



CONTROL

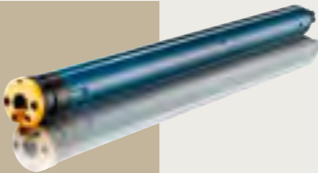
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MOTORS

The motor is a crucial component when automating fabric sun protection. It is therefore very important to make the right choice for a reliable solution tailored to your needs. Optimum comfort and user-friendliness are guaranteed with all motors.

Mechanical Somfy Motor

The standard tubular motor for every application. Final adjustment is done thanks to a universal setting cable or directly on the motor head. Corded motors can be combined perfectly with a switch or home automation system.



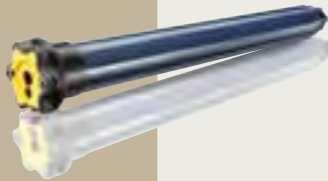
Detecto Renson motor Safety First

With a Detecto Renson motor Safety First, the obstacle detection not only ensures optimum protection for the fabric sun protection but also provides continuous fabric tensioning. The motor also distinguishes between an obstacle and a gust of wind and automatically adjusts the end points. They can be combined perfectly with a switch or home automation system.



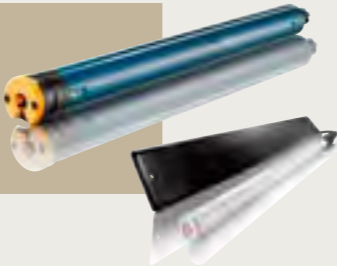
Radio-controlled Somfy IO motor

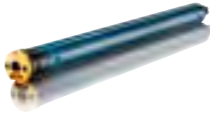


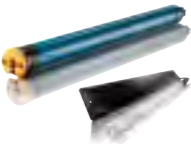
These radio-controlled motors offer all the advantages of existing motors and can be controlled by any IO homecontrol 1-way or 2-way control (via wireless remote control or wall switch or app). These controls also provide visual feedback of the screen position, either on the remote control or in the app. These motors can be set wirelessly.



Radio-controlled Somfy Solar motor

The Solar motor is a radio-controlled IO motor where the battery recharges itself thanks to the durable solar panel. This motor offers all the advantages of radio-controlled motors, i.e. wireless end limit settings and control.



	WIRED MOTORS		RADIO-CONTROLLED SOMFY MOTORS	
	Control via wired wall switch Combines perfectly with switches or home automation systems (Building management systems Legrand, NHC, KNX...)		Control via wireless remote control or wall switch Suitable for app control with Somfy home automation system	
Motor type	Mechanical Somfy Motor	Detecto Renson motor Safety First	Somfy IO Motor	Somfy Solar Motor
				
Connection				
Power Supply	Mains power	Mains power	Mains power	Solar power
Parallel switching 2 or more motors	✓ via relay	✓	✓	✓
Setting end points				
Physical setting on the motor	✓	-	-	-
Setting with remote control	-	-	✓	✓
Setting remotely via Set&Go	-	-	✓	-
Automatic setting via setting cable	-	✓	-	-
Applicability				
Fixscreen	✓	✓	✓	-
Fixscreen Solar	-	-	-	✓
Fixscreen Minimal	-	✓	✓	-
Fixscreen Minimal Solar	-	-	-	✓
Panovista	✓	✓*	✓	-
Panovista Max	✓	-	✓	-
Topfix	✓	-	✓	-
Topfix Max	✓	-	✓	-
Topfix Max F	-	-	✓	-
Vegascreen	✓	-	✓	-
Radio-controlled features				
Motor position feedback (2-way)	-	-	✓	✓
Range	-	-	20 metres through two concrete walls.	20 metres through two concrete walls.
Signal frequency	-	-	868.25 Mhz (Not suitable for use in US, China, Canada or Australia, among others)	868.25 Mhz

* Without obstacle detection

RENSON® CONNECT

with smart Solmate® control

Smart algorithm for optimal indoor climate,
within a user-friendly app



All the advantages of our unique smart screens at a glance:



Smart Control

The unique Solmate algorithm takes into account local weather parameters such as temperature, solar irradiation... as well as personal preferences. Warm weather forecast? Solmate switches the heat off efficiently!



Voice Control

"Hey Google, close all the screens in the living room..." It is sufficient to control the Renson smart screens, also compatible with other Smart Home platforms such as Amazon Alexa and Apple Homekit.



Product Details

What are the exact dimensions of the screens and which fabric type did you choose? In the Renson Connect app, find all relevant product details for checking later.



Multiple locations

Would you like to be able to check the status of the screens when you're away from home? Or change your personal preferences remotely for a second home? It can all be done in the same Renson Connect app thanks to the smart screens.



Configuration easy as 1-2-3

Finished installing the screens and the Somfy TaHoma Switch from the Renson Connect Pack? Then download and configure the Somfy TaHoma app and then the Renson Connect app. Register, log in with the Somfy credentials, and you're good to go.



Tips & Tricks

How does your customer optimally maintain the screens? What to do after an unexpected rain-storm? The Renson Connect app provides regular 'tips & tricks' for a healthy indoor climate, the ideal lifespan and optimal operation of the screens.

