MASTERING SUN PROTECTION

FABRIC SUN PROTECTION

RENSON®

CONTENTS

Our passion lies in creating innovative products and complete solutions that turn every home into a healthy and comfortable place to live. Our commitment to 'creating healthy spaces' is the foundation of everything we do.

Paul Renson

RANGE OVERVIEW

Surface-mounted fabric sun protection

Vertical glazing

Window type

Standard glazing or sliding window

Type of sun protection

Fixscreen®

Standard

Page 26

Surface-mounted with mounting feet

Page 30

Solar

Page 36

Fixscreen® Minimal

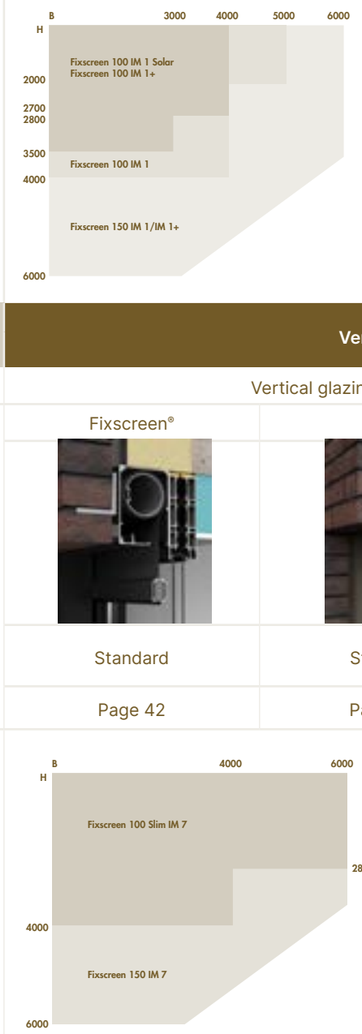
Standard

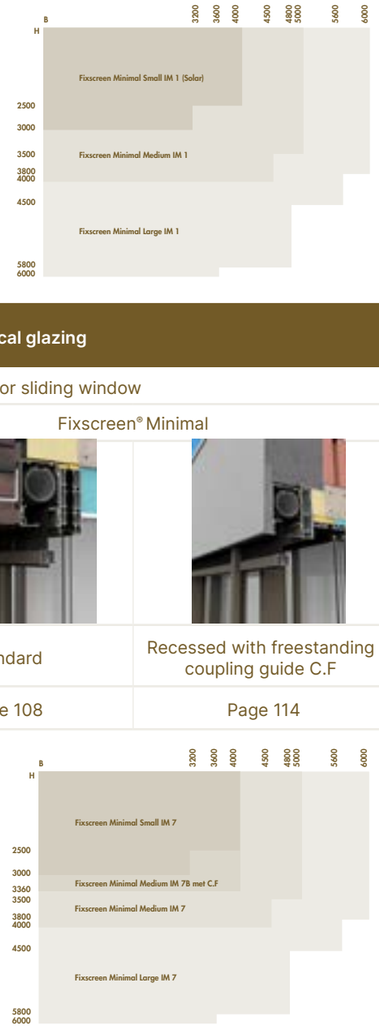
Page 98

Solar

Page 102

Maximum dimensions





Vertical glazing

Corner window	Curtain wall
Panovista®	Fixscreen® Minimal Curtain Wall 50

Standard

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Standard

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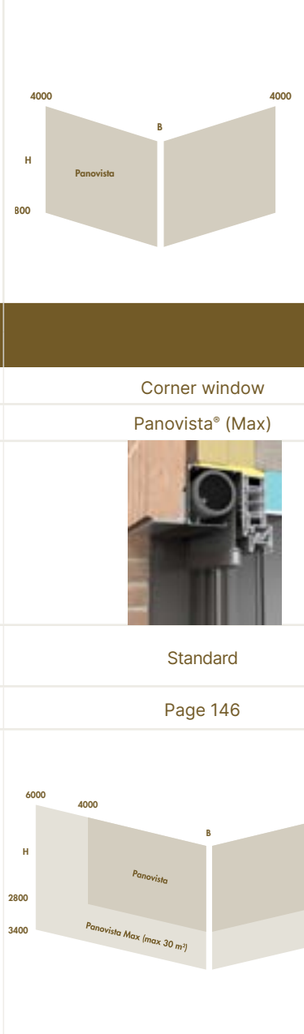
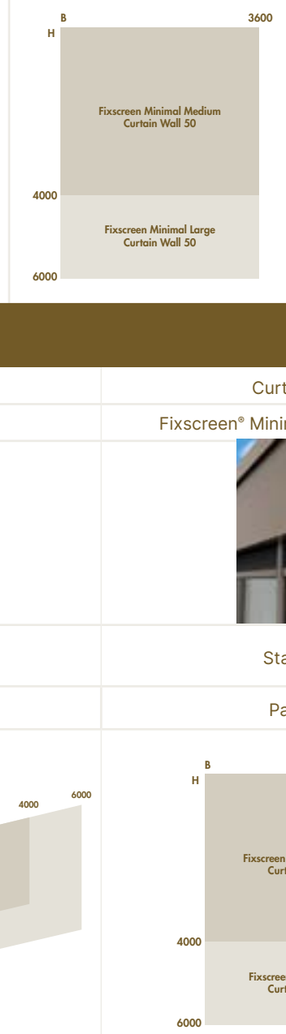
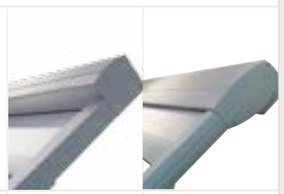




Horizontal glazing

Conservatories, skylights, roof windows or Velux Modular Skylight



	Windproof	Not windproof
Topfix® (VMS)	Page 160	-
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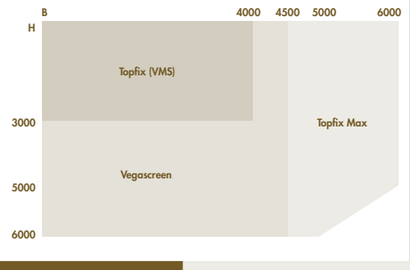

Recessed in front of the window

Vertical glazing

Window type

Vertical glazing or sliding window

Type of sun protection

Fixscreen®

Standard

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Fixscreen® Minimal

Standard

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Recessed with freestanding coupling guide C.F

Page 114

Maximum dimensions

Vertical glazing

Corner window	Curtain wall
Panovista® (Max)	Fixscreen® Minimal Curtain Wall 50

Standard

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Standard

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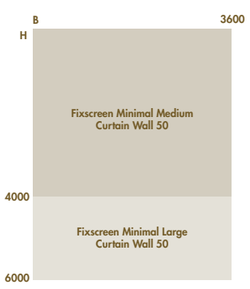
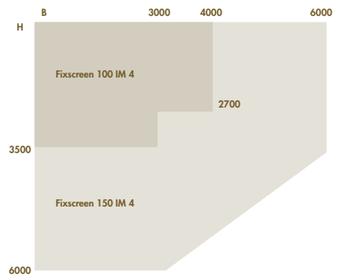
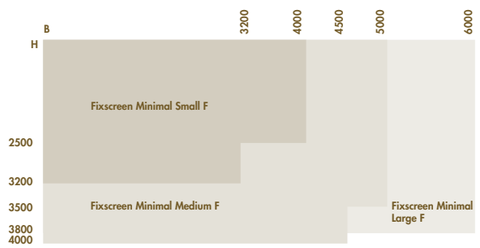
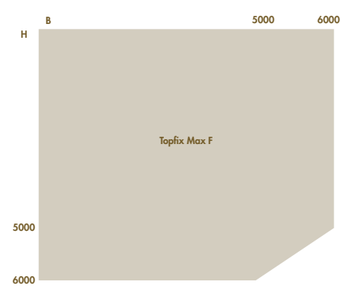


Note: Maximum dimensions may vary depending on fabric type

Recessed on the top of the window	Vertical glazing			Vertical glazing	
Window type	Fabric sun protection	Fabric sun protection and acoustics		Fabric sun protection, acoustics and ventilation	
Type of sun protection	Fixscreen®	Fixscreen® Mono AK/UT		Fixvent® Mono AK/UT	
					
	IM 4	IM 4			IM 4
	Page 52	Page 58		Fixvent® Mono AK Fixvent® Mono UT	P. 62 Page 66
Maximum dimensions					

Freestanding	Without construction behind			Without construction behind	
Application	Vertical			Vertical	Horizontal
Type of sun protection	Fixscreen®			Fixscreen® Minimal	Topfix® Max F
				 	
	Surface-mounted IM 1 F	Recessed IM 7 F		Surface-mounted IM 1 F	Recessed IM 7 F	Standard
	Page 74	Page 78		Page 130	Page 134	Page 172
Maximum dimensions					

Note: Maximum dimensions may vary depending on fabric type

WHY FABRIC SUN PROTECTION

Fabric sun protection efficiently and effectively keeps out the heat of the sun while ensuring natural light, outside views and easy control remain uncompromised.

1

UP TO 10 DEGREES COOLER

Screens block the sunrays before they even reach the glass, making them an ideal solution for keeping indoor temperatures in check. With smart and correct use, fabric sun protection can keep indoors up to 10°C cooler.

2

SAVE ON ENERGY

In summer, indoor temperatures are kept under control without the need for energy-guzzling air conditioning. In winter, with the screens up, maximal advantage is taken of the low-lying sun and the associated warming indoors, leading to energy savings all year round.

3

FOR EVERY PROJECT

Renson offers fabric sun protection for surface areas up to 27.8 m², which are resistant to weather and wind thanks to Fixscreen-technology. There are also numerous installation options, with a suitable screen setup for every window and building.

4

DURABLE AND STYLISH

Choosing aluminium means opting for durability and a stylish finish. It ensures the screens maintain a sleek appearance over the long term. The stylish finish of each component and the optimal integration into the façade – even with retrofitting – complete the package.

ALWAYS COMFORTABLE

VISUAL & AESTHETIC COMFORT

We all need natural daylight. It is crucial to our sense of well-being and health. And it's the ideal free lighting source. It also results in increased productivity in office buildings and better mental and physical health.
We try to let as much of this natural light into our homes as possible by having plenty of windows. At times of high intensity, however, and particularly in the summer, an excess of natural light can severely disrupt indoor comfort. But this can be perfectly avoided with the use of sun protection systems. In other words, sun protection ensures that we can continue to enjoy natural daylight and a clear view outside, without having to contend with the disruptive factors of direct sunlight entering our spaces.

A business case for green building, WGBC Report 2013

OUTSIDE VIEW

Mental function & memory **10-25% Better**	Phone calls **6-12% Better**	Hospital admissions **8.5% Shorter**

DAYLIGHT

Mental function & memory **10-25% Better**	Employees are **18% More productive**	**15-40% Increase** in sales

SYSTEMS

Productivity increased **23%**
Thanks to better lighting **11%**
Thanks to better ventilation **3%**
Thanks to individual temperature control

People now spend almost 90% of their time indoors during the day. 50 years ago, people spent 90% of their time outdoors during the day!

THERMAL COMFORT & ENERGY – SAVING SOLUTION

In addition to visual comfort, thermal comfort is one of the key arguments justifying the choice of dynamic fabric sun protection as an energy-saving solution.

When combined with windows, fabric sun protection offers an additional insulating property. It prevents overheating, which can result in significant energy savings during the summer as there's no need for active cooling. It also allows for the enjoyment of solar gains in the winter, with the added benefit of saving on heating costs.

Sun protection is more than just a product. A high-quality, dynamic sun protection solution is a concept that manages both daylight and shading from the sun. Architects and builders can therefore benefit by integrating it into their designs as standard, for both new builds and renovations. And this will indeed become the standard for new constructions and extensions: from 2021, all new buildings must comply with nearly zero-energy (NZE) principles. The greatest energy benefits are achieved with dynamic and automated sun protection.

Various studies have proven the added value of dynamic sun protection:

- **ESCORP EU-25 study (European study):**
  Roller shutters and exterior and interior sun protection installed on at least half the buildings will result in a nearly 10% saving on energy consumption in buildings.
- **TU Delft: TNO 2015 R10396 (Dutch study):**
  Savings on heating energy due to the thermal insulation of sun protection. The calculated savings on heating energy can reach up to 17% for the reference terraced house and up to 29% for the reference apartment.
- **ESSO 2014 Study (European study):**
  "Dynamic shading solutions for energy efficient buildings." Dynamic sun protection leads to a reduction of more than 36% in cooling costs (all types of glazing and climate conditions in Europe). The highest savings are achievable with south-west facing façades, i.e. up to 65–70%.
- **ESSO 2021 Study (European study):**
  "Solar shading – Synergising mitigation of GHG emissions and adaptation to climate change." Thanks to dynamic fabric sun protection, greenhouse gas emissions in MT CO_2/year could be reduced by up to 58% more by 2050 than with air conditioning.

More daylight and a view outside lead to increased productivity and concentration, and a general sense of well-being.

ENJOY ALL SEASONS

Everyone wants a view outside and as much natural daylight in their home as possible, while keeping the indoor climate under control at the same time. Sun protection adds comfort in the warm summer months and during cold winters. Moreover, sun protection also positively affect your power consumption.

CUSTOMISED COMFORT IN ALL SEASONS

New builds are increasingly well insulated and finished airtight. While that's great for your energy bill, on hot days the sun shines directly on the large windows and quickly makes it unbearably hot inside the house. Once that heat is inside, it becomes nearly impossible to remove it from a well-insulated building.

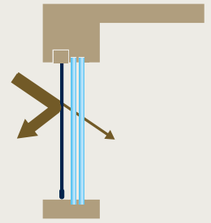
It therefore comes down to 'controlling' sunlight in such a way that you can enjoy it optimally. By keeping the outdoor sun protection retracted in winter, for example, so that you can then benefit from allowing the natural heat to warm the interior. In summer it is then a must to leave the screens down to regulate the interior temperature.

Summer

Winter

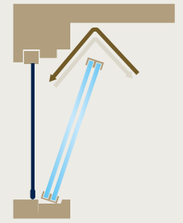
SUMMER DAYTIME

During the day, lower the sun protection to keep the indoor temperature manageable. This also avoids annoying reflections, furniture discolouration and the need for active cooling.



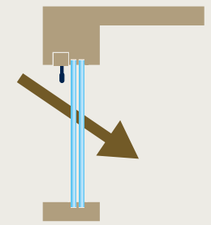
SUMMER NIGHTTIME

At night, the sun protection and the window so your house can cool down sufficiently thanks to the cooler nights. So you start your day in a pleasantly cool house. And insects are still kept outside!



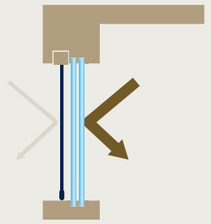
WINTER DAYTIME

During the day, let in as much daylight through the windows as possible to warm your rooms in a pleasant and energy-saving way.

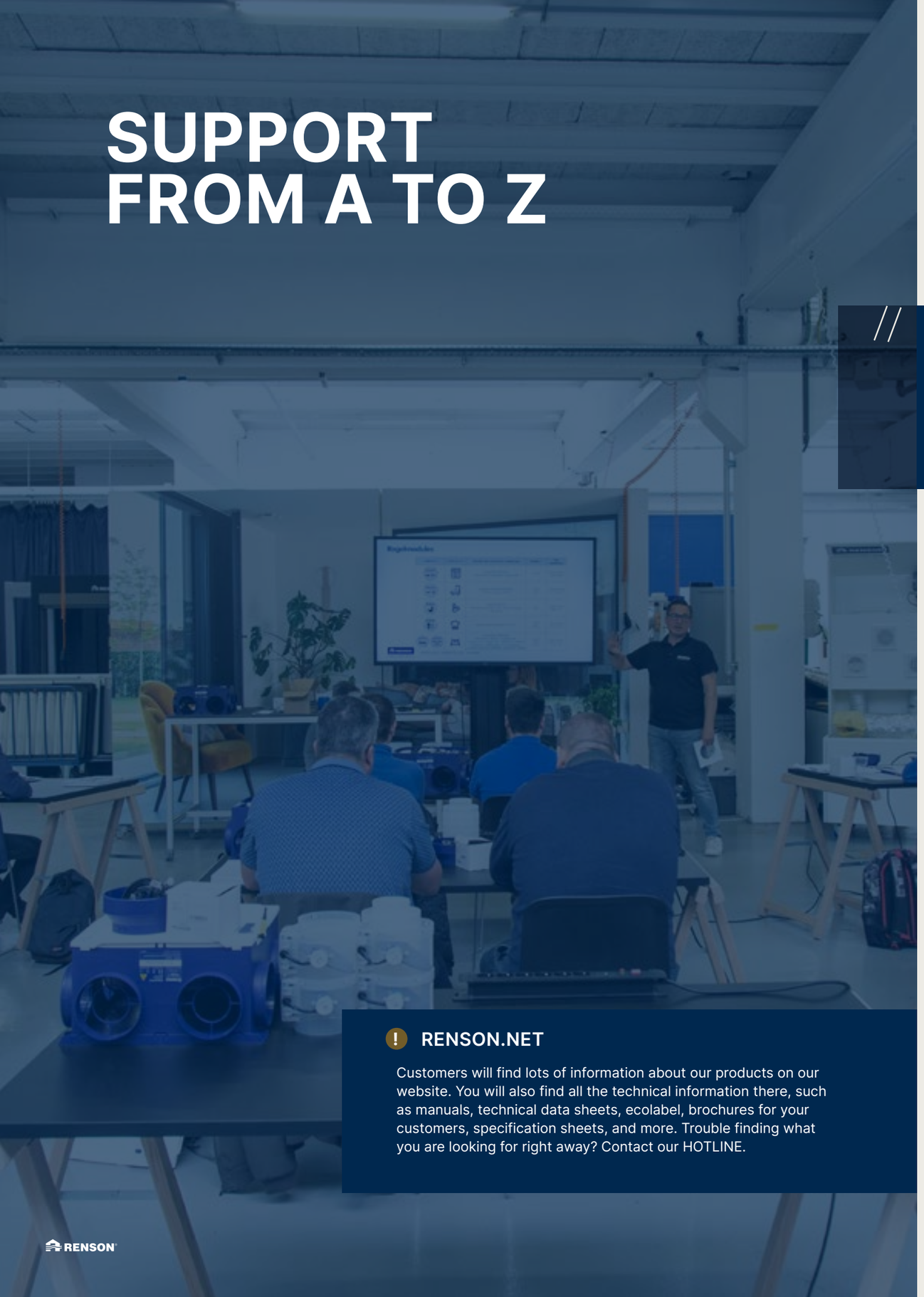


WINTER NIGHTTIME

At night, lower the sun protection so the air between the sun protection and the window acts as insulation. This keeps the heat inside and you wake up in a comfortably warm house.



