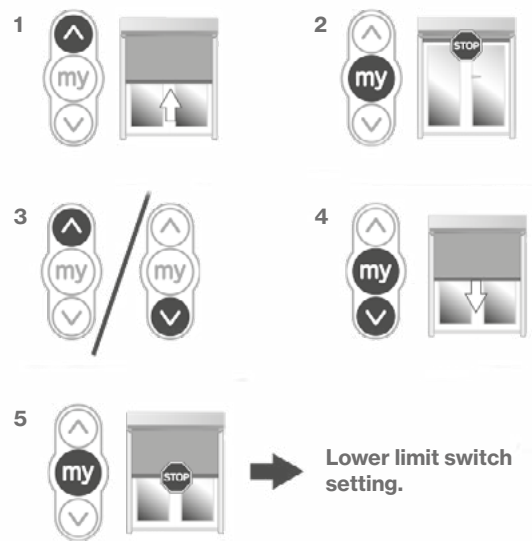
Settings for vertical screens without top stops and screens with side arms

For vertical screens with no top stop or screens with side arms without end caps, the upper and lower limit switches must be set.



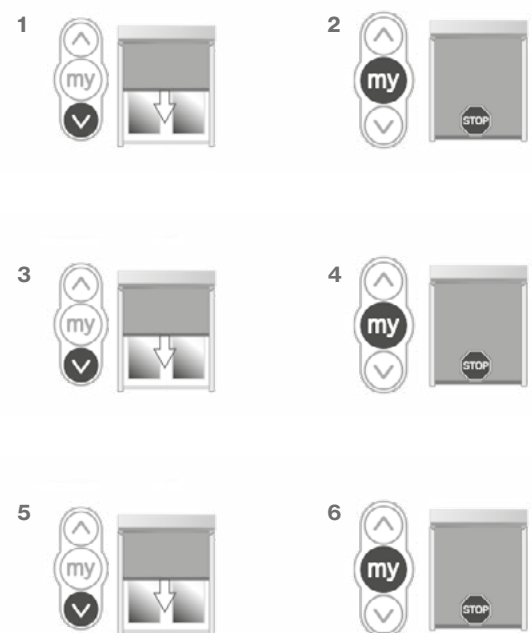
Upper limit switch setting

1. Place the screen in the upper limit switch position.
If the raising button is pressed for > 2 s, the screen will roll up continuously.
2. Stop the screen in the desired position.
3. If necessary, adjust the position of the screen using the raising and lowering buttons.
4. Simultaneously press the “My” and lowering buttons: the screen will lower continuously even after you stop pressing the “My” and lowering buttons.
5. At mid position, briefly press the “My” button to stop the screen and proceed to the chapter entitled “Setting the lower limit switch”.



Lower limit switch setting

1. Position the screen in the lower limit switch position.
If the raising button is pressed for > 2 s, the screen will roll down continuously.
2. Stop the screen in the desired position.
3. If necessary, adjust the position of the screen using the raising and lowering buttons.
4. Simultaneously press the “My” and raising buttons: the screen will raise continuously even after you stop pressing the “My” and raising buttons.
5. At mid position, briefly press the “My” button to stop the screen.
6. Press the “My” button again until the screen moves: the limit switches are now registered. Continue to the chapter titled “Registration of first Somfy io local control point”.



Setting for vertical screens with top stop only

In the case of screens with a top stop (stopping the loading bar on the end plate), the upper limit switch sets automatically while the lower limit switch sets.

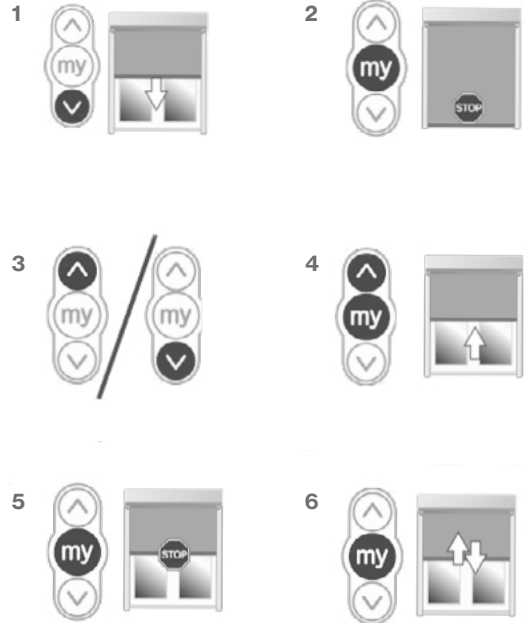
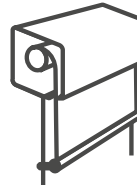
Lower limit switch setting

Do not use the “My” and lowering buttons simultaneously to reach the lower limit switch.