! Renson®, your SOLMATE® for a refreshingly cool home

The unique Solmate control, together with the Somfy TaHoma from the Renson Connect Pack, allow screens to be controlled in a fully automatic and smart way. The end user's preferences and most up-to-date cloud data are all Solmate needs for this. Without sensors for outdoor temperature or sun radiation, and without an additional home automation system, screens can therefore be intelligently controlled during renovation or retrofit, as well as for new builds. The user remains in control at all times: you choose which rooms, on which days, and at what time you want the sun protection to operate automatically.

! Availability depending on geographical location !



somfy®

? CONFIGURATION

The Renson® Connect app with smart Solmate control is easy to configure and operate. The application is currently available in combination with all radio-controlled Renson® screens



SENSORS

These sensors monitor your comfort and respond fully automatically based on changes in a specific situation. They do so based on pre-set scenarios, to meet your needs and requirements and/ or based on weather circumstances. Our sensors continue to operate fully autonomously when you're away from home, extending the lifespan of your sun protection. In addition, automated sun protection can reduce your energy consumption by no less than 36%.

Wind sensor

A wind sensor can retract your sun protection depending on a pre-set wind speed. This protects your screen against unexpected strong winds. Our wireless sensor is easy to install and only requires minimum wiring.



Sun sensor

A sun sensor responds to the intensity of the sun and can control your sun protection accordingly. This way, the inside temperature of your home is always kept under control, even when you're away. Our wireless sensor can be used on a façade or on the inside of a window and is easy to install and set up.



Wind & sun sensor

A wind & sun sensor responds to both sun intensity and wind speed.



Choice guide? See page 214



OPERATING METHODS

Comfort is the keyword when it comes to control sun protection screens. You can choose between several different possibilities depending on the local application, accessibility and style of the interior.

Wired wall switch

Thanks to a fixed pressure switch near the screen, you can operate it easily and efficiently. These switches can be surface-mounted or recessed.



Wireless wall switch

Local wireless wall switch powered with batteries. The wireless design allows you to place this switch anywhere you like on the wall. Simply affix the adhesive strip on the back of the switch to the surface.



Wireless remote control

You can operate the sun protection screens without getting out of your chair thanks to this handy and elegant remote control. One remote control can operate various screens at the same time.



Group control by touch

- Group control by touchscreen for easy control.
- Select and control all products by tapping the screen
 - Control the applications individually or in a group
 - Configure the controls according to the layout in your home
 - Create scenarios
 - Operate with natural movements



Smart control with Renson® Connect Solmate®

See page 208



Choice guide? See page 214

CHOICE GUIDE

MOTORS

Local control				
Type of local control	Via wired wall switch (max. 2 per switch)		Via wireless remote control or wall switch	
Couple with sensor(s)?	Coupling with sensors not possible		Coupling with sensors possible	
Obstacle detection	✓	-	-	-
Warranty (year)	7	5	5	7
Result	Detecto RMSF	Somfy Mechanical	Somfy IO	Somfy Solar

Home automation				
Control type	Wired home automation system (KNX, Niko Home Control, Qbus, Loxone...)		Wireless home automation system (Somfy TaHoma) + wireless remote control or wall switch	
Couple with sensor(s)?	Coupling with sensors possible			
Obstacle detection	✓	-	-	-
Warranty (year)	7	5	5	7
Result	Detecto RMSF	Somfy Mechanical	Somfy IO	Somfy Solar



SENSORS & CONTROL

Somfy IO										
SENSOR CHOICE	Couple with sensors?	Yes					No			
	Sensor type	Wind		Sun		Sun + Wind				
	Power supply sensor	Wired (230 V)	Wireless (battery)	Wired (230 V)	Wireless (battery)	Wired (230 V)	Wireless (battery)	-		
	Result	Eolis IO	Eolis Wirefree IO	-	Sunis Wirefree IO	Soliris IO	Sunis IO & Eolis Wirefree IO			
CHOICE OF CONTROL	Number of screens to control	1 screen		2-5 screens		5+ screens		1 screen	2-5 screens	5+ screens
	Wireless remote control	Situo 1 A/M IO		Situo 5 VAR A/M IO		Nina IO		Situo 1 IO	Situo 5 IO	-
	Wireless wall switch	-		-		-		Smooove origin IO / Smooove 1 IO	Smooove 4 origin IO	-
	App control	Renson Connect Solmate (in combination with Somfy TaHoma Switch)								
		Somfy Mechanical								
CHOICE OF CONTROL	Number of screens to control	1 motor or relay				2 motors or relay				
		Surface-mounted		recessed		Surface-mounted		recessed		
	Wall-mounted remote control with fixed zero point (keeps running until end position)	Inis surface-mounted (fixed)		Smooove Uno (fixed)		-		Smooove Duo (fixed)		
	Wall-mounted remote control with automatic zero point (stops when stop is pressed)	Inis surface-mounted (auto)		Smooove Uno (auto)		-		Smooove Duo (auto)		



ACCESSORIES

You already have a wide choice of different types of motors, controls and sensors, all to enhance comfort. Choose extra installation convenience with the following accessories.

Detecto Renson motor Safety First setting cable
Set tubular motors safely and easily with a setting cable. This is suitable for setting tubular motors and resetting the end points if necessary. There are setting cables available for Detecto Renson motor Safety First.



The Set & Go installation tool for IO-homecontrol applications
This handy installation tool allows you to easily set IO motors in combination with your PC, laptop, notebook or tablet with a windows operating system.