SUPPORT FROM A TO Z



We are here for you (and your team)! In need of training? Technical assistance or an intervention at the construction site?

SUPPORT

One phone call to the HOTLINE was enough to get my team back on track at the construction site. We promptly got the technical information we were looking for. Perfect service that saved a lot of time!

Hotline

Not sure which solution is the best answer? Struggling with a specific technical issue at the construction site? Contact one of our distribution partners or call a Renson helpdesk representative via the **HOTLINE** on +32 (0)56 30 30 30. If necessary, we will even send a Renson technician to your site. This will save you lots of time and give you a lot less to worry about!

Renson Academy

Perfectly functioning ventilation system starts with correct installation. Good product knowledge and technical skills will save you a lot of time. You (and your team) are welcome to join us for:

- An update of your product knowledge
- A refresher of your skills
- Learning new techniques

Renson Services

Have you got a specific project? Renson Services will work with you to find a suitable solution for your unique project, in accordance with the applicable Eurocodes. A team of technically trained employees is at the ready to answer all your questions. You can also contact us for after-sales service or questions related to installation.

RENSON.NET

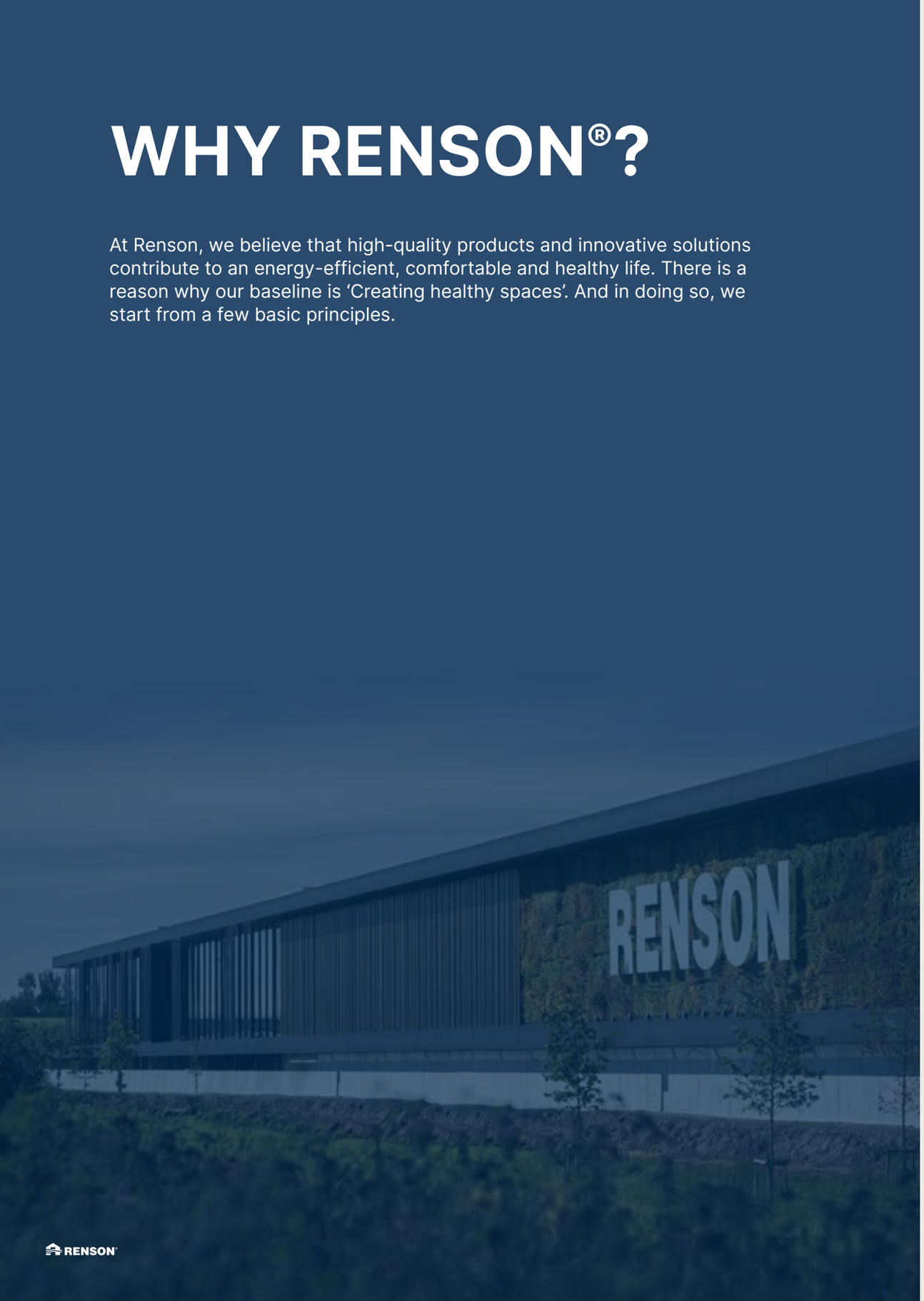
Customers will find lots of information about our products on our website. You will also find all the technical information there, such as manuals, technical data sheets, ecolabel, brochures for your customers, specification sheets, and more. Trouble finding what you are looking for right away? Contact our HOTLINE.

Renson Academy On Tour

Limited in time? Distance too great? Our Academy is happy to come to you. In need of a tailored training course? Not a problem! Putting theory straight into practice will help you move forward! We would love to hear how we can support you. Register at:
renson.net > I'm a professional > Installer training

WHY RENSON®?

At Renson, we believe that high-quality products and innovative solutions contribute to an energy-efficient, comfortable and healthy life. There is a reason why our baseline is ‘Creating healthy spaces’. And in doing so, we start from a few basic principles.



MINIMALIST DESIGN

We aim high when it comes to design. Renson solutions discretely fit into any project. The detailed finishing and seamless integration contribute to this fact.

THE POWER OF INNOVATION

Our hunger for innovation is what drives progress. We achieve impressive results together by developing and applying innovative technologies.

ENDLESS CUSTOMISATION

For a home or workspace, rustic or contemporary. Configuring a solution tailored to each customer and building is quick and easy.

SUSTAINABLE ENTREPRENEURSHIP

We cannot build a healthy living environment without tending to a healthy world. From our choice of materials to our production and logistics, we are building a sustainable business.

ULTIMATE EASE OF USE AND MAINTENANCE

Thorough engineering is a function of ease of use and minimum maintenance. From configuration and ordering to quick and trouble-free installation, with our digital platform, RIO, as its beating heart.

OVERVIEW PRODUCTS

VERTICAL FABRIC SUN PROTECTION

Vertical fabric sun protection blocks direct light from entering, both for standard windows, corner and sliding windows, glass-on-glass windows, as well as freestanding applications. The revolutionary Fixscreen-technology guarantees an extremely windproof and insect-proof fabric that can also handle very large areas of up to 27.8 m^2, or even up to a total maximal surface area of 30 m^2 with Panovista Max. Windproof vertical sun protection is extremely suitable for both new builds and renovations.

FIXSCREEN®

KEEPING HOMES COOL SINCE 2005!
2005: With Fixscreen, Renson launched the first windproof external sun protection screen that could handle wind speeds of up to 130 km/h. So, how does it work? The screen zips tight in two side channels while being lowered, meaning flapping and torn screen fabric are a thing of the past. A genuine milestone, as well as the first step toward a remarkable success story.

Suitable for large glass surfaces
Fixscreen covers up to 22 m²

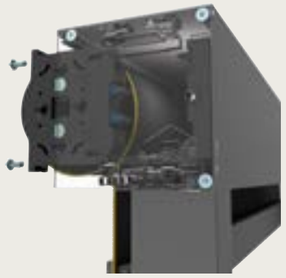
Durable inner rail equipped with Smooth-technology
The patented, co-extruded, wear-resistant top layer in our HPVC inner rail ensures a smooth, durable and soundless guiding of the fabric.

SMOOTH
TECHNOLOGY

Fixscreen-technology guarantees high wind resistance
High wind guarantee up to 130 km/h, thanks to the use of symmetrical zips.

FIXSCREEN
TECHNOLOGY

Vast collection of fabrics and powder coating colours
For the perfect match with all types of architecture



FABRIC SET INSTALLATION AND DISASSEMBLING

Quick and safe installation and disassembling of fabric set thanks to **Connect&Go-technology**

CONNECT & GO

UNIQUE FABRIC TUBES

The standard fabric tube is fitted with a unique recessed groove to limit the impression of the fabric eyelet, with the aim of reducing horizontal lines forming in the fabric. The Fixscreen Minimal, Fixscreen 100 IM 1, Fixscreen Slim IM 7 and freestanding models also have a detachable click-profile for large widths. This ensures easy (dis)assembly when replacing the fabric.

SIDE GUIDING CHANNEL FOR HIDING CABLES

The open side guiding channel S is equipped with an extra channel in which the power supply cable for the motor can be concealed.

THREE-PART SIDE GUIDING CHANNEL

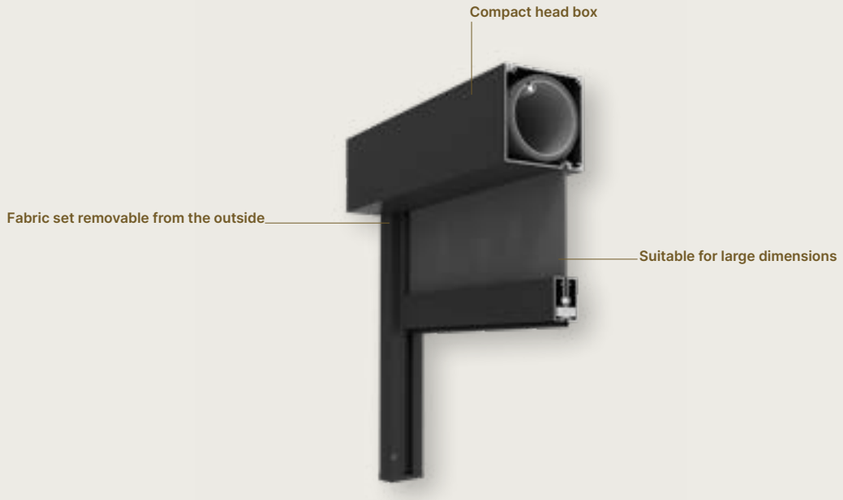
The deep side guiding channel D for recessed screens ensures the accessibility of the head box after installation. This three-part guiding channel has a U-shaped base profile, allowing the fabric set to be easily disassembled without having to completely disassemble the side guiding channel itself. This eliminates the need for cutting or breaking, and maintains the water and wind tightness.

FIXSCREEN®
SURFACE-MOUNTED

FIXSCREEN®

Surface-mounted IM 1

RETROFIT



130 km/h

SMOOTH TECHNOLOGY

FIXSCREEN TECHNOLOGY

CONNECT & GO

Design	Fixscreen® 100	Fixscreen® 150
Head box dimensions (HxD)	100 mm x 100 mm	150 mm x 155 mm
Head box extension	500 mm	
Square	✓	
Softline	✓	
Retractable bottom bar	–	✓ (to FH ≤2800 mm)
Recessed fabric tube	✓	
Base plate side guiding channel	At an angle of 0° or 5°	
Wind resistance		
Wind classification EN13561:2004	3	
Wind tunnel test report	N°113-25809	
Guaranteed wind resistance	Up to 130 km/h in closed position depending on dimensions	
Control		
Detecto Renson motor Safety First	✓	
Somfy mechanic motor	✓	
Somfy (Meastria*) IO radio-controlled motor	✓	
Certificates		
Declaration of Performance (DoP)	DOP-2015SC00002	
Durability test report	WTCB N°651 XE823 CAR4139	

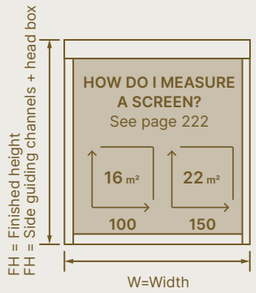
Dimensions		Fixscreen® 100		Fixscreen® 150	
Single screen					
Fibre glass fabric Sergé / Natté Polyester fabric Soltis Veozip Tuffscreen insect mesh	Min. width	700 mm		905 mm	
	Max. width	4000 mm	5000 mm	6000 mm	
	Max. height	4000 mm	2000 mm	6000 mm	
	Max. surface area	16 m²	10 m²	22 m²	
Fibre glass fabric Privacy Polyester fabric Soltis Horizon 86 / Soltis Perform 92	Min. width	700 mm		905 mm	
	Max. width	4000 mm	3000 mm	6000 mm	
	Max. height	2700 mm	3500 mm	6000 mm	
	Max. surface area	10.8 m²	10.5 m²	22 m²	
Blackout fibre glass fabric Satiné 21154 Blackout polyester fabric Soltis Opaque B92	Min. width	1000 mm		1000 mm	
	Max. width	4000 mm		4000 mm	6000 mm
	Max. height	2700 mm		4000 mm	2,600 mm
	Max. surface area	11.2 m²		16 m²	
Coupled screen with 1 motor					
Fibre glass fabric Sergé / Natté / Privacy Polyester fabric Soltis Veozip / Soltis Horizon 86 / Soltis Perform 92 Tuffscreen insect mesh	Min. section width	800 mm		1810 mm	
	Max. overall width	6000 mm		6000 mm	
	Max. section width	4000 mm		5000 mm	
	Max. height	2700 mm		6000 mm	
	Max. total surface area	16.2 m²		22 m²	
Blackout fibre glass fabric Satiné 21154 Blackout polyester fabric Soltis Opaque B92	Min. section width	1000 mm		1810 mm	
	Max. overall width	6000 mm		6000 mm	
	Max. section width	4000 mm		5000 mm	
	Max. height	2700 mm		4000 mm	
	Max. total surface area	16.2 m²		16 m²	
Coupled screen with 2 motors					
Possible dimensions per section, per fabric type according to 'single screen' table	Max. overall width	6000 mm		6000 mm	
	Max. total surface area	24 m²		36 m²	

NOTE

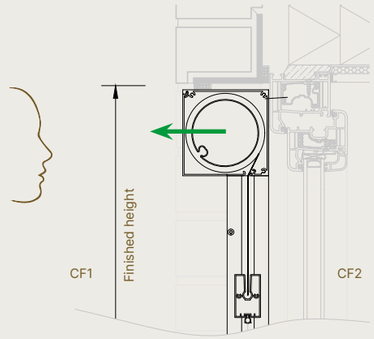
- Fixscreen 150: It is recommended that at least two people install the product. Weight: ± 23 kg/rm.

Motors:

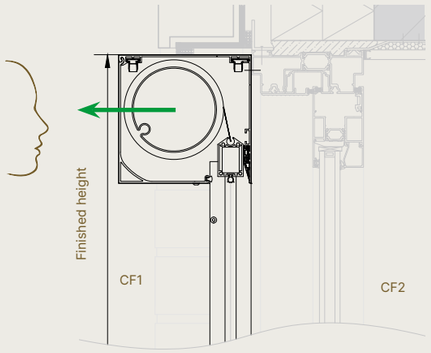
- *For Somfy Maestria IO the restrictions below apply:
  Fixscreen 100: Square: width ≥ 1200 mm - height ≤ 2700 mm / Softline: width ≥ 1800 mm - height ≤ 2700 mm
  Fixscreen 150: width ≥ 1200 mm
- Detecto Renson motor Safety First and Somfy Maestria IO: always coupled with 2 motors



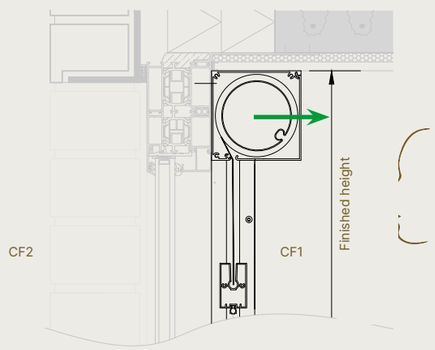
Fixscreen® 100 - Drawing surface-mounted masonry



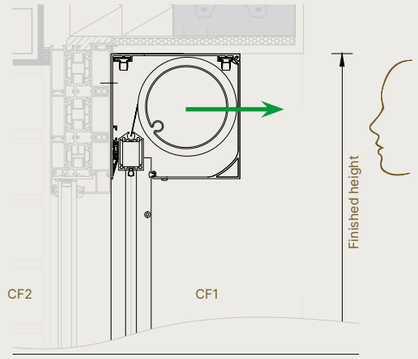
Fixscreen® 150 - Drawing surface-mounted masonry



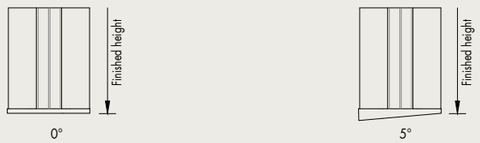
Fixscreen® 100 - Drawing surface-mounted indoor application



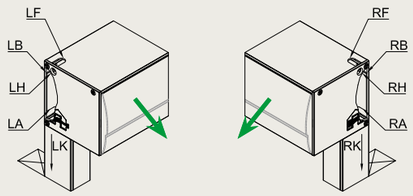
Fixscreen® 150 - Drawing surface-mounted indoor application