1. Position the screen in the lower limit switch position.
If the lowering button is pressed for > 2 s, the screen will roll down continuously.
2. Stop the screen in the desired position.
3. If necessary, adjust the position of the screen using the raising and lowering buttons.
4. Simultaneously press the “My” and raising buttons: the screen will roll up continuously even after you stop pressing the “My” and raising buttons.
5. At mid position, briefly press the “My” button to stop the screen.
6. Press the “My” button again until the screen moves: the limit switches are now registered, continue to the chapter entitled “Registration of the first Somfy io local control point”.

Settings check

Check the settings of the upper and lower limit switches with the Somfy io local control point.



6. Use

6.1. Standard use.

1. Favourite position (“My”)

Definition

The motor can register an intermediate position named “favourite position (My)” that is different to the upper and lower limit positions.

To register, modify or delete the favourite position (“My”), consult the “Additional settings” chapter.

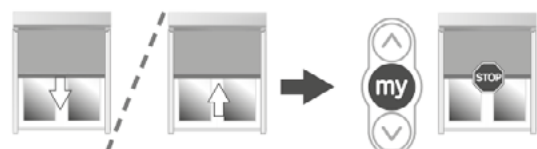
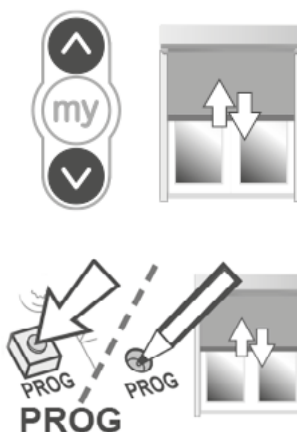
To use the favourite position (“My”):
Briefly press the “My” button: the screen will start moving and will stop in the favourite position (“My”).

2. STOP Function

The screen is moving. Briefly press the “My” button: the screen stops automatically.

3. Raising and lowering buttons

If you briefly press the raising or lowering button, the screen raises or lowers completely.



6.2. Use with a Somfy io sensor

1. Use with a Somfy io solar sensor (Sunis WireFree™ io)

Consult the relevant guide.

2. Use with a Somfy io wind sensor (Sunis Eolis WireFree™ io)

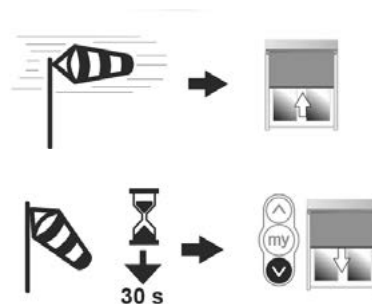
Consult the guide for the Somfy io wind sensor for further information about its use.

3. Behaviour of the screen in windy conditions

When conditions are windy, the screen will start to move to reach the upper limit switch. It is impossible to impede the raising of the screen and make it lower itself while conditions are windy.

4. Behaviour of the screen in non-windy conditions

Once the wind stops, the control point can transmit a manual descent command after 30 seconds. Notwithstanding, all the automatisations will still remain blocked for 11 more minutes.



5. Feedback

After each order, the Sunea io sends a message. This response is handled by the bidirectional io control points.

7. Additional settings

7.1. Favourite position ("My").

1. Registering or modifying the favourite position ("My")

The processes of registering and modifying the favourite position ("My") are the same.

- 1) Place the screen in the favourite position ("My") desired.
- 2) Press the "My" button until the screen moves: the favourite position ("My") will be registered.



1.1 Deleting the favourite position ("My")

- 1) Press the "My" button: the screen will start moving and will stop in the favourite position (My).
- 2) Press the button again until the screen moves: the favourite position ("My") will be registered.