Additional cable length
It is possible to extend the motor cable if local conditions require it. The standard cable length is 3 or 5 metres, depending on the motor type. This cable length can be extended to 10 metres for efficient connection to the mains. If the cable length is still not sufficient, a Hirschmann connector can be chosen for a safe and durable connection.



Choice guide? See page 214



GENERAL

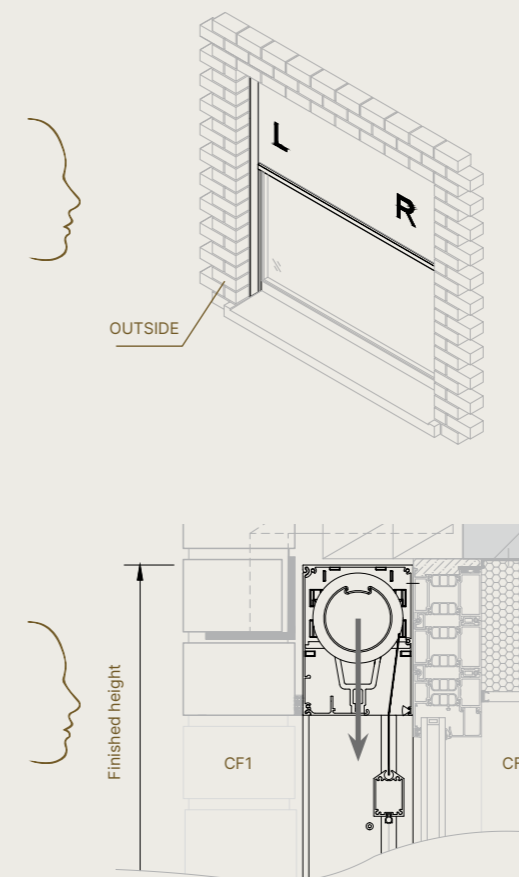
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POSITION CABLE FEED AND CONFECTION SIDE

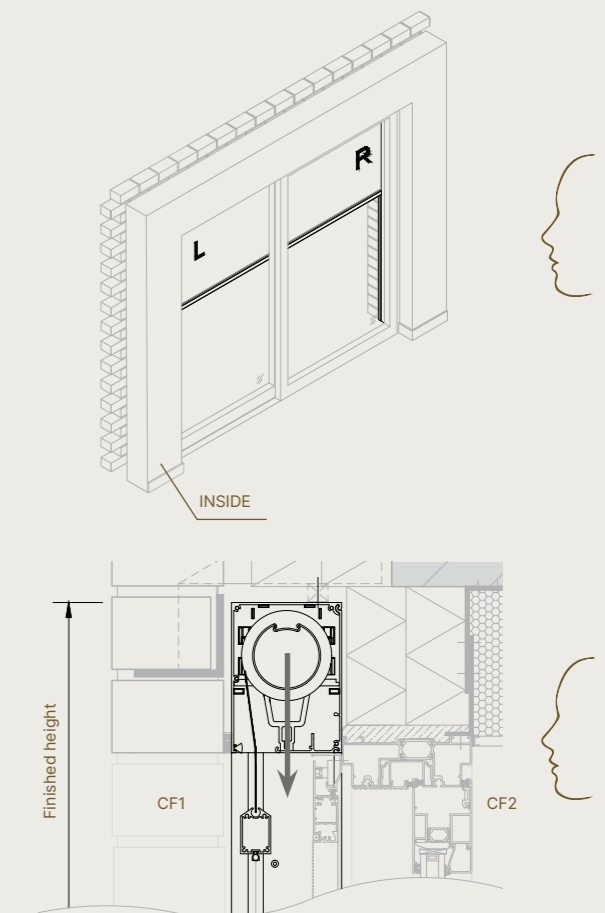
With vertical fabric sun protection, the position of the cable feed depends on the choice of product and the chosen installation method. Each position has a particular code and can be positioned to the left or right as required. The perspective for determining the choice of left or right cable feed is indicated on the technical drawings in our brochure using the following illustration of a face, For the Panovista (Max) corner solution, this perspective also determines the section width on the left or right.

All fabrics have two sides. A small difference can be noticed in the weave of woven fabrics Confection side 1 (CF1) is the top side of the fabric sample in the Renson fabric sampler. This is how the screen fabric appears from the outside. Confection side 2 (CF2) is the bottom side of the fabric sample in the Renson fabric sampler. The confection sides are indicated with CF1 and CF2 on all technical drawings.

Fixscreen® IM 1 (+) (Solar), IM 7A
Fixscreen® Minimal IM 1 (Solar), IM 7A/B, Curtain Wall 50
Panovista® (Max)



Fixscreen® IM 4 / IM 7B
Fixscreen® / Fixvent® Mono AK/UT



HOW DO I MEASURE A SCREEN?

To calculate the price of a screen and place a correct order for a screen, it is extremely important that the dimensions of the screen are correctly measured and entered. Further clarification on the dimensions of the different solutions is provided below.

Single screen for

- Fixscreen IM 1 (Solar) (F), IM 4 & IM 7 (F)
- Fixscreen Minimal IM 1 (Solar) (F)
- Fixscreen/Fixvent Mono AK/UT
- Topfix (VMS)
- Topfix Max (F)
- Vegascreen

Width = the total measured width of the head box, including the side supporting end caps.
Note!
- Allow 2 mm margin for thermal expansion of the head box in case of surface-mounting (IM 1).