Base plate side guiding channel



Cable feed

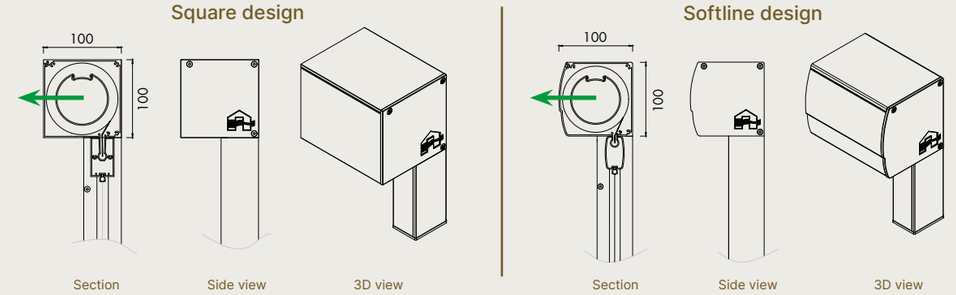


Feed	Feed location
A*	rear
B	rear
F	top
H	side
K	open side guiding channel

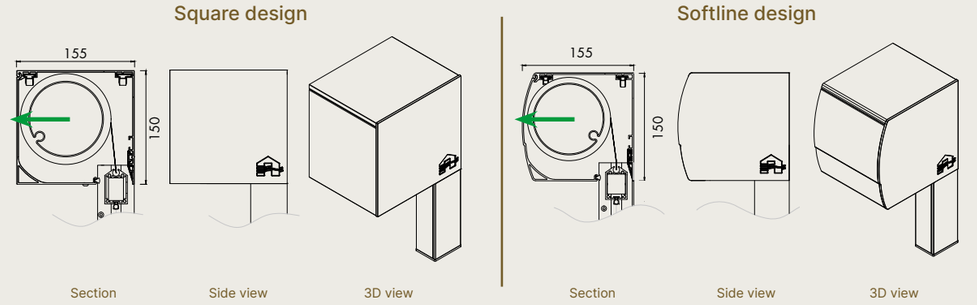
* Only possible for Fixscreen 100

Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed
⊠ Window position

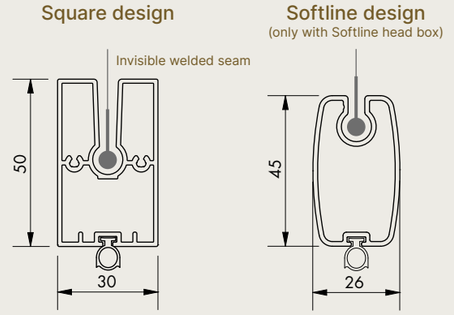
Fixscreen® 100 - Head box



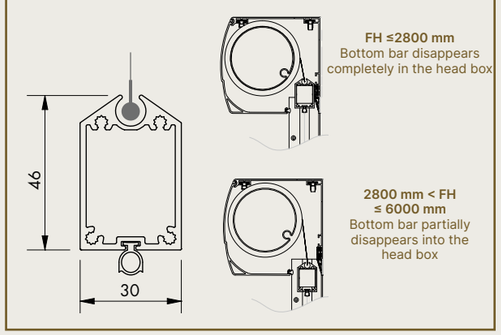
Fixscreen® 150 - Head box



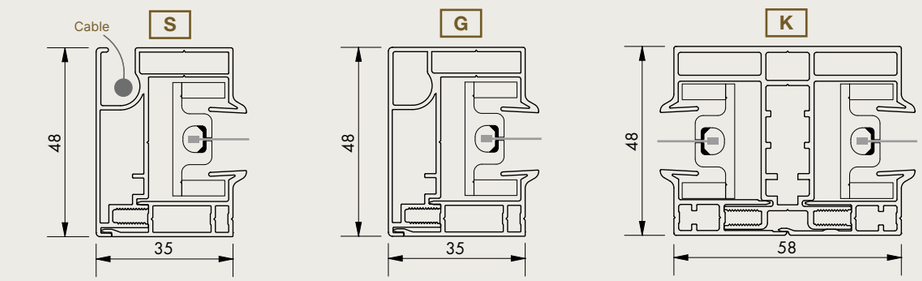
Fixscreen® 100 - Bottom bar



Fixscreen® 150 - Bottom bar



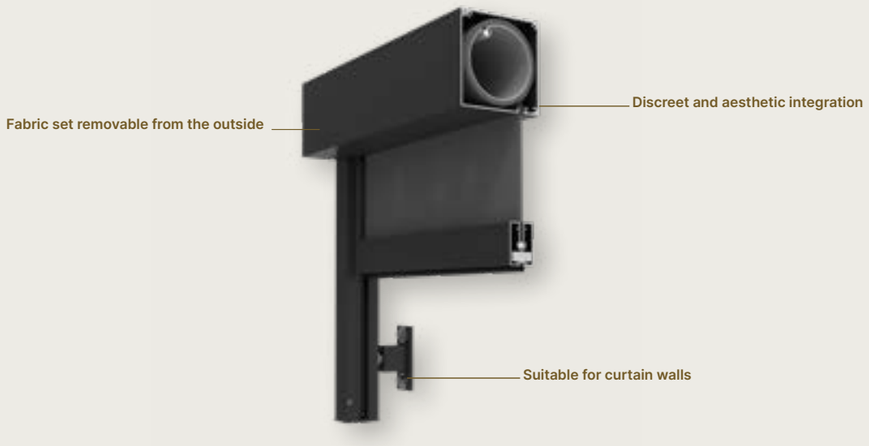
Side guiding channels



FIXSCREEN®

Surface-mounted with mounting feet IM 1+

RETROFIT



80 km/h

SMOOTH TECHNOLOGY

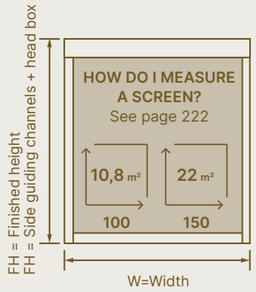
FIXSCREEN TECHNOLOGY

CONNECT & GO

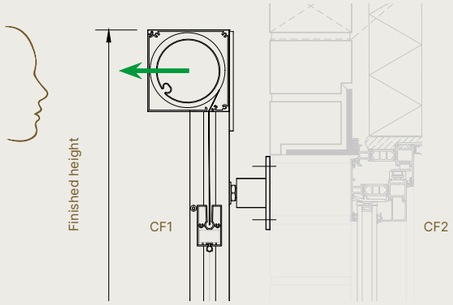
Design	Fixscreen® 100	Fixscreen® 150
Head box size (HxD)	100 mm x 100 mm	150 mm x 155 mm
Head box extension	500 mm	
Square	✓	
Softline	✓	
Retractable bottom bar	-	✓ (to FH ≤2800 mm)
Recessed fabric tube	✓	
Base plate side guiding channel	At an angle of 0°	
Wind resistance		
Wind classification EN13561:2004	3	
Wind tunnel test report	N°114-31926	N°113-25809
Guaranteed wind resistance	Up to 80 km/h in closed position	
Control		
Detecto Renson motor Safety First	✓	
Somfy mechanic motor	✓	
Somfy IO radio-controlled motor	✓	
Certificates		
Declaration of Performance (DoP)	DOP-2015SC00002	
Durability test report	WTCB N°651 XE823 CAR4139	

Dimensions		Fixcreen® 100		Fixscreen® 150
Single screen				
Fibre glass fabric Sergé / Natté Polyester fabric Soltis Veozip / Soltis Horizon 86 / Soltis Perform 92	Min. width	795 mm		905 mm
	Max. width	4000 mm	3000 mm	6000 mm
	Max. height	2700 mm	3500 mm	6000 mm
	Max. surface area	10.8 m²	10.5 m²	22 m²
Linkable				
Required intermediate dimension (expansion)	5 mm			

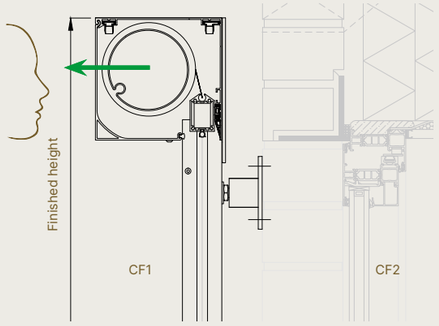
NOTE
- Fixscreen 150: It is recommended that at least two people install the product. Weight: ± 23 kg/rm.



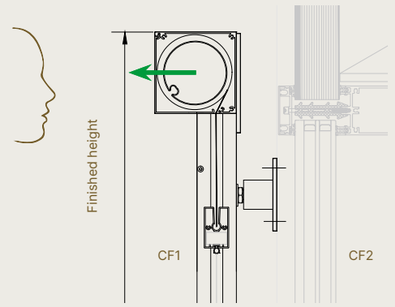
Fixscreen® 100 - Drawing surface-mounted masonry



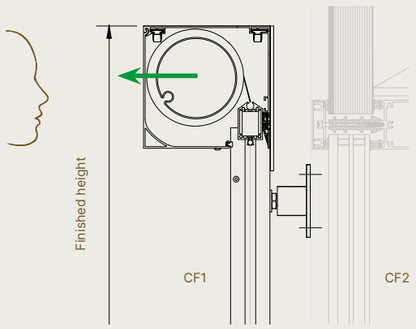
Fixscreen® 150 - Drawing surface-mounted masonry



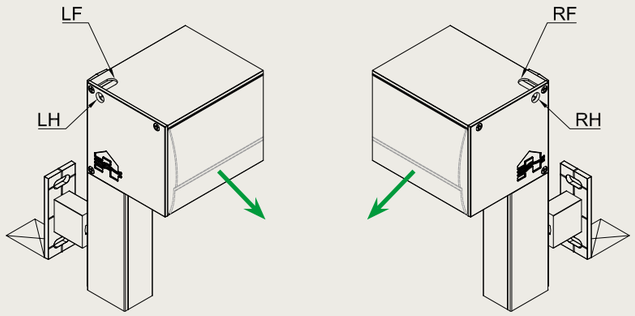
Fixscreen® 100 - Drawing surface-mounted curtain wall



Fixscreen® 150 - Drawing surface-mounted curtain wall

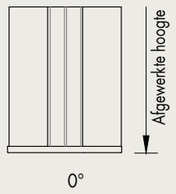


Cable feed

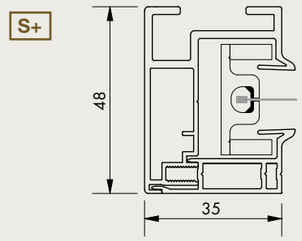


Feed	Feed location
F	top
H	side

Base plate side guiding channel



Side guiding channel

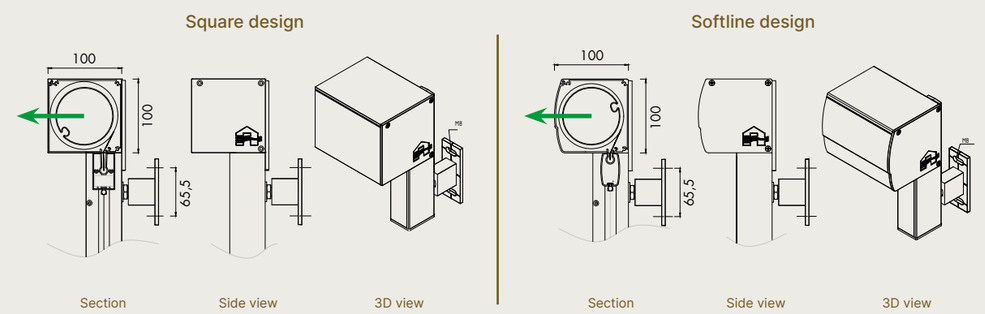


S+ = open side guiding channel

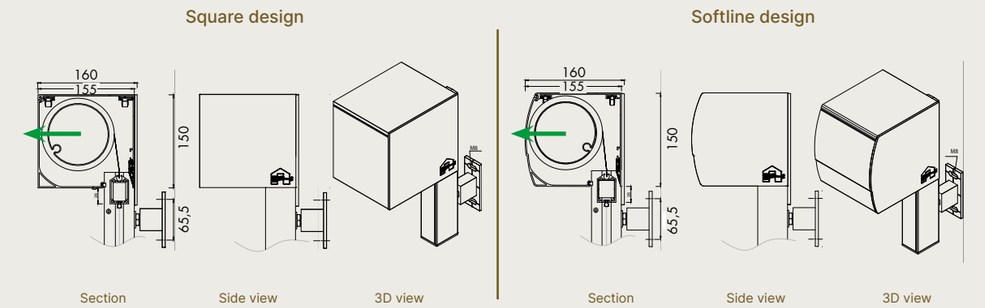
Viewing direction determines choice of left or right cable feed
⊠ Window position

direction in which fabric set should be removed

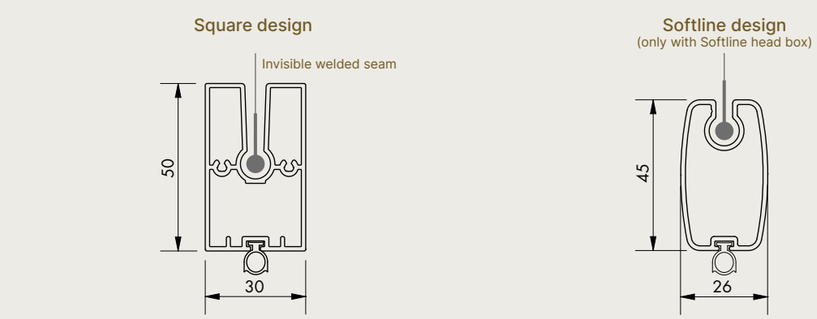
Fixscreen® 100 - Head box



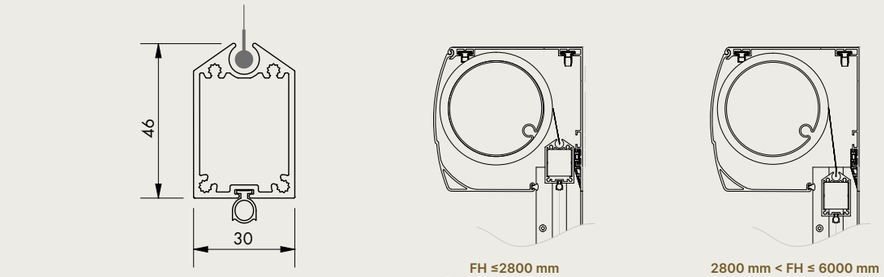
Fixscreen® 150 - Head box



Fixscreen® 100 - Bottom bar



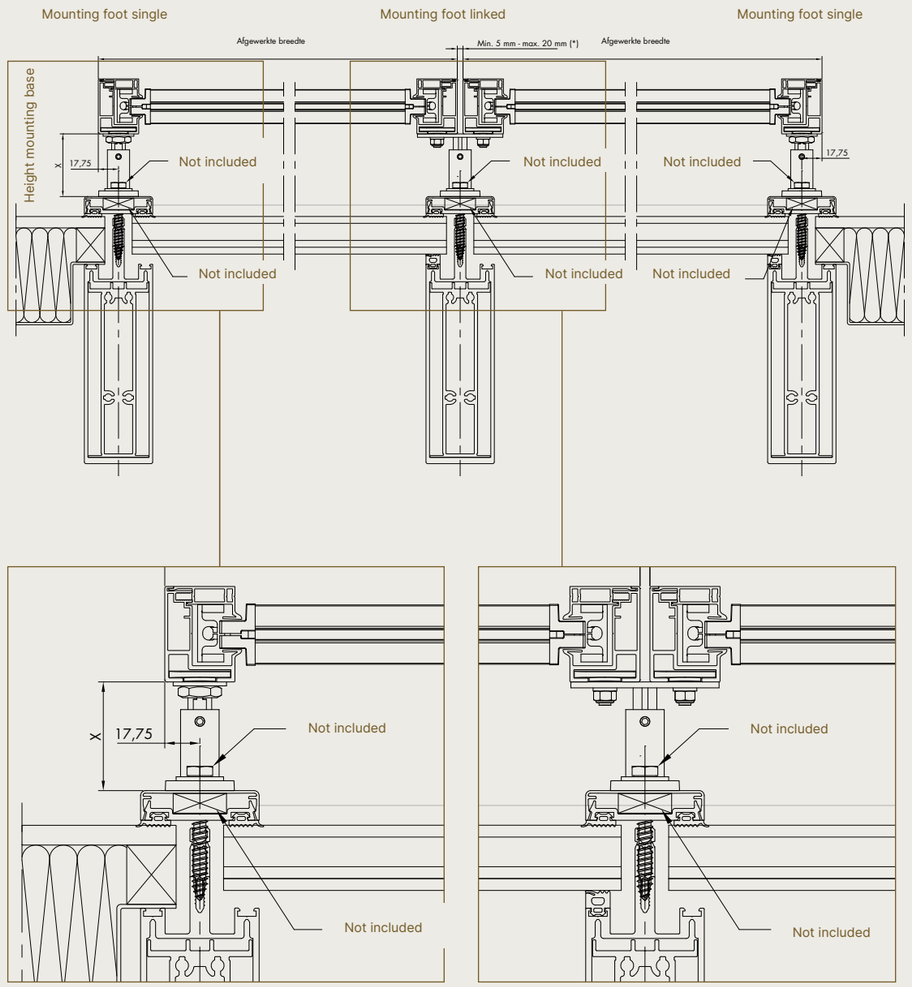
Fixscreen® 150 - Bottom bar



FH ≤2800 mm
Bottom bar disappears completely in the head box

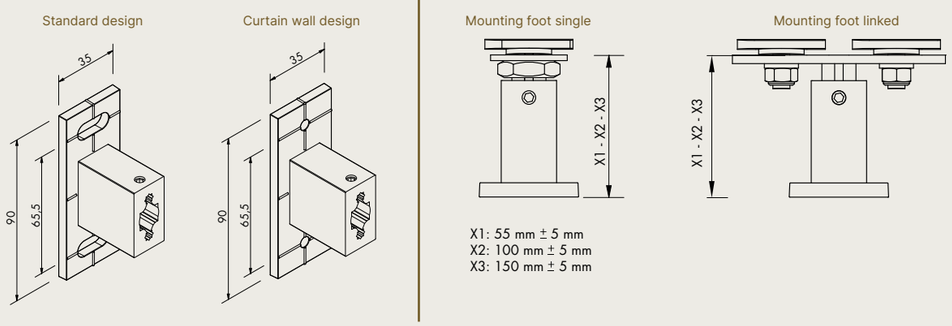
2800 mm < FH ≤ 6000 mm
Bottom bar partially disappears into the head box