7.2. Addition or deletion of control points and local control point.

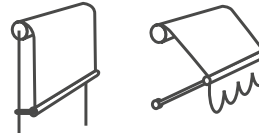
Consult the relevant guide..

7.3. Modification of limit switches.

The modification of the limit switches depends on the type of screen.

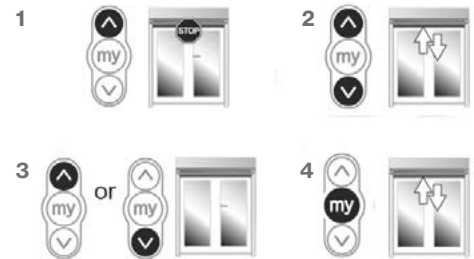
7.3.1 Modification of vertical screens without top stops and screens with side arms

In the case of vertical screens without top stops or screens with side arms without end caps, the 2 limit switches can be modified.



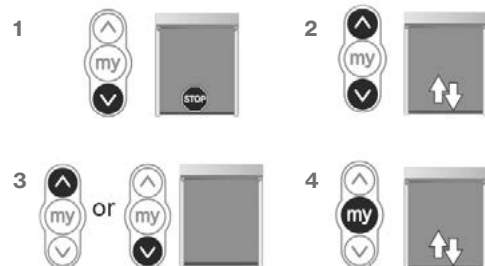
Resetting the upper limit switch

- 1) Place the screen in the upper limit switch position.
- 2) Press the raising and lowering buttons simultaneously until the screen moves: the motor is now in setting mode.
- 3) Set the upper position of the screen using the raising and lowering buttons.
- 4) Press the "My" button again until the screen moves: the new upper limit switch has been registered.



Resetting the lower limit switch

- 1) Place the screen in the lower limit switch position.
- 2) Press the raising and lowering buttons simultaneously until the screen moves: the motor is now in setting mode.
- 3) Adjust the lower position of the screen using the raising and lowering buttons.
- 4) Press the "My" button again until the screen moves: the new lower limit switch has been registered.



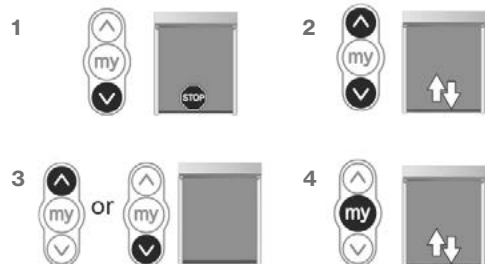
7.3.2 Modification for vertical screens with top stops only

In the case of screens with top stops (stopping the loading bar on the end plate), the upper limit switch is automatically set while the lower limit switch can be changed.



Resetting the lower limit switch

- 1) Place the screen in the lower limit switch position.
- 2) Press the raising and lowering buttons simultaneously until the screen moves: the motor is now in setting mode.
- 3) Adjust the lower position of the screen using the raising and lowering buttons.
- 4) Press the "My" button again until the screen moves: the new lower limit switch has been registered.



7.4. Advanced functions.

4. Advanced Functions

Contact the screen manufacturer before using these functions to check the compatibility of its installation.



7.4.1 The “Back release” function, for vertical screens with top stop only

This function allows the tension in the canvas to be released after closing screens with upper stops (stopping the loading bar on the end plate).

The procedure for activating or deactivating “Back release” is the same.

For safety reasons, this function can only be activated or deactivated using the control point in 3 cases:

- After the 2 s stop confirming the settings and before recording the first Somfy io control point.
- After recording the first Somfy io control point and during the following 4 cycles.
- After a cutting-off of power supply and during the next 4 cycles.

To install this function:

- 1) Place the screen in the upper limit switch position.
- 2) Simultaneously press the “My” and lowering buttons until the screen moves.

- The “Back release” function is activated if it is inactive.
- The “Back release” function is deactivated if it is active.



7.4.2 The “Closing force” function, for vertical screens with top stops only

This function allows the user to increase or reduce the force of the loading bar on the end plate on 3 levels (high-medium-low).