Finished height or projection = side guiding channels (incl. base plate) + head box
Note!
- Topfix VMS: Projection = Height Velux module + 140.

Vertical fabric sun protection

FH = Finished height
FH = Side guiding channels + head box

W=Width

Horizontal fabric sun protection

U = Projection

W=Width

Finished height

CF1

CF2

Single screen for

- Fixscreen Minimal IM 7 (F)
- Fixscreen Minimal IM 7 with C.F: See connected screens

Width = the total measured width of the head box, including the side supporting end caps.
Note! The flange width of the side guiding channel type .WF(+)/.WS(+) is therefore not included in the total measured width of the head box. See visual for example of Medium side guiding channels.

Finished height = side guiding channels (incl. base plate) + head box

FH = Finished height
FH = Side guiding channels + head box

W=Width

M

M.WF

M.WF+

M.WS

M.WS+

Flange width

Flange width

Finished height

CF1

CF2

Panovista®(Max)

Single screen for:
- Panovista (Max)

Width = the total measured width of the head box, including the side supporting end caps. In angled solutions, the width is always measured on the window side.

Finished height = side guiding channels (incl. base plate) + head box

FH = Finished height
FH = Side guiding channels + head box

W = Width left

W = Width right

Window side

Width left

Width right

CF2

Coupled or linked screen for

- Fixscreen IM 1, IM 1+, IM 4 & IM 7
- Fixscreen Minimal IM 1 & IM 7
- Fixscreen Minimal IM 7 with C.F
- Topfix (VMS)
- Topfix Max (F)
- Vegascreen
- Fixscreen/Fixvent Mono AK/UT

Width = the total measured width of one part. On the Coupled or connected side, this runs to the centre of the coupling side guiding channel or mounting base.
Note!
- Allow 2 mm margin for thermal expansion of the head box in case of surface-mounting (IM 1).
- Fixscreen Minimal: The flange width of the side guiding channel type .WF(+)/.WS(+) is therefore not included in the total measured width of one part.
- Topfix VMS: Width of intermediate screens = total Velux module width - 4 mm

Finished height or projection = side guiding channels (incl. base plate) + head box
Note!
- Topfix VMS: Projection = Height Velux module + 140.

FH = Finished height or U = projection
Side guiding channels + head box

W = Width

W = Width

Finished height

CF1

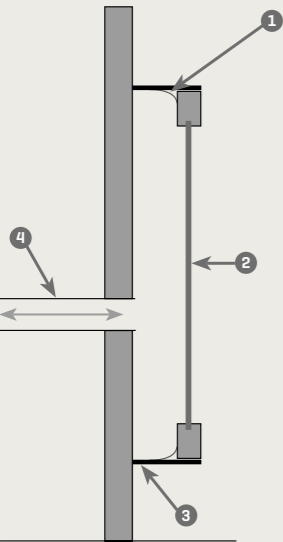
CF2

STANDARD EN13561

This sun protection meets the European standard EN 13561. This standard addresses the performance and safety requirements applicable in construction, transport, installation, control and maintenance. This performance is evaluated based on various tests and/or calculations.

This standard has two objectives:

- 1. Defining the technical performance of the product. This technical performance should allow the safe application of the products to be evaluated.
- 2. Providing the basis for CE marking. CE marking refers only to properties imposed by the regulator when a product is placed on the market. From 1 July 2013, manufacturers are required to provide a Declaration of Performance with CE-marked products. The Declaration of Performance is drawn up by the manufacturer and provides information on the main performance of the product and its intended use.



Vertical section of the wind tunnel:

- 1 Seal
- 2 Sample
- 3 Wind frame
- 4 Connection to a fan ($\geq 10\,000\text{ Pa}$) and measurement of the underpressure and overpressure

Result

The pressure gradually increases. At pressure of 600 Pa, the zip was pulled from the side guiding channel without tearing.

Wind class	Nominal test pressure p (N/m ²)	Safety test pressure 1.5 p (N/m ²)
0	< 40	< 48
1	40	48
2	70	84
3	110	132

Pressure tests: Pressure tests are carried out to determine which wind class sun protection systems belong in (according to EN 13561). This is a test in a wind tunnel in accordance with NBN EN 1932. Underpressure and overpressure on the wind tunnel is simulated using a fan and a system of electrically controlled valves.



335 Pa



max. 600 Pa

Wind tunnel tests

In addition to pressure tests, wind tunnel tests are highly suitable for determining the wind resistance and durability of sun protection systems. Wind tunnel tests are not standardised. But Renson® carries out wind tunnel tests anyway as they provide more truthful results. This forms the basis for the warranties we offer on our products.

In the Fixscreen tests, the sun protection is exposed to wind speeds as high as 130 km/h. This is equivalent to a hurricane force of 12 Beaufort. The fabric remains taut during these wind speeds, there is no gap between the guiding channel and fabric, and the zip stays in the guiding channels.