Section installation method linked



(*) Hou rekening met uitzetting van de gevel en/of kast in geval van montage van aaneengeschakelde producten. Renson® verplicht een tussenafstand (min. 5 mm) toe te passen bij montage

Type of mounting feet



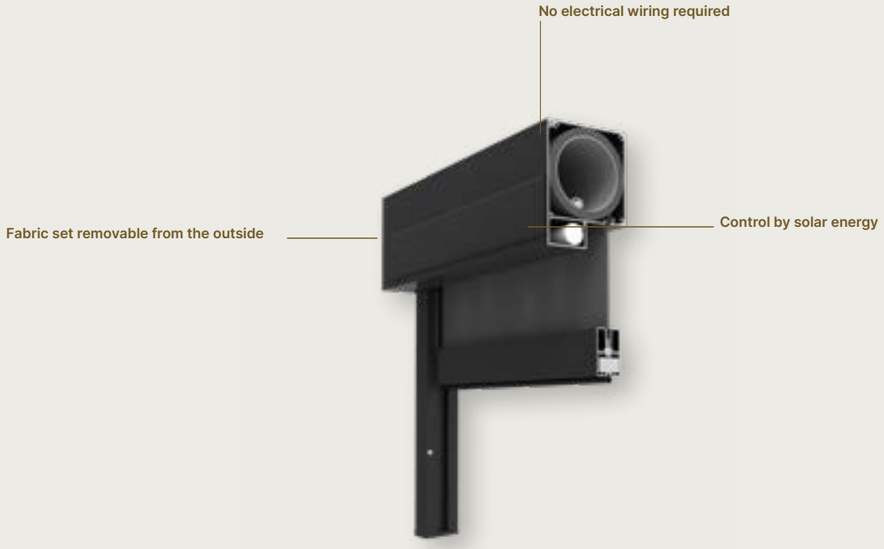
Determination of number of bases depends on width and height (W x H)* Single or linked product					
(in mm)	number of 'mounting feet single' per side guiding channel		+	number of 'mounting feet linked' per link	
	bases left / right			bases middle	
type 55 mm					
Width ≤	4000	6000		4000	6000
Height ≤					
2000	2	2		2	2
4000	2	2		2	3
5200	3	3		3	3
6000	4	4		4	4
type 100 mm					
Width ≤	4000	6000		4000	6000
Height ≤					
2000	3	3		3	4
3100	4	4		4	5
4000	5	5		5	7
4600	7	7		7	7
5300	8	8		8	8
6000	9	9		9	9
type 150 mm					
Width ≤	4000	6000		4000	6000
Height ≤					
2000	3	4		3	4
3100	4	5		4	5
4000	5	7		5	7
4600	7	7		7	7
5300	8	8		8	8
6000	9	9		9	9

* Verify possible dimensions on page 31

FIXSCREEN® SOLAR

Surface-mounted IM 1

RETROFIT



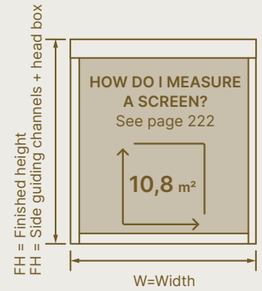
130 km/h

SMOOTH TECHNOLOGY

FIXSCREEN TECHNOLOGY

Design	Fixscreen® 100 Solar
Head box size (HxD)	128 mm x 100 mm
Head box extension	-
Square	✓
Softline	-
Bottom bar partially retractable	✓
Recessed fabric tube	✓
Base plate side guiding channel	At an angle of 0° or 5°
Wind resistance	
Wind classification EN13561:2004	3
Wind tunnel test report	N°113-25809
Guaranteed wind resistance	Up to 130 km/h in closed position
Control	
Somfy radio-controlled motor	✓
Certificates	
Declaration of Performance (DoP)	DOP-2015SC00002
Durability test report	WTCB N°651 XE823 CAR4139

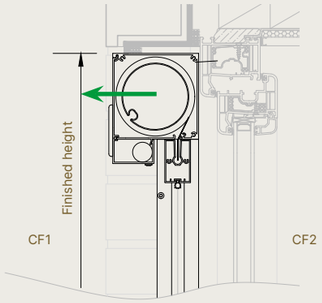
Dimensions			
Single screen			
Fibre glass fabric Sergé / Natté / Privacy Polyester fabric Soltis Veozip / Soltis Horizon 86 / Soltis Perform 92 Tuffscreen insect mesh	Min. width	650 mm	
	Max. width	4000 mm	3000 mm
	Max. height	2700 mm	3500 mm
	Max. surface area	10.8 m²	10.5 m²
Blackout fibre glass fabric Satiné 21154 Blackout polyester fabric Soltis Opaque B92	Min. width	1000 mm	
	Max. width	2000 mm	
	Max. height	2700 mm	
	Max. surface area	5.4 m²	



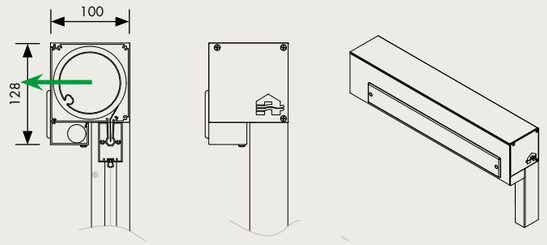
Not sure wheter to go for solar-powered Renson external sun protection screens?

The Somfy Solar app allows you to determine in advance, and in a specific environment, the capabilities of a Solar solution. Available for free in the App store and via Google Play.

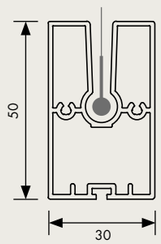
Drawing surface-mounted masonry



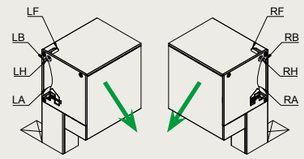
Head box



Bottom bar

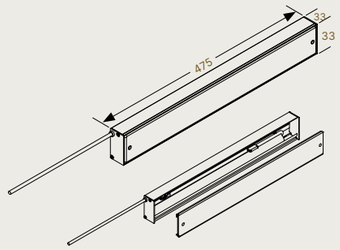


Cable feed with separate solar cell

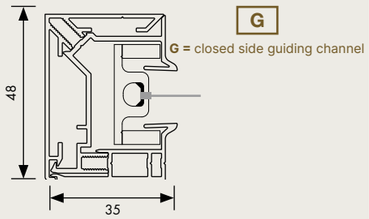


Feed	Location of feed
F	top
B	rear
H	side
A	rear

Separate solar cell option

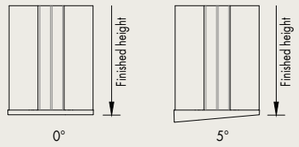


Side guiding channel



G = closed side guiding channel

Base plate side guiding channel



Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed

⊠ Window position

RENSON®

VERTICAL SUN PROTECTION

FIXSCREEN®
RECESSED IN FRONT OF THE WINDOW

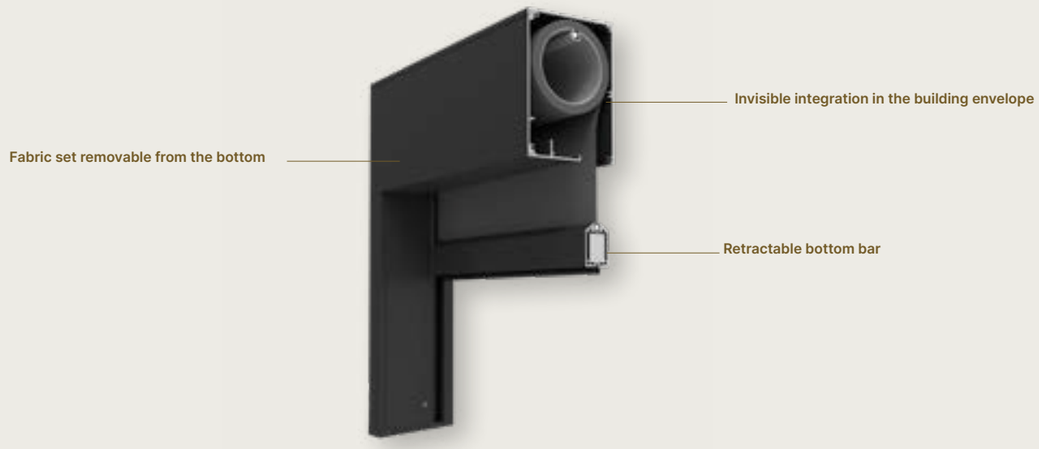
RENSON®

FIXSCREEN®

Recessed in front of the window IM 7

Installation method **7A** fabric close to the window
Installation method **7B** fabric away from the window Combines perfectly with screen, door handle...

NEW BUILD AND EXTENSIVE RENOVATION



130 km/h | SMOOTH TECHNOLOGY | FIXSCREEN TECHNOLOGY | CONNECT & GO

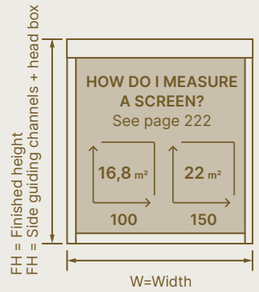
Design	Fixscreen® 100 Slim	Fixscreen® 150
Head box dimensions (HxD)	150 mm x 110 mm	150 mm x 155 mm
Head box extension	500 mm	
Square	✓	
Softline	-	
Retractable bottom bar	✓	✓ (to FH ≤2800 mm)
Recessed fabric tube	✓	
Base plate side guiding channel	At an angle of 0° or 5°	
Wind resistance		
Wind classification EN13561:2004	3	
Wind tunnel test report	N°113-25809	
Guaranteed wind resistance	Up to 130 km/h in closed position depending on dimensions	
Control		
Detecto Renson motor Safety First	✓	
Somfy mechanic motor	✓	
Somfy (Meastria*) IO radio-controlled motor	✓	
Certificates		
Declaration of Performance (DoP)	DOP-2015SC00002	
Durability test report	WTCB N°651 XE823 CAR4139	

Dimensions		Fixscreen® 100 Slim		Fixscreen® 150	
Single screen					
Fibre glass fabric Sergé / Natté Soltis Veozip polyester fabric Tuffscreen insect mesh	Min. width	700 mm		909 mm	
	Max. width	6000 mm	4000 mm	6000 mm	
	Max. height	2800 mm	4000 mm	6000 mm	
	Max. surface area	16.8 m²	16 m²	22 m²	
Privacy fibre glass fabric Polyester fabric Soltis Horizon 86 / Soltis Perform 92	Min. width	700 mm		909 mm	
	Min. height	300 mm		300 mm	
	Max. width	4500 mm	3000 mm	6000 mm	
	Max. height	2800 mm	3500 mm	6000 mm	
	Max. surface area	12.6 m²	10.5 m²	22 m²	
Blackout fibre glass fabric Satiné 21154 Blackout polyester fabric Soltis Opaque B92	Min. width	1000 mm		1000 mm	
	Min. height	300 mm		300 mm	
	Max. width	4000 mm		4000 mm	6000 mm
	Max. height	2800 mm		4000 mm	2,600 mm
	Max. surface area	11.2 m²		16 m²	15.6 m²
Coupled screen with 1 motor (IM 7A)					
Fibre glass fabric Sergé / Natté Tuffscreen insect mesh Soltis Veozip polyester fabric	Min. section width	800 mm		1818 mm	
	Max. overall width	6000 mm		6000 mm	
	Max. section width	5000 mm		5000 mm	
	Max. height	2800 mm		6000 mm	
	Max. total surface area	16.8 m²		22 m²	
Blackout fibre glass fabric Satiné 21154 Blackout polyester fabric Soltis Opaque B92	Min. section width	1000 mm		1818 mm	
	Max. overall width	6000 mm		6000 mm	
	Max. section width	4000 mm		5000 mm	
	Max. height	2800 mm		2,600 mm	
	Max. total surface area	16.8 m²		15.6 m²	
Coupled screen with 2 motors (IM 7A)					
Possible dimensions per section, per fabric type according to 'single screen' table	Max. Total width	6000 mm		6000 mm	
	Max. Total surface area	24 m²		36 m²	

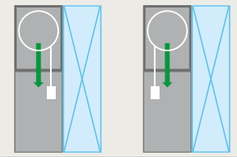
NOTE
- Head box extension not possible with side guiding channel D
- Plaster profile and fixation bracket optional.

Motors:
- *For Somfy Maestria IO the restrictions below apply:
  Fixscreen 100 Slim: width ≥ 1600 mm - height ≤ 2800 mm
- Detecto Renson motor Safety First and Somfy Maestria IO: always coupled with 2 motors

IM 7B:
Note that the system must be accessible across the full width from the inside...
- in case of a motor fault while the screen is down. Otherwise the fabric needs to be cut.
- for adjusting the end points in the case of a mechanical motor

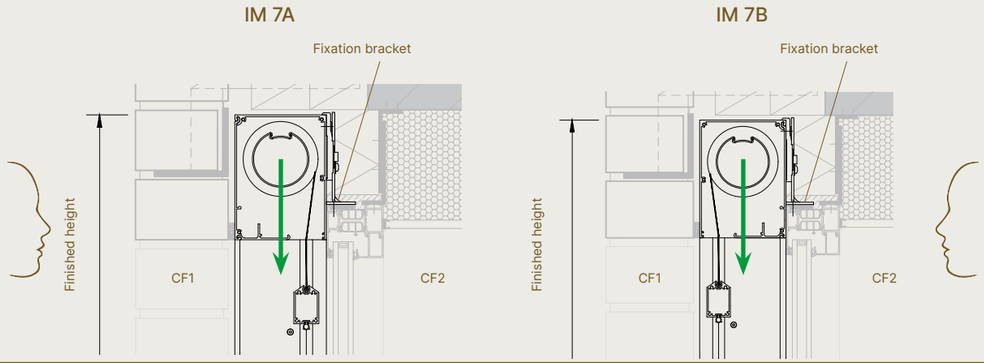


TIP: If a door handle, sliding door handle or fly screen could possibly prevent the free running of the fabric, choose installation method 7B. This ensures the fabric runs away from the window and free running is assured. Note that the system must be accessible across the full width from the inside.

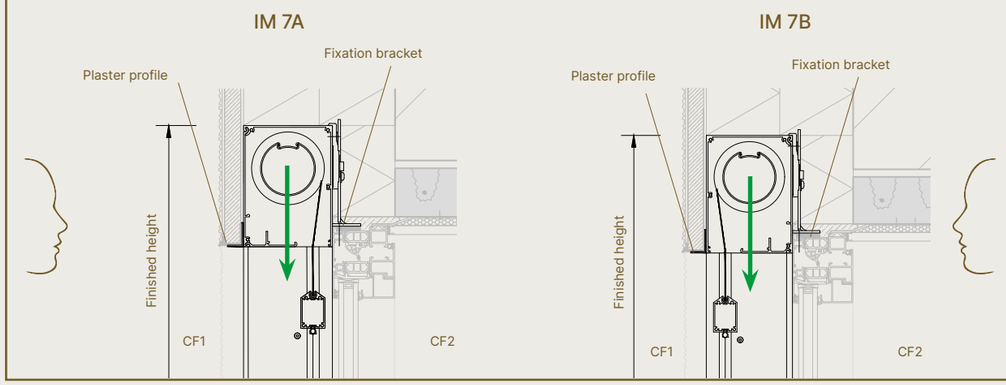


VERTICAL SUN PROTECTION

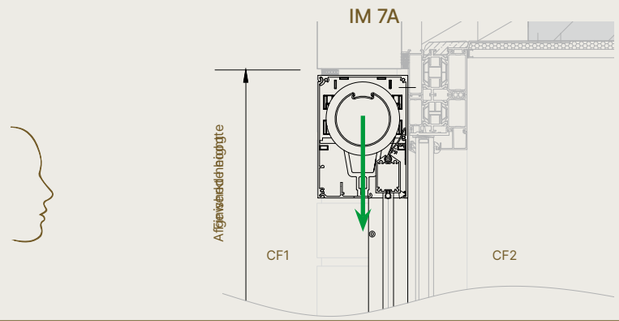
Fixscreen® 100 Slim - Drawing recessed masonry



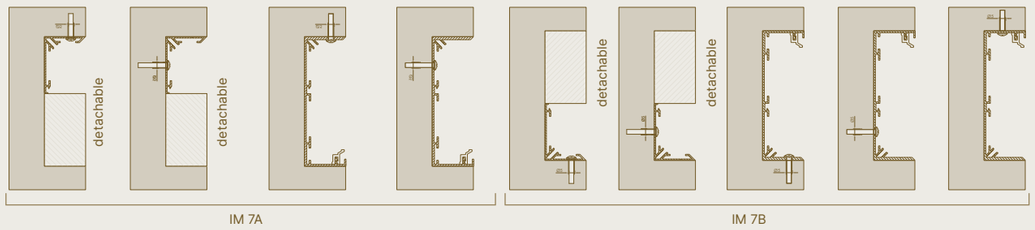
Fixscreen® 100 Slim - Drawing recessed plaster



Fixscreen® 100 Slim - Drawing surface-mounted masonry

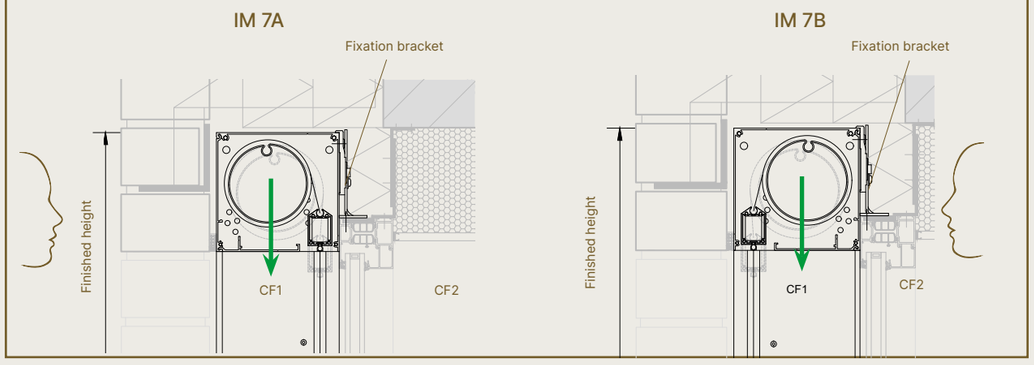


Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed

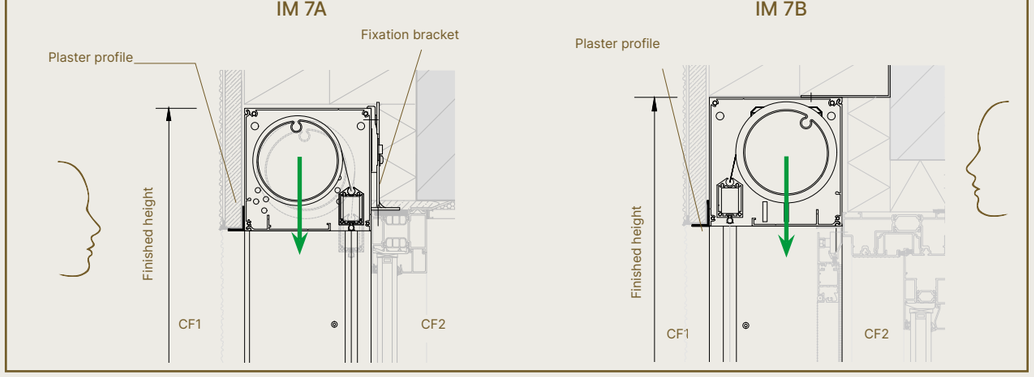


Note: When choosing the narrow side guiding channel G, the customer must foresee something detachable under the head box in order to be able to disassemble the fabric set underneath (H = min. 680 mm).