By default, the motor comes from the factory at the medium level.

For safety reasons, this function can only be accessed from the Somfy io control point in 3 cases:

After the 2 s stop confirming the settings and before recording the first Somfy io control point.

After recording the first Somfy io control point and during the following 4 cycles.

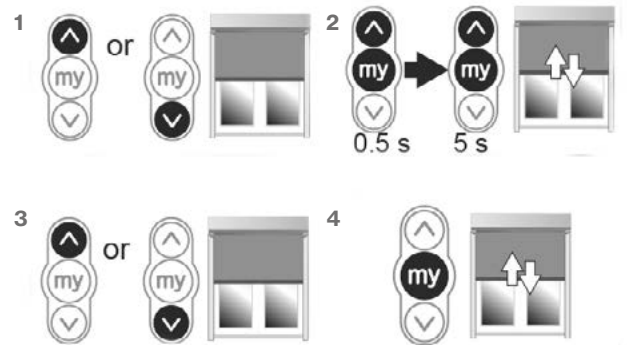
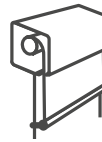
After a cutting-off of power supply and during the next 4 cycles.

To install this function:

- 1) Place the screen in the middle position.
- 2) Briefly and simultaneously press the “My” button and the raising button followed by a simultaneous sustained pressing of the “My” and raise buttons until the screen moves.

The motor is in programming mode for only 10 s.

- 3) Set the closing force using the raising and lowering buttons.
 - To increase the closing force, press the raising button until the screen moves slowly: the closing force of the cassette screen moves up a level.
 - To reduce the closing force, press the down button until the screen moves slowly: the closing force of the cassette screen moves down a level.
- 4) Press the “My” button again until the screen moves: the new closing force has been registered.



8. Tips and tricks

8.1. Do you have any questions about the Sunea screen io?

Problem	Possible causes	Solutions
The fabric moves to one side	The cabling is incorrect	Check the cabling and modify it if necessary
	The motor is too hot	Wait for the motor to cool down.
	The cable used is incorrect	Check the cable used and make sure it has 3 wires
	The Somfy io control point battery needs replacing	Check the battery and change it if a new battery is needed..
	The control point is incompatible.	Check compatibility and change the control point if necessary.
The terminal does not lower	The io control point used is not stored in the motor.	Use the registered control point or register this control point.
	The crown is positioned incorrectly.	Mount the crown correctly.
	The limit switches are incorrectly programmed.	Set the limit switches again.

8.2. Replacing a lost or damaged Somfy io control point.

Consult the relevant guide.

! Important

The double power cut-out should only be carried out on the motor to be reset.

8.3. Restoring to original settings.

This restoration eliminates all RTS command points, RTS sensors, all limit switch settings and resets the direction of rotation and the favourite position ("My") of the engine. Therefore, the configuration of the advanced functions ("Back impulse") will be maintained.

1) Place the screen in the middle position (if possible).

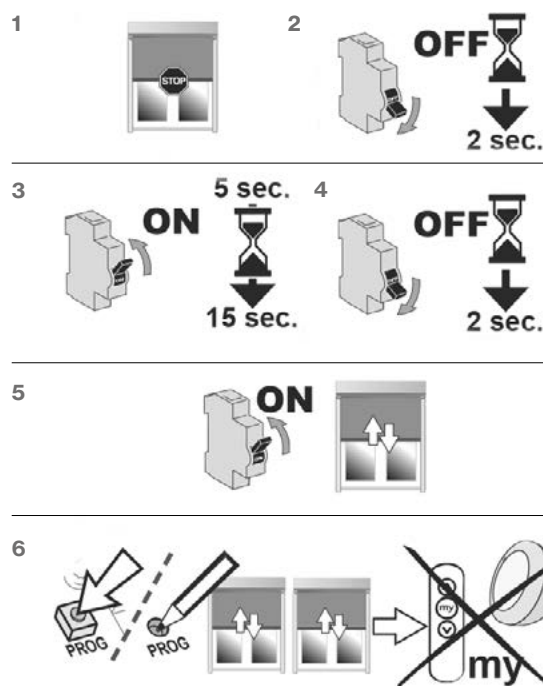
2) Disconnect the electrical power source for 2 seconds.