Non-windproof sun protection at 30 km/h



Fixscreen® at 130 km/h

Beaufort scale				
Beaufort	Description	Average speed in m/s	Average speed in km/h	Effects
0	Calm	0 – 0.2	< 1	You don't feel the wind. Smoke will rise virtually straight up.
1	Light air	0.3 – 1.4	1 – 5	Wind direction can be read from the smoke plume, but not from the weather vane.
2	Light breeze	1.5 – 3.4	6 – 12	Wind can be felt on the face, leaves rustle, the weather vane moves visibly with the wind.
3	Gentle breeze	3.5 – 5.4	13 – 19	Flags wave and leaves move about constantly.
4	Moderate breeze	5.5 – 7.4	20 – 27	Dust blown up irritates eyes. Hair is awry.
5	Fresh breeze	7.5 – 10.4	28 – 37	Bushes rustle, white wave peaks on lakes and canals.
6	Strong breeze	10.5 – 13.4	38-48	Umbrellas are difficult to hold on to, large branches sway, power lines hum
7	High wind, moderate gale, near gale	13.5 – 17.4	49 – 62	It is difficult to walk into the wind. Trees sway.
8	Gale, fresh gale	17.5 – 20.4	63 – 73	Making headway is very difficult. Small branches break off.
9	Strong/severe gale	20.5 – 24.4	74 – 87	Chimney tops, roofing tiles and aerals blow away.
10	Severe storm	24.5 – 28.4	88 – 102	Adults blow over. Major damage to buildings.
11	Major, severe storm	28.5 – 32.4	103 – 117	Major damage to houses and forests.
12	Hurricane	> 32.5	> 118	Total destruction.

WARRANTY

At Renson® we exclusively use high quality materials. This ensures your customer enjoys an extended warranty period on all parts and your peace of mind is guaranteed.

As a manufacturer, we guarantee:

- 5-year product warranty on all defects arising from normal domestic use and provided regular maintenance has been carried out. (Annual maintenance required for Panovista Max.)
- 5-year warranty at gloss level for aluminium profiles.
- 5-year warranty on the Somfy® motors & automation, with the exception of the Solar pack.
- 5-year warranty on fabric collection (2-year warranty on Crystal fabric)
- 5-year warranty on Fixscreen-technology for freestanding Fixscreen applications, Fixscreen Minimal and Topfix Max.
- 7-year warranty on the Fixscreen-technology for Fixscreen, Fixscreen Minimal, Panovista, Topfix (VMS) and Topfix Max - zip remains in side guiding channel - optimal attachment of zip to fabric.
- 7-year warranty Panovista Max technology with annual maintenance.
- 7-year warranty on the Detecto motor and the Somfy Solar pack.
- 10-year warranty on all coatings on the aluminium profiles.

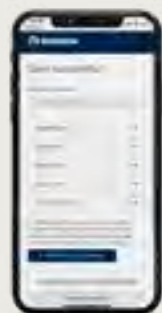
5
YEARS
GENERAL
WARRANTY

7
YEARS
FIXSCREEN
WARRANTY

10
YEARS
COATING
WARRANTY

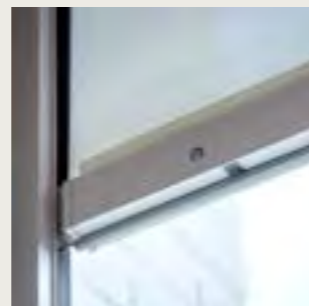
WARRANTY PERIOD

Starts on the date of production and applies only to the product itself, and not to its installation. The warranty is only valid if the product is used and maintained in accordance with the prescriptions contained in the user manual. The warranty is voided if the product is used incorrectly or in an abnormal way. When reporting a problem, always state the warranty number.



warranty and product information now easier to access

To ensure the warranty process runs smoothly, Renson® always asks for your warranty number, Renson® uses this to offer you optimal support. The Renson® warranty number can be found on the guarantee certificate, and also on the unique QR code on the screens. Scan this QR code to find essential product information in an instant.



MAINTENANCE

Fabric sun protections require little maintenance. If used carefully, your sun protection's lifespan can be extended by many years.

A few general directives:

- If the fabric gets wet during an unexpected shower, you can roll it up before lowering it again in better weather to let it dry. Do not allow the fabric to stay rolled up wet for more than three days so as to prevent mould and stains.
- Before cleaning, remove loose dirt with a brush. You can then use a cleaning product (avoid caustic products) and lukewarm water to remove any remaining dirt. Always rinse the fabric after cleaning. Do not clean the fabric in direct sunlight: If soapy water dries too quickly, it may leave stains on the fabric.
- We recommend against the use of high-pressure cleaning devices.
- Do not use abrasive products to clean.
- Hinged or rotating parts should be lubricated annually. A dry lubricant (Teflon) should be used to do so.
- Regularly check your screen for twigs, leaves, etc. and remove them. Maintain this product with due care and attention. As a manufacturer, we recommend a regular technical inspection by the installer: annually for commercial buildings and every two years for sun protection at home.
- For non-aggressive environments, we recommend six-monthly maintenance. For aggressive environments (sea, heavy industry, etc.), we recommend frequent maintenance, around four times a year.
- Always use original parts from the manufacturer.