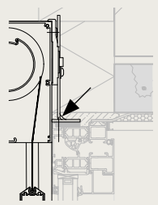
Fixscreen® 150 - Drawing recessed masonry



Fixscreen® 150 - Drawing recessed plaster

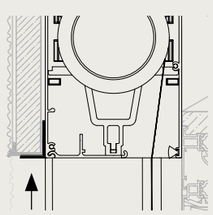


Fixation bracket



Bracket height min. 80 mm - max. 185 mm

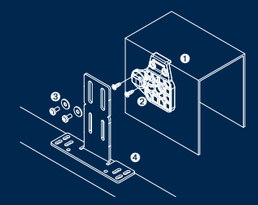
Plaster profile



Plaster profile 20 mm x 30 mm of 30 mm x 30 mm

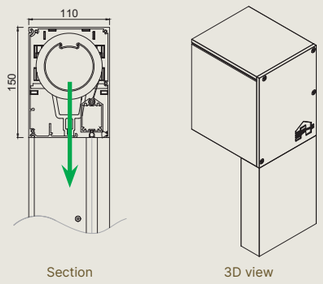
Fixation bracket for rapid mounting

The fixation brackets offer a simple solution for rapid mounting to the window frame. The ingenious one-fits-all design of the fixation bracket ensures all screen types can be secured using the same accessory.
More info on www.renson.eu/fixation-brackets



Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed

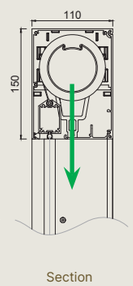
Fixscreen® 100 Slim - IM 7A - Head box



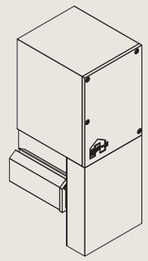
Section

3D view

Fixscreen® 100 Slim - IM 7B - Head box

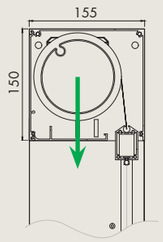


Section

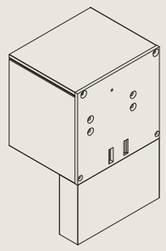


3D view

Fixscreen® 150 - IM 7A - Head box

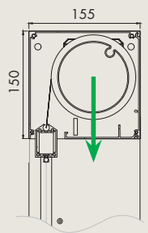


Section

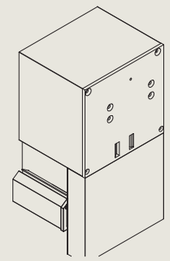


3D view

Fixscreen® 150 - IM 7B - Head box

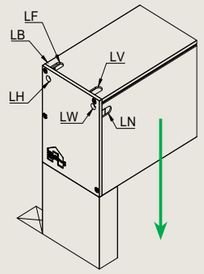


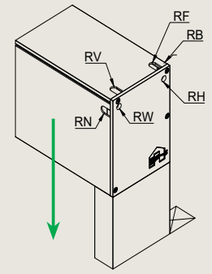
Section



3D view

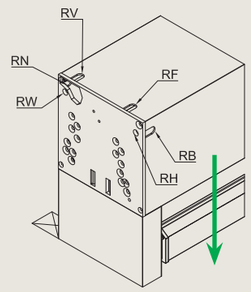
Cable feed - IM 7A

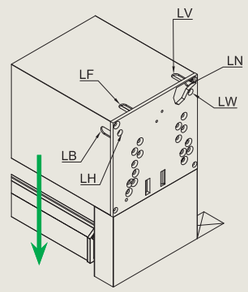




Feed	Feed location
B	rear
F	top
H	side
N	front
V	top
W	side

Cable feed - IM 7B

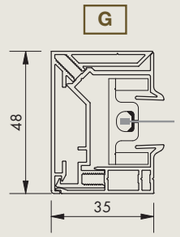




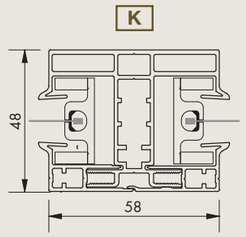
Feed	Feed location
B	rear
F	top
H	side
N	front
V	top
W	side

Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed
⊠ Window position

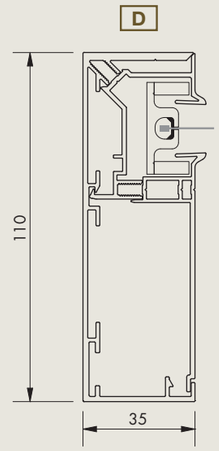
Fixscreen® 100 Slim - Side guiding channels



G = closed side guiding channel

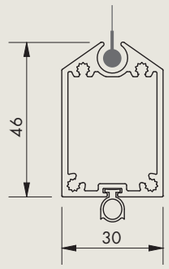


K = coupling side guiding channel*

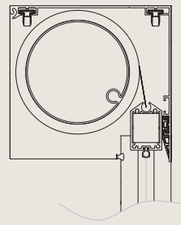


D = deep side guiding channel (standard)

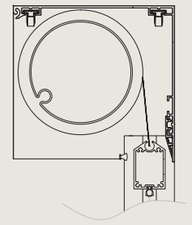
Bottom bar



Fixscreen 150

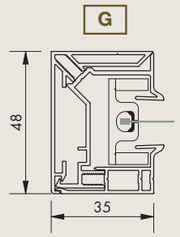


FH ≤2800 mm
Bottom bar disappears completely in the head box

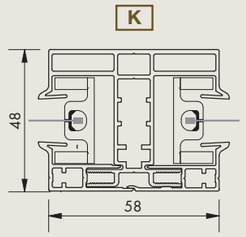


2800 mm < FH ≤ 6000 mm
Bottom bar partially disappears into the head box

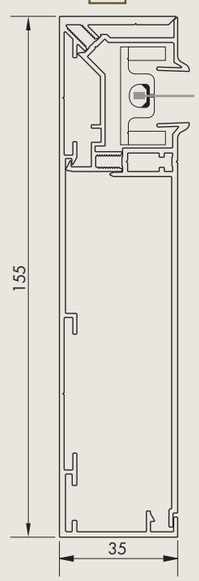
Fixscreen® 150 - Side guiding channels



G = closed side guiding channel

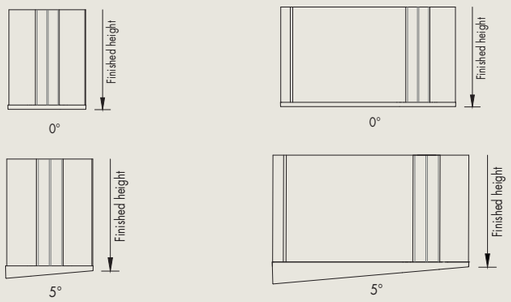


K = coupling side guiding channel*



D = deep side guiding channel (standard)

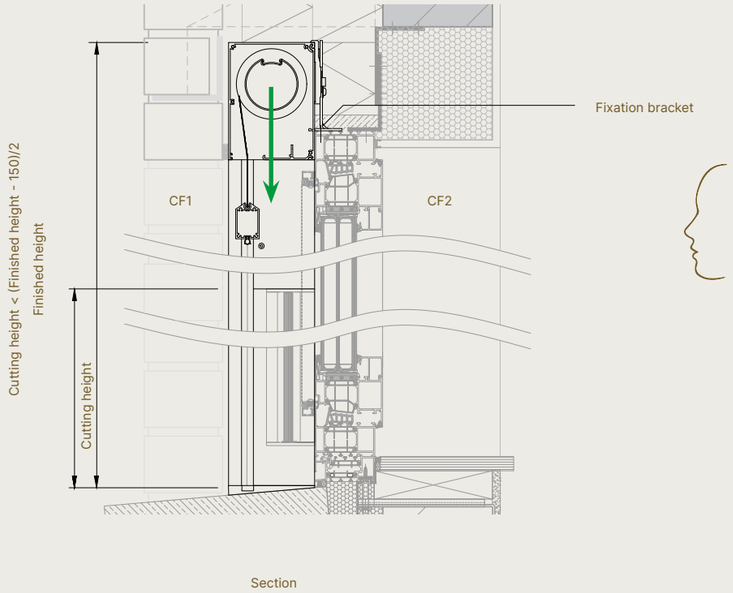
Base plate side guiding channel



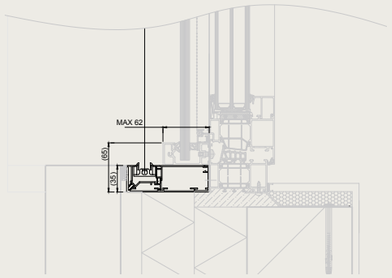
Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed
⊠ Window position

*Only possible with IM 7A

Fixscreen® 100 Slim - IM 7B - Drawing recessed balustrade

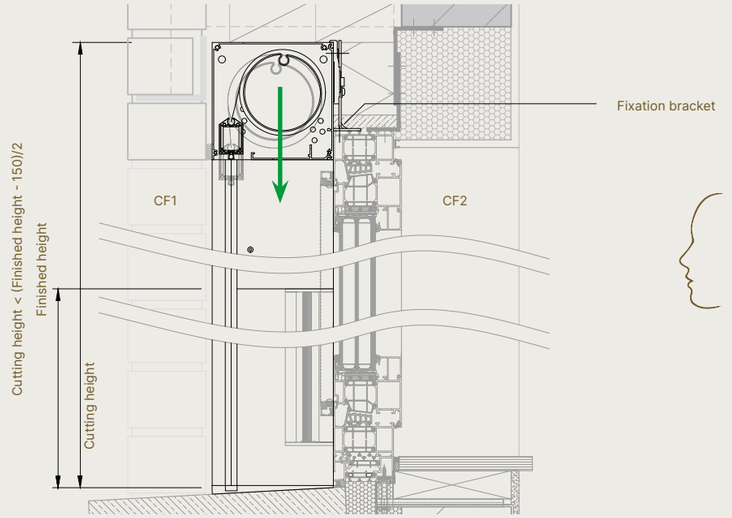


Section

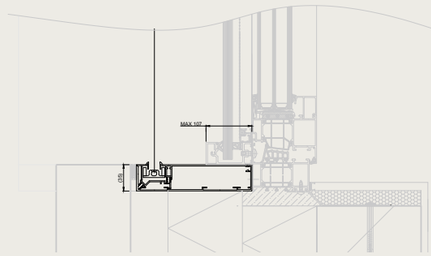


Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed

Fixscreen® 150 - IM 7B - Drawing recessed balustrade



Section



Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed

With Fixscreen 100 Slim IM 7B and Fixscreen 150 IM 7B, a cut can optionally be made in the deep side guiding channel if a balustrade is installed, so that the middle profile and front profile can easily be removed for service after installation.

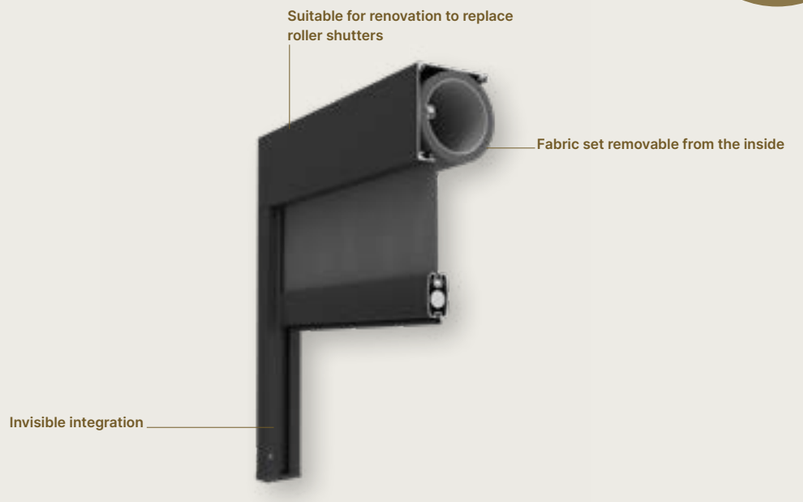
FIXSCREEN®
RECESSED ON TOP OF THE WINDOW

RENSON®

FIXSCREEN®

Recessed on top of the window IM 4

NEW BUILD AND EXTENSIVE RENOVATION



130 km/h

SMOOTH TECHNOLOGY

FIXSCREEN TECHNOLOGY

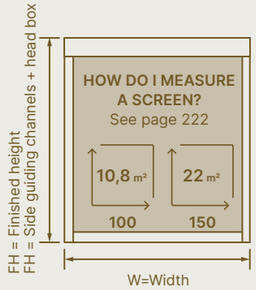
CONNECT & GO

Design	Fixscreen® 100	Fixscreen® 150
Head box dimensions (HxD)	100 mm x 100 mm	150 mm x 155 mm
Head box extension	-	
Square	-	✓
Softline	✓	-
Retractable bottom bar	✓	✓ (to FH ≤800 mm)
Recessed fabric tube	✓	
Base plate side guiding channel	At an angle of 0° or 5°	
Wind resistance		
Wind classification EN13561:2004	3	
Wind tunnel test report	N°113-25809	
Guaranteed wind resistance	Up to 130 km/h in closed position depending on dimensions	
Control		
Detecto Renson motor Safety First	-	
Somfy mechanic motor	✓	
Somfy IO radio-controlled motor	✓	
Certificates		
Declaration of Performance (DoP)	DOP-2015SC00002	
Durability test report	WTCB N°651 XE823 CAR4139	

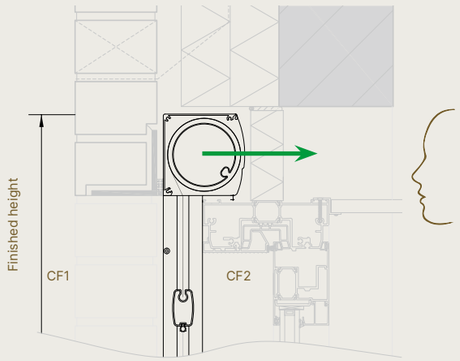
Dimensions		Fixscreen® 100		Fixscreen® 150	
Single screen					
Fibre glass fabric Sergé / Natté / Privacy Polyester fabric Soltis Veozip / Soltis Horizon 86 / Soltis Perform 92 Tuffscreen insect mesh	Min. width	700 mm		905 mm	
	Max. width	4000 mm	3000 mm	6000 mm	
	Max. height	2700 mm	3500 mm	6000 mm	
	Max. surface area	10.8 m²	10.5 m²	22 m²	
Blackout fibre glass fabric Satiné 21154 Blackout polyester fabric Soltis Opaque B92	Min. width	1000 mm		1000 mm	
	Max. width	2000 mm		4000 mm	6000 mm
	Max. height	2700 mm		4000 mm	2,600 mm
	Max. surface area	5.4 m²		16 m²	15.6 m²
Coupled screen with 1 motor					
Fibre glass fabric Sergé / Natté Soltis Veozip / Soltis Horizon 86 / Soltis Perform 92 polyester fabric Tuffscreen insect mesh	Min. section width	795 mm		1810 mm	
	Max. section width	4000 mm		5000 mm	
	Max. height	2700 mm		6000 mm	
	Max. total surface area	16.2 m²		22 m²	
Blackout fibre glass fabric Satiné 21154 Soltis Opaque B92 blackout polyester fabric	Min. section width	795 mm		1810 mm	
	Max. section width	2000 mm		4000 mm	
	Max. height	2700 mm		2,600 mm	
	Max. total surface area	10.8 m²		15.6 m²	
Coupled screen with 2 motors (IM 7A)					
Possible dimensions per section, per fabric type according to 'single screen' table	Max. Total width	6000 mm		6000 mm	
	Max. Total surface area	21 m²		36 m²	

NOTE

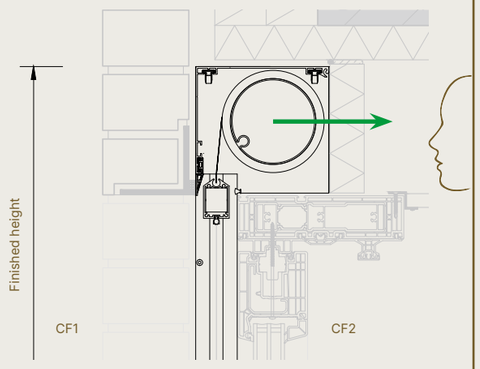
- The inner side is finished by the carpenter and must be detachable.
- Fixscreen 100: Finished height = window height + 5 mm + head box height
- Fixscreen 150: installation with minimum 2 people recommended. Weight: ± 23 kg/rm.