3) Re-connect the electrical power source for between 5 and 15 seconds.

4) Disconnect the electrical power source for 2 seconds.

5) Re-connect the electrical power source: the screen will move for a few seconds.
If the screen is in the upper or lower limit switch position, it will move briefly.

6) Keep the PROG button pressed down: the screen makes an initial movement and another a few moments later. The motor has now reverted its the factory configurations.
- Repeat the process detailed in the chapter entitled "Start-up" chapter.



9. *Technical data*

Radio frequency	868-870 MHz io-homecontrol® bidirectional triband
Power source	230 V ~ 50 Hz
Use temperature	-20 °C to +70 °C
Protection index	IP 44
Maximum number of control points and associated sensors	9
Security level	Class I

Disassembly and disposal of the packaging and components of the product at the end of its useful life

Disposal of packaging

Important

The packaging must be recycled by the authorised professional who installed the product.

We advise you to recycle the product packaging responsibly:

- Please dispose of this waste in accordance with the current regulations:
 - Directive 94/62/EC on packaging and packaging waste.
 - Spanish Law 11/1997 of April 24th on packaging and packaging waste.
- Please sort the waste by separating each and every one of the various materials, to facilitate effective disposal of the packaging.
- Do not dispose of packaging materials together with other types of waste. Take them to a packaging materials collection point designated by the local authorities.
- In order to minimise the environmental impact of packaging and packaging waste, it is necessary to define the composition and nature of the packaging of our products to recommend their best disposal.

Paper and cardboard:

In waste management, the recycling of paper and cardboard plays an important role, because up to 70% can be reclaimed. The disposal of paper and cardboard can be done through various channels such as collection by private operators or delivery to waste treatment plants.

Plastic:

The recycling of plastics has many advantages for the environment and therefore benefits the quality of life of everyone, contributing to a greater saving of raw materials as well as natural, energy producing and economic resources. The disposal of plastic can be done by private operators or delivered to waste treatment plants.

Bubble wrap:

This is made of low density poly-ethylene, which makes it 100 % recyclable. For optimal disposal, please deliver any waste comprising this material to plastic waste treatment plants.

Our commitment to the environment

One of **Saxun's** objectives is to maintain socially responsible behaviour. This commitment to the environment implies continuous improvements in the measures that are adopted to combat climate change.

Promoting responsible care of the environment, complying with the legal and regulatory requirements applicable to our products and promoting energy saving in all our projects are measures that are essential for us to achieve our objectives.

Disassembly and removal of the product

Important

The disassembly of the product at the end of its useful life must be carried out by qualified personnel, and in order to carry it out, the reverse steps that were carried out for its assembly must be performed.

When disassembling this product, a number of precautionary measures must be taken. Observe the following warnings and instructions. Please contact your supplier with any queries.

Disassembly may only be carried out by experienced fitters. This manual is not intended for DIY enthusiasts or installers in training.

For more information on these disassembly instructions, please refer to the chapters regarding installation in this manual that contain diagrams and detailed information.



Warning

Always act with care. Use appropriate tools which are in perfect condition.

• Step 1

Raise the Wind Screen to its upper limit switch position.

• Step 2

Loosen and remove the screws that fix the two parts of the aluminium guide, the rear guide with the front guide.

• Step 3

Remove the front guides.

• Step 4

Remove the rack and pinion profiles from the guides.

• Step 5

Loosen and remove the screws that fix the guides to the wall.

• Step 6

Uncouple and remove the box guides.

• Step 7

Loosen the screws that fix the lower guide covers to the guides, and remove the covers.

• Step 8

Uncouple the opening side from the box.

• Step 9

Loosen and remove the screws that fix the end plates to the box.

• Step 10

Loosen and remove the screws that fix the bracket and the pivot bracket to the end plates.

• Step 11

Uncouple the roller tube.

• Step 12

Remove the mat from the box profile.

• Step 13

Remove the opening capsule, the motor and the motor capsule from the roller tube.

• Step 14

Loosen the screws securing the terminal caps to the terminal and remove the caps.

• Step 15

Remove the plates from the inside of the terminal profile.