Maintenance is easy with the Renson® Maintenance Set

- The structure is made using powder coated aluminium. Yearly cleaning with the **Renson® Maintenance Set** will make sure the intense colour of your cover is maintained for years and provides extra protection from acid rain, sea air and UV rays. For coastal and wooded areas, we recommend that you perform maintenance on your products at least twice a year.
- **Renson® 'Clean'** is a concentrated product with strong cleaning and degreasing properties that acts against the most common types of natural dirt, such as dust, oily rainfall, grease stains, moss, insect remains, and so on.
- This product cannot be compared to other cleaning products on the market. It penetrates deeply and 'lifts out' the dirt. Renson 'Clean' can also be used to clean polyester roof fabrics and vertical fibre glass screen fabrics.
- After cleaning, make sure you protect your aluminium structure using **Renson® 'Protect'**. This product leaves a protective film that enables you to clean the surface by simply wiping it down using a small amount of **Renson® 'Clean'**. It also protects the aluminium from acid rain, sea air and UV radiation, and ensures the colour remains just as intense.
- Do not use either product in direct sunlight or in hot weather. The product's quick-drying action can leave stains on the structure or the fabric screen. Do not use corrosive or aggressive products, scouring pads or other scouring products. You should also not pressure-wash your products under any circumstances.



Renson® Maintenance Set

RENSON COLOURS

We offer a wide range of colours. Available as standard in approximately 100 different colours with gloss level 70%, gloss level 30%, or textured coating. This ensures that fabric sun protection always integrates seamlessly with the style of the building. The choice is yours: a glossy or matte version, or a trendy textured coating that is not only wear- and scratch-resistant, but also easy to maintain.

To guarantee the colourfastness of the coating, we recommend Seaside Quality for coastal areas and other aggressive environments (heavy industry, etc.) This ensures that the screen's coating always remains in perfect condition and looks like new even after many years.

Bi-colour

If desired, the head box, both side guiding channels, the bottom bar and mounting feet can be finished in two different colours, depending on the look of the building and the customer's requirements.

For example, in the case of a Fixvent Mono AK, the inside of the head box can be chosen to match the interior while the outside can match the profiles on the outer side of the façade.



? More info

Consult our colour guide.





GLOSSARY

Aluminium

Aluminium is a light but strong material, with a long service life that is ideal for modern architecture. It lends itself perfectly to slender profiles and facilitates large over-tension. It is also 100% recyclable and very easy to maintain.

Anodization

Anodization is one of the most commonly applied finishes of aluminium. Anodization is an electrolytic process whereby the natural tendency of aluminium to form an oxide film on the surface area is enhanced by electrolytic processing. In doing so, the workpiece is connected as anode. The resulting coating has protectively, decoratively and functionally enhanced features.

Bottom bar

The bottom bar manufactured from extruded aluminium is heavily weighted with a rod of galvanised steel. It is encased in PE-foam to prevent contact between the aluminium and steel. For a perfect seal with the sill, the bottom bar is fitted with a plastic sealing strip.

Cable feed

The location of the cable feed is related to the choice of product and installation method. Every location has a specific code and can be located left or right. The position from which to determine the choice of cable location left or right is indicated on the technical drawings in our brochure by means of the image below of a face.

Cable length

It is possible to extend the motor cable if the local conditions require it. By default, the cable length is 3 or 5 meters, depending on the motor type. This cable length can be extended to 10 metres for an efficient connection to the power network. See page 245 for further explanation.

CE-marking

The EN standards lay down the rules with regard to the products in the market and form the basis for a CE marking. With the CE marking we show that the products meet the legal requirements in the areas of safety, health and the environment.

Click&Safe

In case of hidden installation, Click&Safe ensures a safe installation of the fabric set. During installation, the fabric set simply clicks to the head box, leaving the installer free to safely complete the installation.

Confection

Fabrics are cut mechanically, thermally or ultrasonically. Fabrics are thermally welded or via high frequency.

Confection side (CF1 and CF2)

A fabric has two sides. In case of woven fabrics, there is a small difference in the weaving. Confection side 1 is the top of the fabric sample in the Renson fabric sample swatch. This is the exterior view of the screen fabric. Confection side 2 is the bottom of the fabric sample in the Renson fabric sample swatch. The confection side is marked on all technical drawings.

Connect&Go-technology

The Connect&Go-technology consists of a patented, splashproof electrical connector in two parts: a female part in the head box and a male part on the fabric set. The Connect&Go-technology guarantees a quick, safe and simple installation of the fabric set, the motor and the fabric. Dismounting the fabric set barrel is also efficient. The Connect&Go-technology consists of a patented, splash proof electrical connector in two parts: a female part in the head box and a male part on the fabric set barrel package. See page 20.

Coupled

Coupled screens are two different screens in which case the head box runs through. In the middle, there is a coupling side guiding channel in which both fabrics are guided. These coupled screens are powered by 1 or 2 motors. In case of motorisation with 1 motor, the screens are operated together and they roll up and down together. With motorisation with 2 motors the screens can be operated together, but also separately. Ideal for sliding doors or sliding windows.

Declaration of Performance (DoP)

DOP stands for Declaration of Performance or Performance DOP. This mandatory declaration is compiled by Renson and proves that the sun protection meets the performances that are required for the specific application thereof. These performances are described in the CE standard. The CE mark is therefore also in the DOP-declaration.