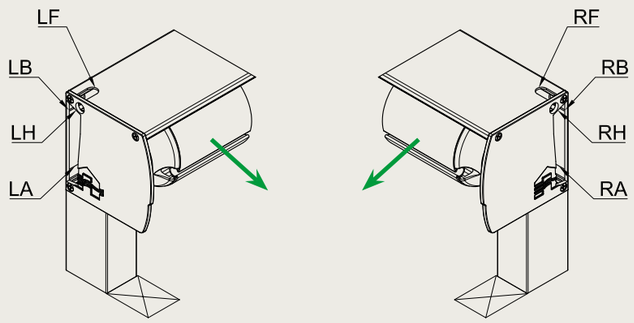
Fixscreen® 100 - Drawing recessed masonry



Fixscreen® 150 - Drawing recessed masonry

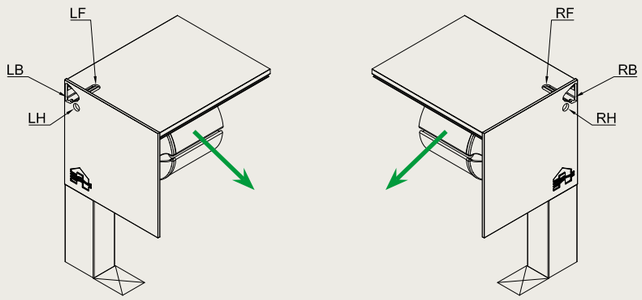


Fixscreen® 100 - Cable feed



Feed	Type of feed	Location of feed
A	Cable	rear
B	Cable	rear
F	Cable	top
H	Cable	side

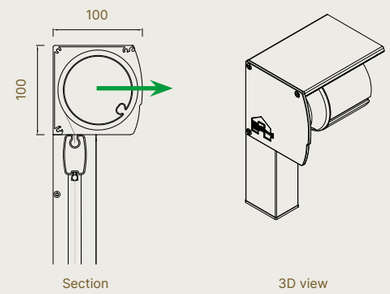
Fixscreen® 150 - Cable feed



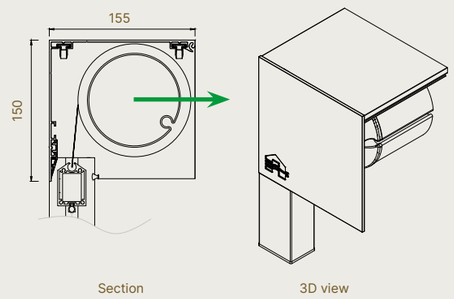
Feed	Type of feed	Location of feed
B	Cable	rear
F	Cable	top
H	Cable	side

Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed

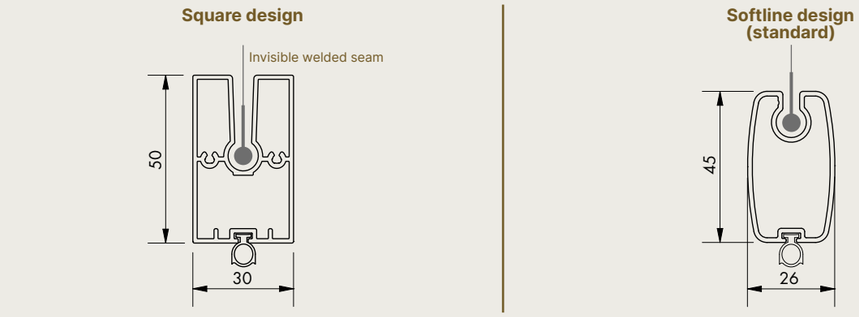
Fixscreen® 100 - Head box



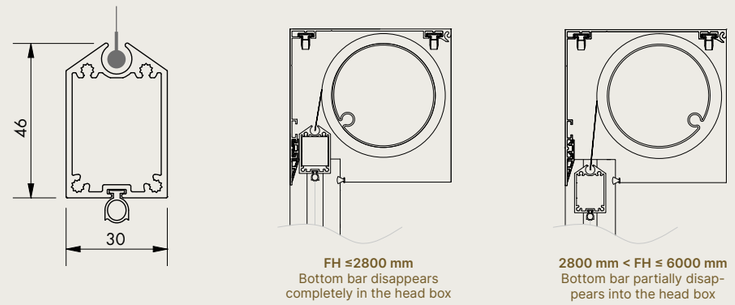
Fixscreen® 150 - Head box



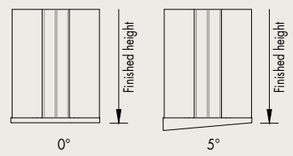
Fixscreen® 100 - Bottom bar



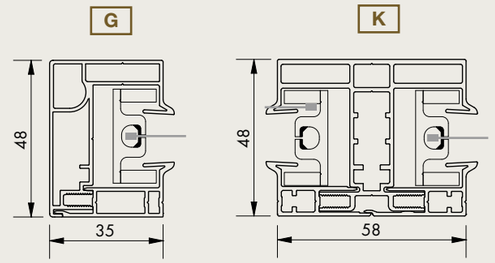
Fixscreen® 150 - Bottom bar



Base plate side guiding channel



Side guiding channels



Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed
⊠ Window position

FIXSCREEN® RECESSED

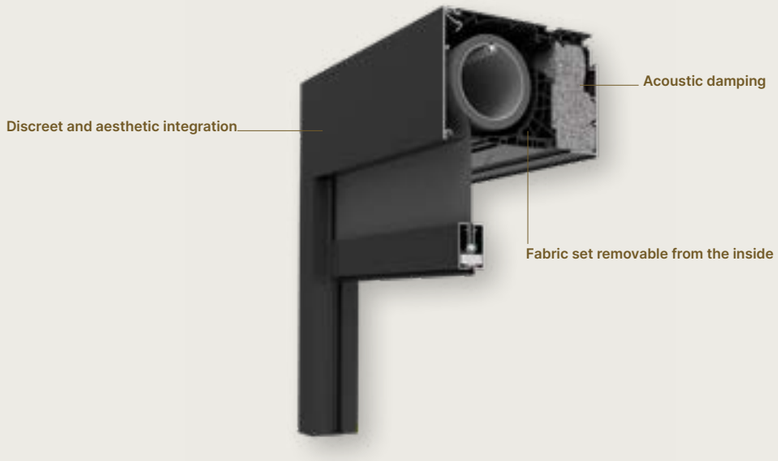
ON TOP OF THE WINDOW WITH ACOUSTICS OR VENTILATION

RENSON®

FIXSCREEN® MONO AK

Recessed on top of the window with acoustics IM 4

NEW BUILD AND EXTENSIVE RENOVATION



130 km/h

SMOOTH TECHNOLOGY

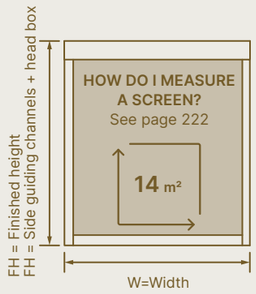
FIXSCREEN TECHNOLOGY

CONNECT & GO

CLICK & SAFE

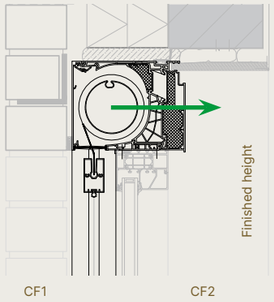
Design	Small	Medium	Large	X-Large	XX-Large
Head box size (HxD) (mm)	132 × 167	132 × 197	132 × 227	132 × 257	132 × 287
Compatible window thicknesses	50-94 mm	95-124 mm	125-154 mm	155-184 mm	185-215 mm
Wind resistance					
Wind classification EN13561:2004	3				
Wind tunnel test report	N°113-25809				
Guaranteed wind resistance	Up to 130 km/h in closed position depending on dimensions				
Control					
Detecto Renson motor Safety First	✓				
Somfy mechanic motor	✓				
Somfy IO radio-controlled motor	✓				
Comfort					
Acoustic damping Dnew (C;Ctr) (rolled up fabric)	47(-1;4)dB	50(-1;-3)dB	50(-1;-3)dB	50(-1;-3)dB	52(-2;-5)dB
Technical details					
With thermal break	✓				
U value (W/m2K)	0.92	0.53	0.54	0.54	0.55
Insect-proof	✓				
Certificates					
Declaration of Performance (DoP)	DOP-2015SC00002				
Durability test report	WTCB N°651 XE823 CAR4139				

Dimensions		
Single screen		
Fibre glass fabric Sergé / Natté / Privacy Soltis Horizon 86 / Soltis Perform 92 polyester fabric Tuffscreen insect mesh	Min. width	700 mm
	Max. width	4000 mm
	Max. height	3500 mm
	Max. surface area	14 m²
Blackout fibre glass fabric Satiné 21154 Blackout polyester fabric Soltis Opaque B92	Min. width	1000 mm
	Max. width	2000 mm
	Max. height	2700 mm
	Max. surface area	5.4 m²

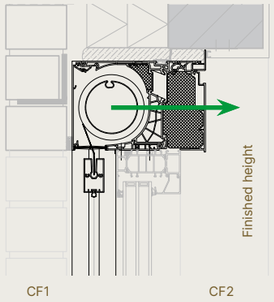


Drawing recessed masonry

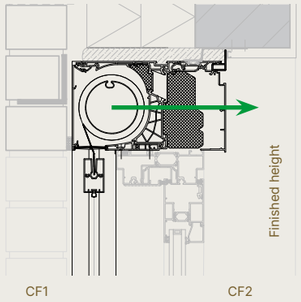
Small
(for window depth 50-94 mm)



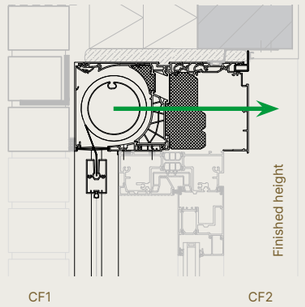
Medium
(for window depth 95-124 mm)



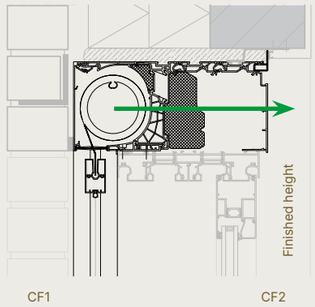
Large
(for window depth 125-154 mm)



X-Large
(for window depth 155-184 mm)



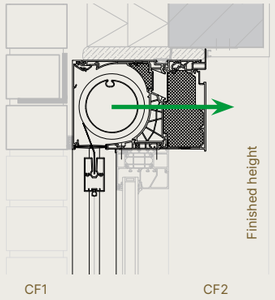
XX-Large
(for window depth 185-215 mm)



Improved acoustic comfort or U value

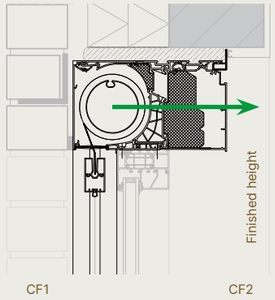
Optional: deeper head box size compared to standard window group for better acoustic comfort or U value

Example 1: Medium on narrower window



(+ extra finishing profile 30 mm)

Example 2: Large on narrower window



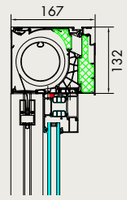
(+ extra finishing profile 60 mm)

Head box type	Dimensions of optional finishing profile
Small	no finishing profile
Medium	finishing profile 30 mm
Large	finishing profile 60 mm
X-Large	finishing profile 90 mm
XX-Large	finishing profile 120 mm

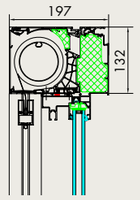
Viewing direction determines choice of left or right cable feed → direction in which fabric set should be removed

Head box

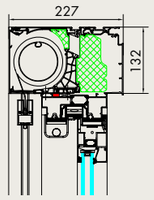
Small



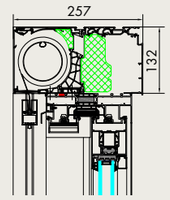
Medium



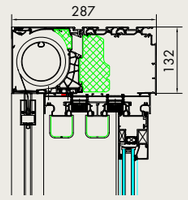
Large



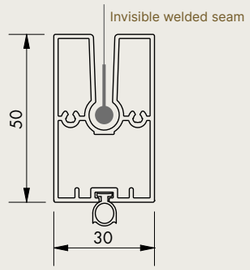
XLarge



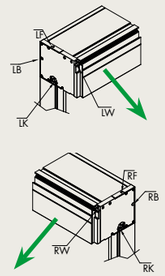
XXLarge



Bottom bar



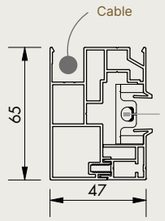
Cable feed



Feed	Feed location
B	rear
F	top
K	outer side
W	inner side

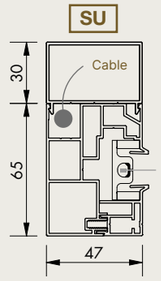
Side guiding channels

S



S = side guiding channel

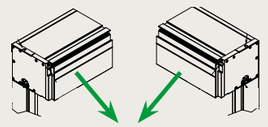
SU



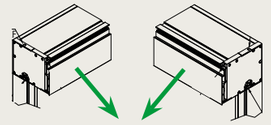
SU = side guiding channel
(with deepening profile)

Optional finishing profile

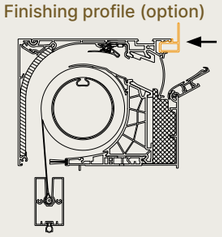
Stucco stop (standard)



Continuous profile (option)



Finishing profile (option)



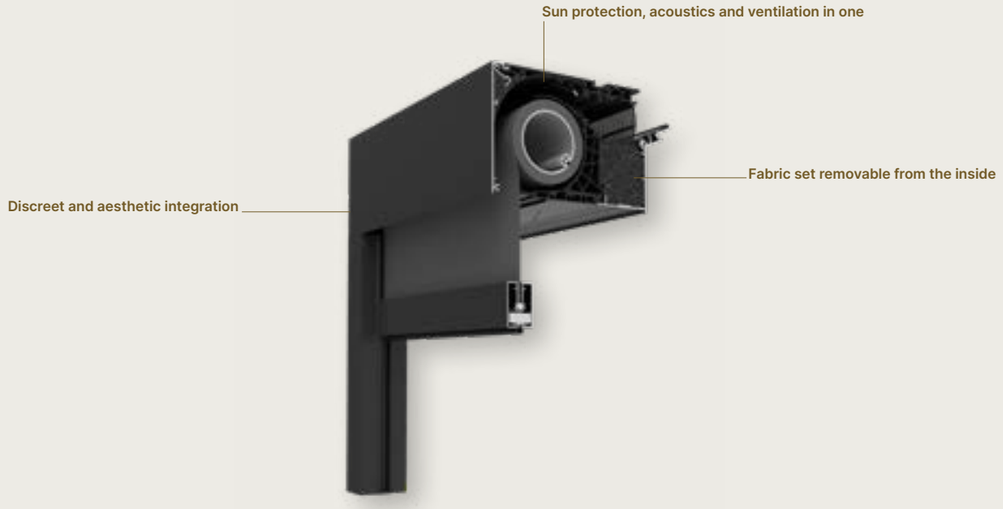
Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed
☒ Window position

VERTICAL SUN PROTECTION

FIXVENT® MONO AK

Recessed on top of the window with acoustics or ventilation IM 4

NEW BUILD AND EXTENSIVE RENOVATION

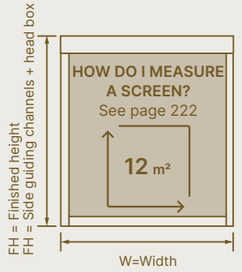


130 km/h | SMOOTH TECHNOLOGY | FIXSCREEN TECHNOLOGY | CONNECT & GO | CLICK & SAFE

Design	Small	Medium	Large	X-Large	XX-Large
Head box size (HxD) (mm)	132 × 167	132 × 197	132 × 227	132 × 257	132 × 287
Compatible window thicknesses	50-94 mm	95-124 mm	125-154 mm	155-184 mm	185-215 mm
Wind resistance					
Wind classification EN13561:2004	3				
Wind tunnel test report	N°113-25809				
Guaranteed wind resistance	Up to 130 km/h in closed position depending on dimensions				
Control					
Detecto Renson motor Safety First	✓				
Somfy mechanic motor	✓				
Somfy IO radio-controlled motor	✓				
Certificates					
Declaration of Performance (DoP)	DOP-2015SC00002				
Durability test report	WTCB N°651 XE823 CAR4139				

Dimensions		
Single screen		
Fibre glass fabric Sergé / Natté / Privacy Polyester fabric Soltis Horizon 86 / Soltis Perform 92 Tuffscreen insect mesh	Min. width	700 mm
	Max. width	4000 mm
	Max. height	3000 mm
	Max. surface area	12 m²
Blackout fibre glass fabric Satiné 21154 Blackout polyester fabric Soltis Opaque B92	Min. width	1000 mm
	Max. width	2000 mm
	Max. height	2700 mm
	Max. surface area	5.4 m²

NOTE
- Small head box not available for the Fixvent Mono ULTRA/EXTREME.