• Step 16

Remove the foam from the terminal profile.

• Step 17

Loosen and remove the screws and studs securing the canvas to the terminal profile and uncouple the profile from the canvas.

• Step 18

Finally, loosen and remove the screws and studs that fix the canvas to the roller tube and remove the canvas.



Attention

Make sure that you dispose of all the product's parts according to the nature of the material.

Components	Galvanised Steel	Stainless Steel	Aluminium	WEEE	Plastic	Textile
Profiles			•			
Screws		•				
End caps	•					
End cap plates					•	
Rack and pinion guide profile and rubber foam					•	
Wind Screen guide terminal kit					•	
Axle	•					
Caps	•				•	
Motor		•		•	•	
Motor supports		•	•			
Loading bar caps					•	
Terminal plate	•					
Canvas						•

Our products are mainly made of recyclable materials. It is advisable to be informed about the recycling or disposal systems provided for in the current regulations in your country for this product category.



Important

Always act with care. Please only use suitable tools that are in perfect condition.



This symbol means that the product must not be disposed of together with household waste as it must be collected separately for recovery, reuse or recycling in accordance with local regulations.



In compliance with European Directive 2012/19/EU, waste electrical and electronic equipment (WEEE) can become a serious environmental problem if not managed properly. The Directive provides the general framework valid throughout the European Union for the disposal and re-use of waste electrical and electronic equipment.

At the end of the service life of the electrical or electronic equipment, it must not be thrown away together with other types of waste. They can be delivered to the specific centres regulated for this purpose by the local authorities.

The effective separation of waste will avoid negative consequences for the environment and health that could result from poor waste management or inadequate waste disposal.



Important

By complying with this directive, you will be acting in favour of the environment and will contribute to the conservation of natural resources and the protection of health.

Local regulations may impose significant penalties for illegal disposal of the product.

The materials that our products are made of offer a great variety of environmental advantages



Galvanised steel

Galvanised steel is a type of steel which undergoes a certain treatment, at the end of which it is coated with several layers of zinc which protect it, avoiding oxidation. The recycling of zinc helps reduce demand for new materials and as a result generates considerable energy savings, being a metal that constitutes a very valuable and sustainable resource.

For proper recycling of galvanised steel, it is advisable to visit a metal waste collection centre.



Stainless steel

Stainless steel is an iron alloy containing nickel and chromium to protect against corrosion and rust. Its qualities include resistance to high temperatures and being a particularly strong material. Stainless steel is an infinitely recyclable "green material". Its properties make it ideal for exposure to poor weather conditions.

Therefore, to ensure proper disposal of stainless steel, it is recommended that this material be left at a specialised waste collection centre.



Aluminium

Aluminium recycling guarantees an endless variety of environmental benefits. The use of recycle aluminium saves 95% of the energy used in its production in its raw state, and it can be recycled as many times as desired and is fully recoverable. Therefore, the recycling of aluminium is both technically and economically profitable.

Therefore, to ensure proper disposal of aluminium, it is recommended that this material be left at a specialised waste collection centre..



Cables

The recycling of electrical cables prevents the contamination that can come from these elements. Its re-cycling allows for the subsequent use of the copper, aluminium and brass from the cables, once they are separated from their plastic insulation.

Electrical and electronic waste must be taken to clean points for proper recycling



PET



HDPE



PVC



LDPE



PP



PS



Other

Plastic

Plastic recycling provides a sustainable source of raw material for the industry. Its reuse also significantly reduces environmental problems, as it is a non-biodegradable material.

Recycling reduces energy consumption and CO₂ emissions, thus mitigating pollution and climate change.

There are several types of plastic, so to achieve optimal recycling it is essential to deposit them in clean points where the separation of the different types and their identification will take place.



Textiles

The use of textile waste is essential when we talk about recycling. Reuse of such waste helps to reduce the consumption of water and the gases that are released in the manufacturing process.

In order to encourage the proper disposal of textiles, it is recommended that they be left at a specialised waste centre where the different textile fibres will be separated.

! Important

Follow the recommendations for effective product recycling.
Remember that recycling is more than an action; it is the value of accepting responsibility

saxun
by Giménez Ganga

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