EN 13561

Solar shading must comply with the harmonized standard NBN EN 13561 (Awnings - Performance requirements including safety) which was registered as a Belgian standard by the Belgian Institute for Standardization (BIN) on 9 September 2014. (also see p 244)

EN 14501

Thanks to the standard NBN EN 14501 (Sunshades and shutters - Thermal and visual comfort - Performance features and classification) it is possible to divide the fabrics into classes depending on their performance. The classes are defined with respect to their impact on the thermal and visual comfort (0 = very little impact, 4 = pronounced positive impact). This norm can therefore serve as additional resource for the choice of the screen fabric that best fits the special wishes of the client.

Fabric cord

At the top and bottom, the screen fabric is attached with a cord in a fabric eyelet or with a fixed cord (piping or strip). The screen fabric is thus firmly contained in the fabric set and the bottom bar.

Fabric set

The fabric set is manufactured from galvanized steel and fitted with a unique recessed groove to limit compression of the fabric eyelet. As a result, the horizontal line formation is greatly reduced.

Fabric set end piece

The patented fabric set end pieces are conical (cone shaped) to compensate for the thicker ends of the rolled up zip and thus ensure a perfect roll-up of the fabric.

Finished height

This dimension is important to determine the order size of the screen. The finished height is equal to the total distance between the bottom of the side guiding channels and including the head box in case of vertical screens.

Exceptions:

- When brackets are used (with IM 5 and IM 9) the finished height is exclusive of the bracket.

Fire resistance of a fabric

The fire resistance indicates the extent to which the fabric responds and performs in case of fire.

Fixscreen-technology

The Fixscreen-technology guarantees a windproof, taut and wrinkle-resistant fabric in wind speeds up to 130 km/h. Thanks to the optimal attachment of the zip to the fabric, it remains in the side guiding channel in case of high wind speeds. See page 20 for further explanation.

Freestanding

Freestanding means that there is no underlying construction behind the sun protection or underlying construction behind the window.

Note that the maximum wind speeds can be lower in this case.

Gloss level

Powder coating colours are available with various gloss levels: RAL: gloss level of 70%, MATT: gloss level of 30%.

Head box

The head box consists of extruded aluminium profiles. The ends are provided with side supporting end caps that support the roll-up mechanism and are fitted with pins to slide the head box on to the side guiding channels. The head box is closed by means of a removable profile which hinges in the fixed cupboard profile and can be disassembled.

Head box extension

Head box extension can be requested for certain installation methods. The head box is extended along 1 or 2 sides and the head box profiles continue in relation to the side supporting end caps. This can be interesting for aesthetic reasons where this head box extension fills an empty space above the window next to the screen or where 2 head box extensions are formed into one corner.



Hirschmann-plug

Hirschmann plugs ensure an easy, high quality, safe and durable coupling of motor cables if the supplied cable length is not sufficient. At the same time, the plug ensures that there is no water infiltration during bad weather conditions, that it does not detach during heavy vibrations and that no hazardous substances can penetrate the plug. The Hirschmann plugs can be delivered assembled or non-assembled and are available in two versions (4 or 5-wire), depending on the motor type.

Inclination angle

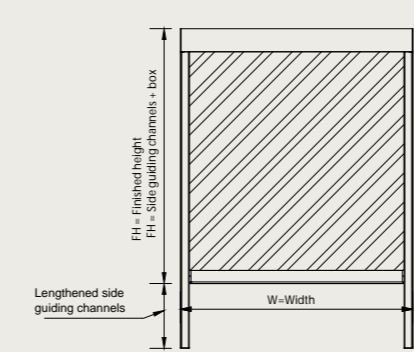
For horizontal sun protection, the inclination angle is requested to determine which type of fabric can be used and which dimensions can be realized, in order to offer the best technical solution, for instance to prevent water sagging and/ or wrinkling.

Insect proof

When closed, insects do not get a chance to enter your home. There is no gap between side guiding channel and screen. A bottom bar with a sealing strip ensures a perfect connection to the sill. This means that intensive ventilation can take place during the day as well as at night.

Lengthened side guiding channels

From an architectural point of view, in order to achieve a perfect connection to a sill, the side guiding channels can be extended. The additional length of the side guiding channels can be defined independently of each other. Note that the height of the fabric is manufactured according to the specified finished height of the screen, i.e., excluding the additional extension of the side guiding channels.



Linked

Linked screens means that two screens are installed next to each other, without a connection between the two head boxes. Both screens have their own motor, own head box and own side guiding channels and are linked possibly using mounting feet. In doing so, expansion must be taken into account.

Powder coating

Powder coating is an electrostatic coating process in which compressed air, negatively charged powder is sprayed onto a positively charged workpiece. This keeps the powder temporarily sticking, after which it is melted or fused in an oven. Powder coating is an environmentally friendly process as during the paint process, no solvents are released because no chemical additives are needed to attach the powder to the aluminium profiles.

Powdercode colours

Powdercode is a coding system to define colors and coatings.

Pre-anodisation

Pre anodization is a pre-treatment that protects the aluminum profiles against aggressive environments such as coastal areas, heavy industries, etc. It is a thin, non-sealed anodised layer, which is used separately for powder coating in an anodization line and avoids filiform corrosion

Precontraint method

The Precontraint method is the production technique for Soltis polyester fabric. After the weaving process, the fabric is pulled to high tension in both directions and is fixed with a liquid PVC.This provides the fabric with a great deal of dimensional stability, so that it cannot become deformed under load. The same technique also ensures that the canvas has the same thickness over the entire surface.The surface area of the fabric is also dirt-repellent.