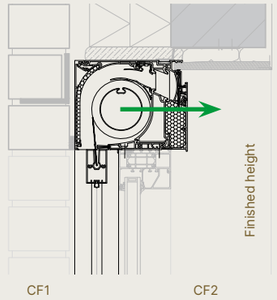


Ventilation		
Airflow		
Equivalent Area	Fixvent® Mono AK	18324 mm²/m
	Fixvent® Mono AK ULTRA	4836 mm²/m
	Fixvent® Mono AK EXTREME	2800 mm²/m
Q at 1 Pa	Fixvent® Mono AK	12,8 l/s/m
	Fixvent® Mono AK ULTRA	3,7 l/s/m
	Fixvent® Mono AK EXTREME	2,1 l/s/m

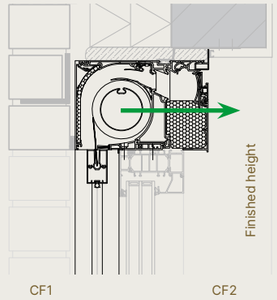
Comfort	Small	Medium	Large	X-Large	XX-Large
Acoustic insulation D_{new} ($C;C_{tr}$) in open position (rolled up fabric)					
Fixvent® Mono AK	33(0;-2)dB	35(0;-3)dB	36(-1;-4)dB	37(-1;-4)dB	40(-1;-4)dB
Fixvent® Mono AK Ultra	n/a	38(0;-2)dB	40(-1;-4)dB	43(-1;-4)dB	45(-1;-5)dB
Fixvent® Mono AK Extreme	n/a	43(0;-3)dB	43(0;-3)dB	46(-1;-4)dB	48(-2;-5)dB
Technical details					
Self-regulating	at 2 Pa				
With thermal break	✓				
U value (W/m²K)					
Fixvent® Mono AK	1.47	0.98	0.80	0.77	0.72
Fixvent® Mono AK Ultra	n/a	0.70	0.55	0.46	0.41
Fixvent® Mono AK Extreme	n/a	0.62	0.47	0.38	0.32
Leakage flow in closed position	< 15% at 50 Pa				
Insect-proof	✓				

Drawing recessed masonry

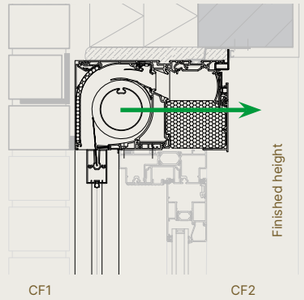
Small
(for window depth 50-94 mm)



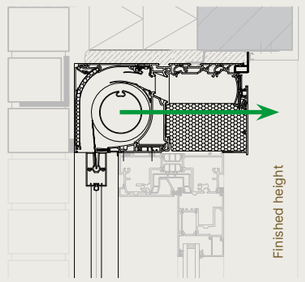
Medium
(for window depth 95-124 mm)



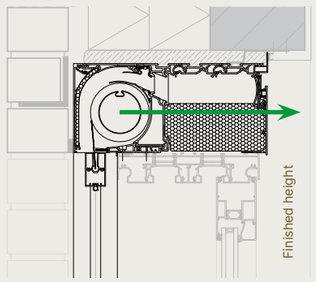
Large
(for window depth 125-154 mm)



X-Large
(for window depth 155-184 mm)



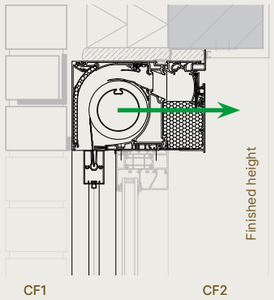
XX-Large
(for window depth 185-215 mm)



Improved acoustic comfort or U value

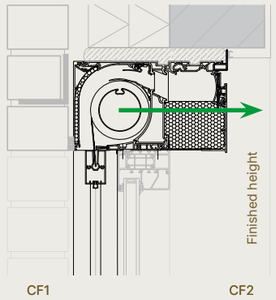
Optional: deeper head box size compared to standard window group for better acoustic comfort or U value

Example 1: Medium on narrower window



(+ extra finishing profile 30 mm)

Example 2: Large on narrower window



(+ extra finishing profile 60 mm)

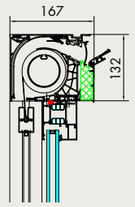
Head box type	Dimensions of optional finishing profile
Small	no finishing profile
Medium	finishing profile 30 mm
Large	finishing profile 60 mm
X-Large	finishing profile 90 mm
XX-Large	finishing profile 120 mm

Note: The Fixvent Mono AK Ultra/Extreme is always supplied with finishing profile as standard.

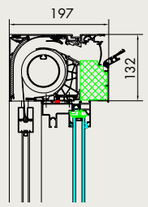
Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed

Head box

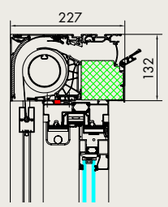
Small



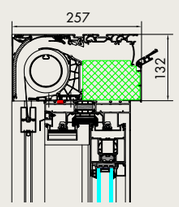
Medium



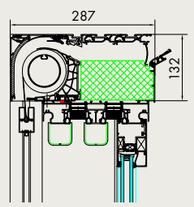
Large



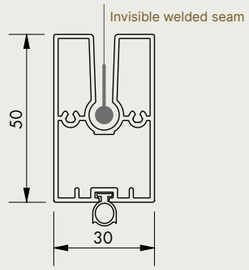
XLarge



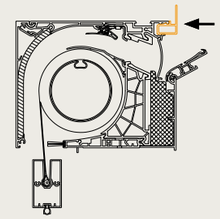
XXLarge



Bottom bar

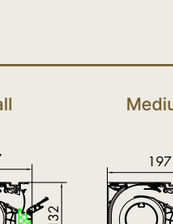


Optional finishing profile



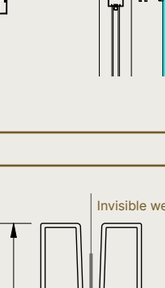
Side guiding channels

S



S = side guiding channel

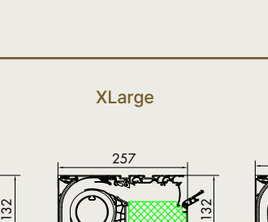
SU

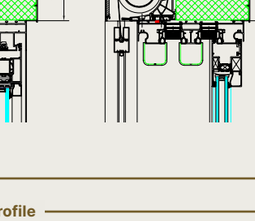


SU = side guiding channel
(with deepening profile)

Cable feed

Stuc deposits (standard)





Feed	Feed location
B	outer side
F	top
K	via side guiding channel
W	inner side

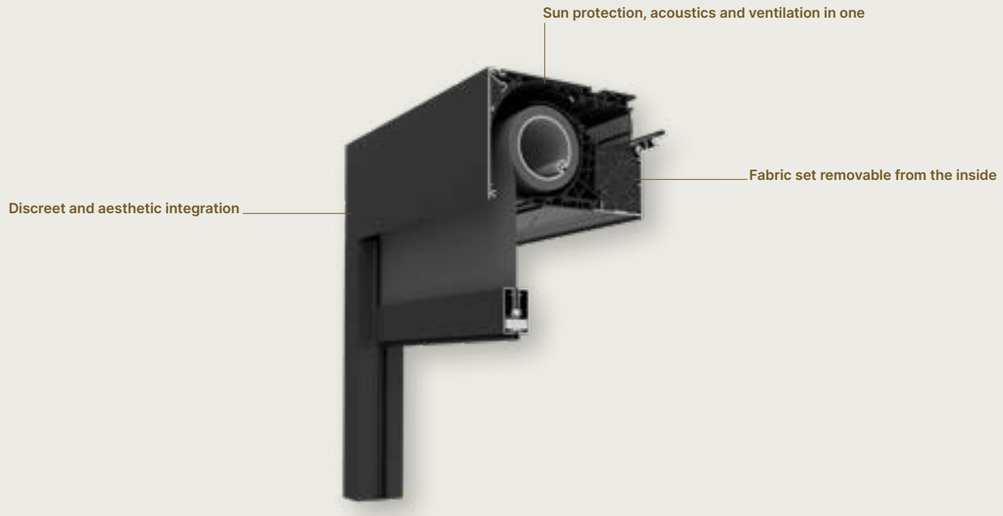
Note:
- The Fixvent Mono AK ULTRA/EXTREME is always supplied with finishing profile as standard.
- Small head box not applicable for the Fixvent ULTRA/EXTREME.

Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed
☒ Window position

FIXVENT® MONO UT

Recessed on the window with acoustics or ventilation IM 4

UTILITY CONSTRUCTION

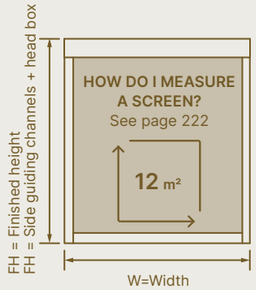


130 km/h | SMOOTH TECHNOLOGY | FIXSCREEN TECHNOLOGY | CONNECT & GO | CLICK & SAFE

Design	Small	Medium	Large	X-Large	XX-Large
Head box size (HxD) (mm)	132 × 167	132 × 197	132 × 227	132 × 257	132 × 287
Compatible window thicknesses	50-94 mm	95-124 mm	125-154 mm	155-184 mm	185-215 mm
Wind resistance					
Wind classification EN13561:2004	3				
Wind tunnel test report	N°113-25809				
Guaranteed wind resistance	Up to 130 km/h in closed position depending on dimensions				
Control					
Detecto Renson motor Safety First	✓				
Somfy mechanic motor	✓				
Somfy IO radio-controlled motor*	✓				
Certificates					
Declaration of Performance (DoP)	DOP-2015SC00002				
Durability test report	WTCB N°651 XE823 CAR4139				

Dimensions		
Single screen		
Fibre glass fabric Sergé / Natté / Privacy Soltis Horizon 86 / Soltis Perform 92 polyester fabric Tuffscreen insect mesh	Min. width	700 mm
	Max. width	4000 mm
	Max. height	3000 mm
	Max. surface area	12 m²
Blackout fibre glass fabric Satiné 21154 Blackout polyester fabric Soltis Opaque B92	Min. width	1000 mm
	Max. width	2000 mm
	Max. height	2700 mm
	Max. surface area	5.4 m²

NOTE
- Small head box not available for the Fixvent Mono UT/ULTRA.



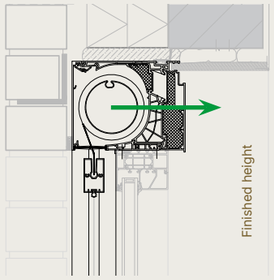
Ventilation		
Airflow		
Equivalent Area	Fixvent® Mono UT	19724 mm²/m
	Fixvent® Mono UT ULTRA	4836 mm²/m
Q at 1 Pa	Fixvent® Mono UT	15.5 l/s/m
	Fixvent® Mono UT ULTRA	3.7 l/s/m

Comfort	Small	Medium	Large	X-Large	XX-Large
Acoustic insulation D_{new} ($C;C_{tr}$) in open position (rolled up fabric)					
Fixvent® Mono UT	33(0;-2)dB	35(0;-3)dB	36(-1;-4)dB	37(-1;-4)dB	40(-1;-4)dB
Fixvent® Mono UT Ultra	n/a	38(0;-2)dB	40(-1;-4)dB	43(-1;-4)dB	45(-1;-5)dB

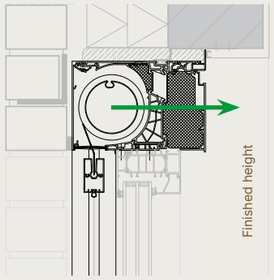
Technical details					
Self-regulating	at 10 Pa				
With thermal break	✓				
U value (W/m²K)					
Fixvent® Mono UT Ultra	1.47	0.98	0.80	0.77	0.72
Fixvent® Mono UT Ultra	n/a	0.70	0.55	0.46	0.41
Leakage flow in closed position	< 15% at 50 Pa				
Insect-proof	✓				

Drawing recessed masonry

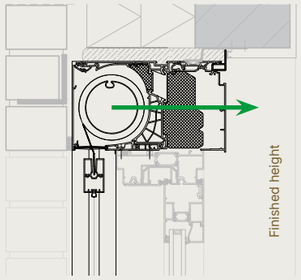
Small
(for window depth 50-94 mm)



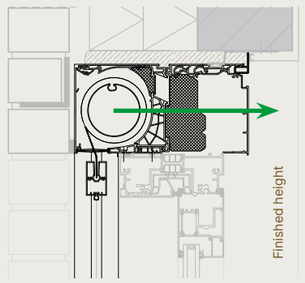
Medium
(for window depth 95-124 mm)



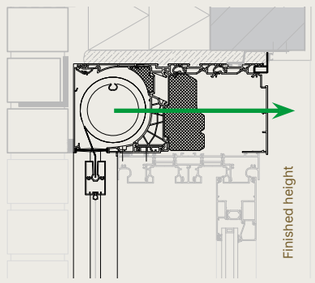
Large
(for window depth 125-154 mm)



X-Large
(for window depth 155-184 mm)



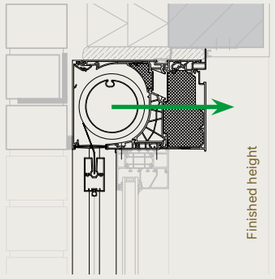
XX-Large
(for window depth 185-215 mm)



Improved acoustic comfort or U value

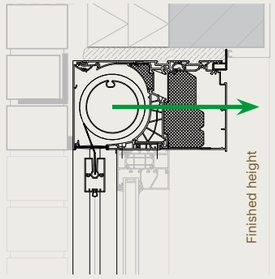
Optional: deeper head box size compared to standard window group for better acoustic comfort or U value

Example 1: Medium on narrower window



(+ extra finishing profile 30 mm)

Example 2: Large on narrower window



(+ extra finishing profile 60 mm)

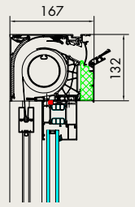
Head box type	Dimensions of optional finishing profile
Small	no finishing profile
Medium	finishing profile 30 mm
Large	finishing profile 60 mm
X-Large	finishing profile 90 mm
XX-Large	finishing profile 120 mm

Note: The Fixvent Mono UT Ultra is always supplied with finishing profile as standard.

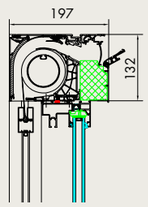
Viewing direction determines choice of left or right cable feed → direction in which fabric set should be removed

Head box

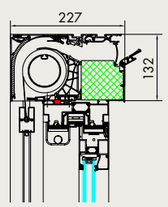
Small



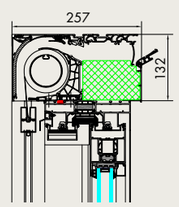
Medium



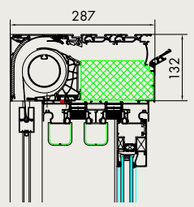
Large



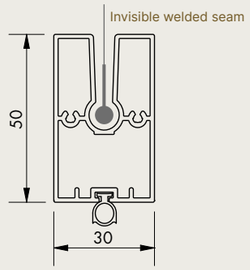
XLarge



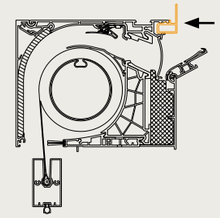
XXLarge



Bottom bar

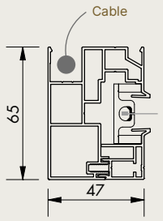


Optional finishing profile



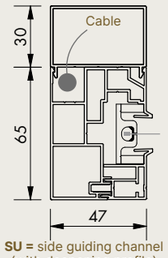
Side guiding channels

S



S = side guiding channel

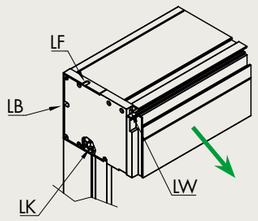
SU

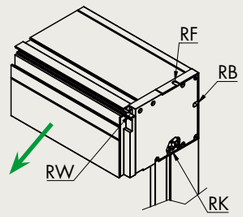


SU = side guiding channel (with deepening profile)

Cable feed

Stucco stop (standard)





Feed	Type of feed	Location of feed
B	Cable	outer side
F	Cable	top
K	Cable	via side guiding channel
W	Cable	inner side

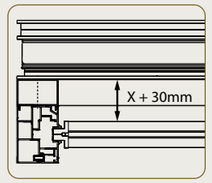
Note:
- The Fixvent Mono UT ULTRA is always supplied with finishing profile as standard.
- - Small head box not applicable for the UT ULTRA version

Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed
☒ Window position

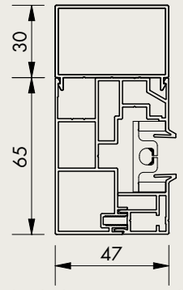
VERTICAL SUN PROTECTION

Option side guiding channel with deepening profile

The optional side guiding channel with deepening profile allows you to create extra space between window and fabric (e.g. to install a fixed or sliding mosquito net). The deepening profile is available in a fixed size - 30 mm x 47 mm - and therefore ensures that the space between the bottom bar and the window increases by 30 mm. When choosing this option, make sure that the head box size is still sufficient. Depending on the window depth, a larger head box may be required.



Side guiding channel



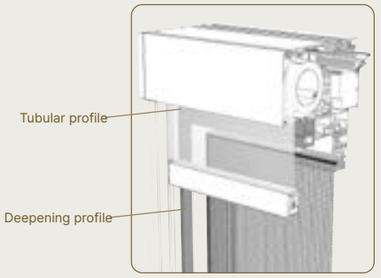
(with deepening profile)

Option tubular profile

When selecting side guiding channels with deepening profile, horizontal support at the bottom of the Fixvent Mono AK/UT and Fixscreen Mono AK head box is required. This can be done using the optional tubular profile. The head box must be screwed to the tubular profile (or other horizontal support) to safeguard correct operation and the warranty. The optional tubular profile is available in two different versions (H x D): 15 mm x 30 mm or 30 mm x 30 mm.

What does this mean specifically?