Printing

All fabrics can be printed in accordance with personal design.

Projection

Applicable to horizontal screens. The projection is the total distance between the bottom of the side guiding channels and including the head box. This measure is important to determine the order size of the horizontal screen.

PVC side guiding channel

In every side guiding channel, there is a PVC side guiding channel with co-extruded wear-resistant top layer (also see Smooth-technology). This PVC side guiding channel is provided with buffer zones to compensate wind gusts. The zip, which is attached to the screen fabric, is pushed into this PVC side guiding channel and the screen fabric is retained this way. Sufficient tolerance has been provided between the fabric, aluminium side guiding channels and the PVC side guiding channel to ensure smooth guidance. See page 23 for further explanation. (Not applicable for Vegascreen)

Renson® Connect

The ideal solution for operating your Renson® screens by smartphone. Forgotten to close your screen on a hot day? No problem, now you can do it remotely. So it's lovely and cool when you get home.

Renson® standard colours

Renson®'s standard colours are the most requested powder coating colours and are available as standard without additional costs (see page 232).

Renson® Connect Solmate®

Our unique Renson Connect Solmate system automatically controls your fabric sun protection based on your personal preferences and local weather parameters such as the temperature and the sunlight coming in. For example, your sun protection will automatically be lowered when the sun is shining brightly. This prevents excessive indoor temperatures and the need for additional cooling.

Roll width

Each canvas is available in a certain roll width. The welding seam will be visible if the fabric dimensions are bigger than this roll width. (see also welding seam)

Seal strap

Side edges of fiberglass fabrics that do not have a zip are standard fitted with a seal strap. This is a transparent reinforcement band to prevent fraying.

Seaside Quality A

Pre-treatment in accordance with Seaside Quality A is recommended. Seaside Quality A is a way of pre-treatment on the powder coating line where at least 2 g/m2 are stained before powder coating. A thorough cleaning on a regular basis is required here, which limits the chance of filiform corrosion below the coating compared to standard coated profiles.

Self-regulating

The Fixvent Mono AK/UT is the only screen that provides ventilation in addition to sun protection. Fresh air is supplied to your home through the ventilation flap in the inside profile. The integrated self-regulating valve plays a very important role in this: it reacts automatically to pressure differences, and therefore guarantees a constant flow rate and a draft-free supply of fresh and healthy air even at high wind pressures.

Setting cable

Thanks to a setting cable you can set up tubular motors in a safe and simple way. These are suitable for adjusting tubular motors and if needed, reset the end points. Setting cables are available for Detecto Rensonmotor Safety First, Rensonmotor 24V and Becker SMI motors. See page 245 for further explanation.

Side guiding channel

The side guiding channels consist of multiple extruded aluminium profiles to facilitate easy mounting and dismounting.

Smooth-technology

The Smooth-technology includes a patented, coextruded, wear-resistant top layer in the HPVC innerrail. This layer consists of Teflon and guarantees a smooth, durable and silent operation of the zip in the HPVC innerrail. This ensures a taut and wrinkle free fabric and also ensures that the fabric stays windproof in all positions. See page 20 for further explanation.

Symmetric zip

For products equipped with Fixscreen-technology, the sun protection fabric has a symmetrical zip on both sides. This symmetrical shape ensures that the fabric absorbs the wind load well. As a result, the fabric is securely held in both side guiding channels and remains windproof in all positions. See page 20 for further explanation.

U-value

The U-value or insulation value indicates the extent to which a product is a good insulator. A high U-value indicates a thermally poorly insulating product, a low U-value means that the product thermally insulates well. Therefore: the higher the U-value, the better.

Waterproof

Screen fabrics cannot be perfectly waterproof except the blackout fabrics. As with all fibre glass yarns, there are small holes between the threads. This is technically described as the opening factor of a fabric.

Welding seam

If both width and height are greater than the fabric set width, it may occur that a weld seam is visible so that both fabric parts can be connected to each other. The position of the welding seam differs from fabric to fabric and from the dimensions of the fabric. The welding seam height is always calculated from the lowest point of the frame.

Width

This dimension is important to determine the ordering size of the screen. The width consists of the total width of the head box, including the side guiding channels.





AMBASSADORSHIP

You are convinced about our products and enthusiastically share this with the world. In turn, we are proud that you are the connecting factor between Renson and your customers. Just for you, we created the Renson Ambassadorship: a long-term partnership.

This quality label guarantees your customers that you are a reliable expert in ventilation with excellent product knowledge and perfect service, from installation to the first service visit.

What does your Ambassadorship stand for?

- You share your passion for Renson with a strong professional network.
- Every two years, you will be invited to our Ambassador Days where you can network with your colleagues to your heart's content.
- You are among the first to gain access to innovative and market-specific products and solutions.
- You have access to exclusive promotions for end customers, supported by media campaigns (online/offline).
- Through our lead tool, you will get one-to-one leads per region, which we receive via our communications, trade shows and events.
- We put you in the spotlight regularly and support you through co-branding to develop the Renson brand in your region.
- We promote you to your end customers.
- You may wear the exclusive quality label of Renson Ambassador.

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SOUDAL QUICK-STEP PRO CYCLING TEAM
POWERED BY RENSON