Single screen	• Side guiding channel with deepening profile (SU) x2 pieces according to finished height (FH) - head box height • Tubular profile x1 piece according to finished width - 94 mm

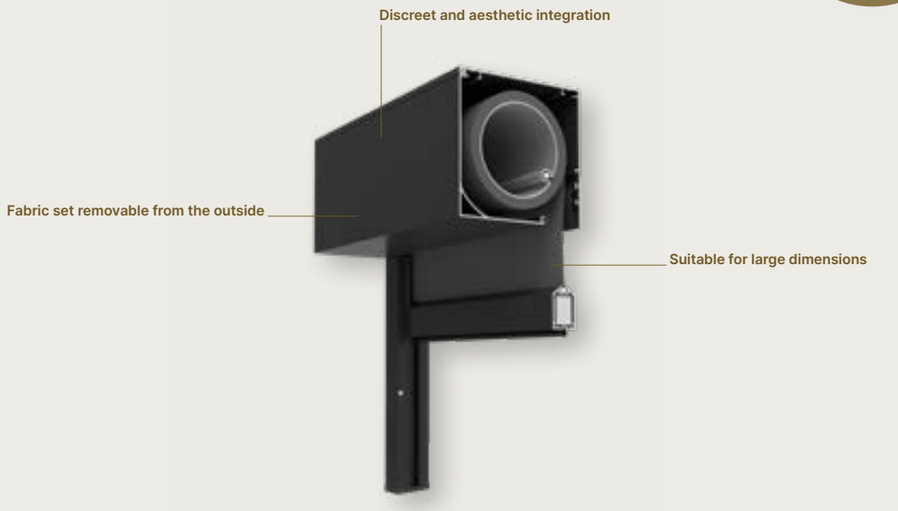


FIXSCREEN®
FREESTANDING

FIXSCREEN®

Freestanding IM 1F

FREESTANDING
RETROFIT

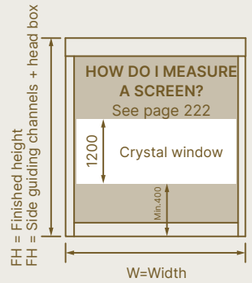


60 km/h
SMOOTH TECHNOLOGY
FIXSCREEN TECHNOLOGY
CONNECT & GO

Design	
Head box dimensions (HxD)	150 mm x 155 mm
head box extension	500 mm
Square	✓
Softline	✓
Retractable bottom bar	✓ (to FH ≤2800 mm)
Recessed fabric tube	✓
Base plate side guiding channel	At an angle of 0° or 5°
Wind resistance	
Wind classification EN13561:2004	3
Wind tunnel test report	N°113-25809
Guaranteed wind resistance	Up to 60 km/h in closed position
Control	
Detecto Renson motor Safety First	✓
Somfy mechanic motor	✓
Somfy (Meastria*) IO radio-controlled motor	✓
Certificates	
Declaration of Performance (DoP)	DOP-2015SC00002
Durability test report	WTCB N°651 XE823 CAR4139

Dimensions		
Single screen		
Fibre glass fabric Sergé / Natté / Privacy Tuffscreen insect mesh	Min. width	905 mm
	Max. width	6000 mm
	Max. height	3000 mm
	Max. surface area	18 m²

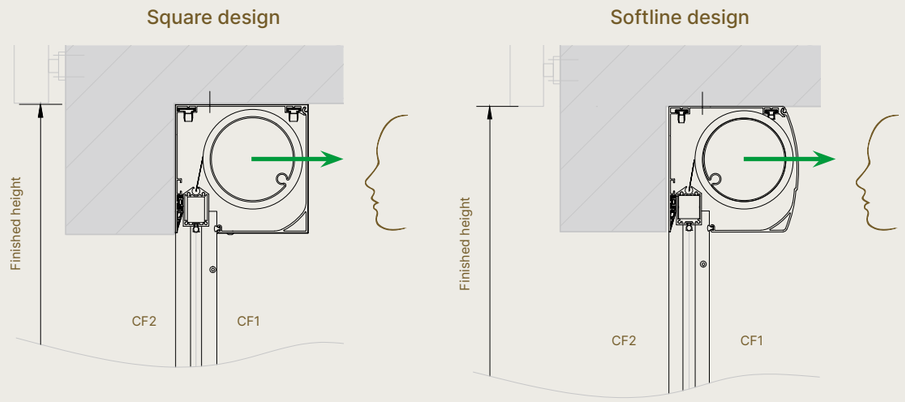
NOTE
- A wind sensor must be used for a finished height > 2800 mm.
- *For Somfy Maestria IO, the restriction applies: width ≥ 1200 mm
- It is recommended that at least two people install the product. Weight: ± 23 kg/rm.



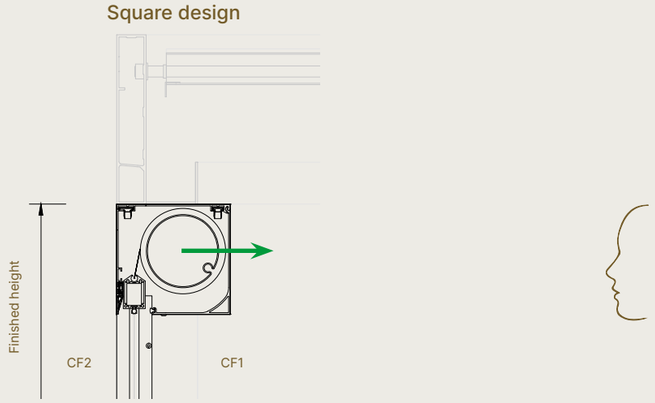
Option crystal window in the full width

A crystal fabric can be chosen to maintain optimal contact with the outdoors. This is a transparent fabric that is integrated into a Fixscreen fibre glass fabric in a freestanding application. The crystal window in the full width of the screen is 1200 mm high. There must be a distance of 400 mm between the crystal window in the full width and the bottom.

Drawing surface-mounted balcony

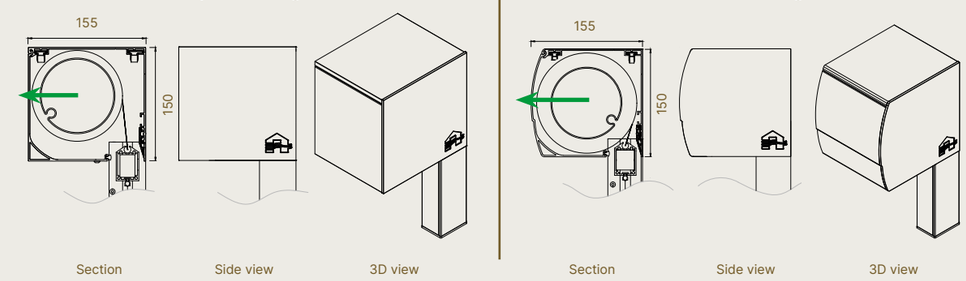


Drawing Algarve

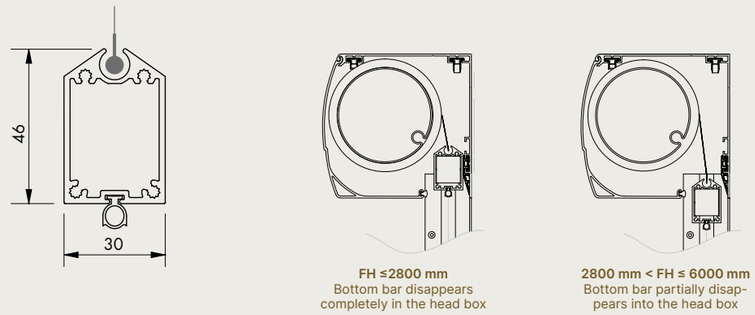


Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed

Head box



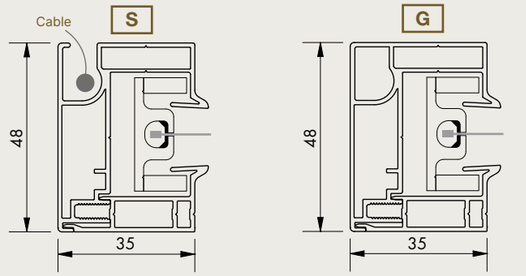
Bottom bar



FH ≤2800 mm
Bottom bar disappears completely in the head box

2800 mm < FH ≤ 6000 mm
Bottom bar partially disappears into the head box

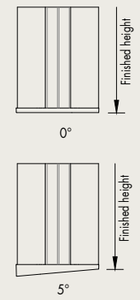
Side guiding channels



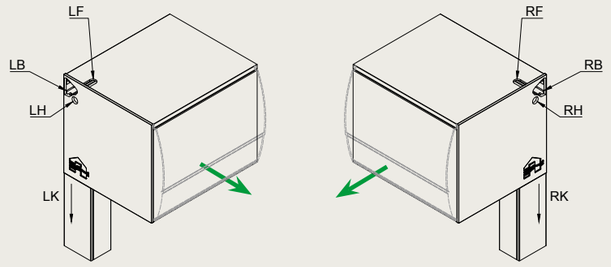
S = open side guiding channel (standard)

G = closed side guiding channel

Base plate side guiding channel



Cable feed



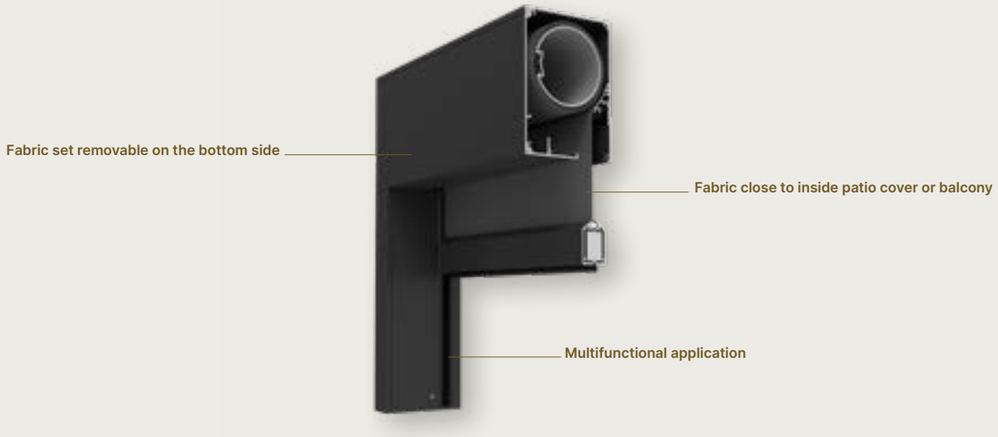
Feed	Feed location
B	rear
F	top
H	side
K	open side guiding channel

Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed
⊠ Window position

FIXSCREEN®

Freestanding IM 7F

FRONT FREESTANDING CONSTRUCTION



60 km/h

SMOOTH TECHNOLOGY

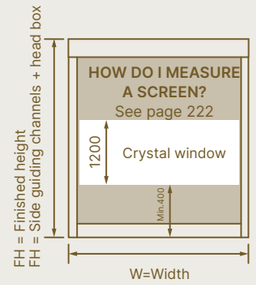
FIXSCREEN TECHNOLOGY

CONNECT & GO

Design	Fixscreen® 100 Slim	Fixscreen® 150
Head box dimensions (HxD)	150 mm x 110 mm	150 mm x 155 mm
head box extension	500 mm	
Fabric tube with click-profile	✓	
Square	✓	
Softline	-	
Retractable bottom bar	✓	✓ (to FH ≤2800 mm)
Recessed fabric tube	✓	
Base plate side guiding channel	At an angle of 0° or 5°	
Wind resistance		
Wind classification EN13561:2004	3	
Wind tunnel test report	N°113-25809	
Guaranteed wind resistance	Up to 60 km/h in closed position	
Control		
Detecto Renson motor Safety First	✓	
Somfy mechanic motor	✓	
Somfy (Meastria*) IO radio-controlled motor	✓	
Certificates		
Declaration of Performance (DoP)	DOP-2015SC00002	
Durability test report	WTCB N°651 XE823 CAR4139	

Dimensions		Fixscreen® 100 Slim	Fixscreen® 150
Single screen			
Fibre glass fabric Sergé / Natté Soltis Veozip polyester fabric Tuffscreen insect mesh	Min. width	1000 mm	909 mm
	Max. width	6000 mm	6000 mm
	Max. height	2800 mm	3000 mm
	Max. surface area	16.8 m²	18 m²
Privacy fibre glass fabric	Min. width	1000 mm	-
	Max. width	4500 mm	-
	Max. height	2800 mm	-
	Max. surface area	12.6 m²	-

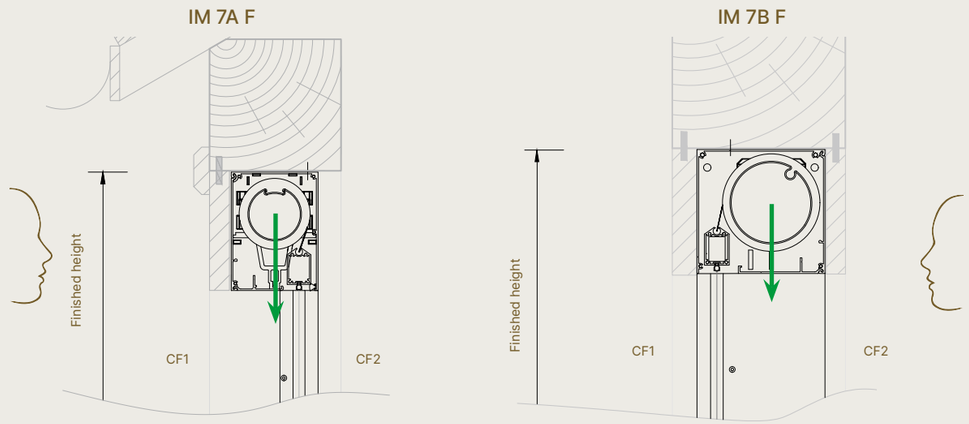
NOTE
- Fixscreen 150: It is recommended that at least two people install the product. Weight: ± 23 kg/rm.
- Head box extension not possible with side guiding channel D
- Plaster profile is optional
- Fixscreen 100 Slim F: Crystal window in the full width can be applied up to a maximum system width of 4500 mm.
- A wind sensor must be used for a finished height > 2800 mm.
- *For Somfy Maestria IO the restrictions below apply:
  Fixscreen 100 Slim: Width ≥ 1200 mm - Height ≤ 2800 mm
  Fixscreen 150: Width ≥ 1200 mm
- Joining is not possible



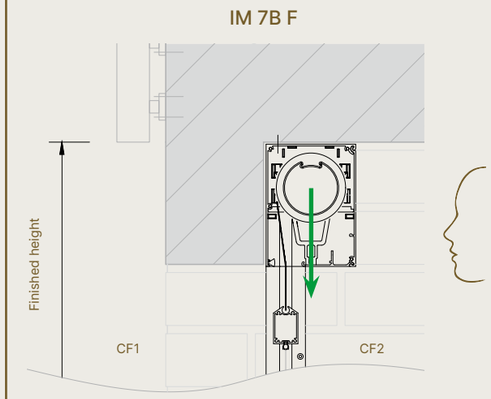
Option crystal window in the full width

A crystal fabric can be chosen to maintain optimal contact with the outdoors. This is a transparent fabric that is integrated into a Fixscreen fibre glass fabric in a freestanding application. The crystal window in the full width of the screen is 1200 mm high. There must be a distance of 400 mm between the crystal window in the full width and the bottom.

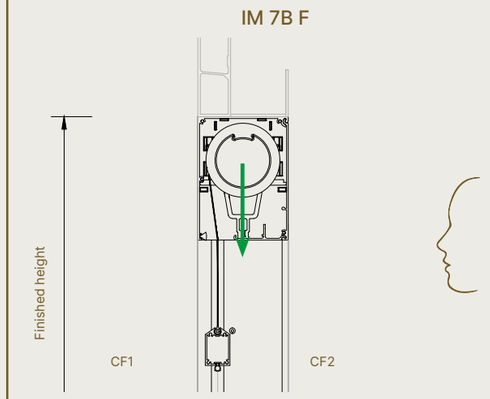
Drawing recessed wood patio cover



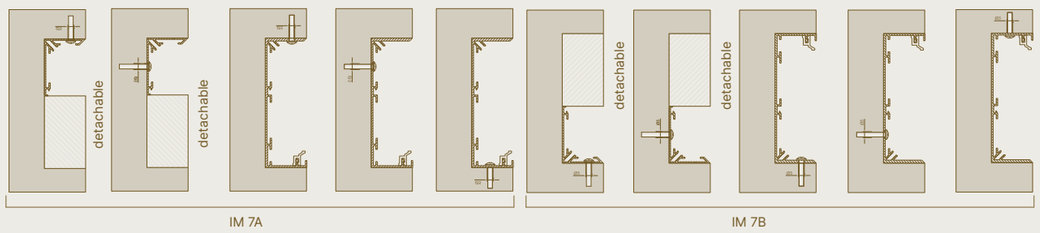
Drawing recessed balcony



Drawing recessed Algarve

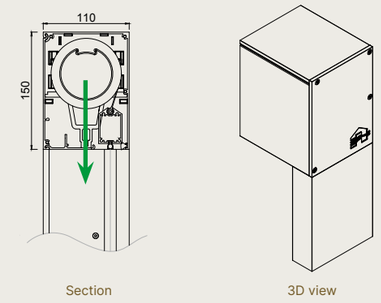


Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed

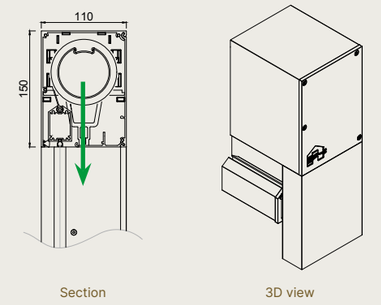


Note: When choosing the narrow side guiding channel G, the customer must foresee something detachable under the head box in order to be able to disassemble the fabric set underneath (H = min. 680 mm).

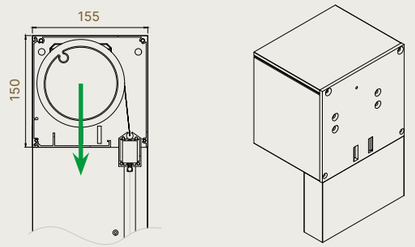
Fixscreen® 100 Slim - IM 7A F - Head box



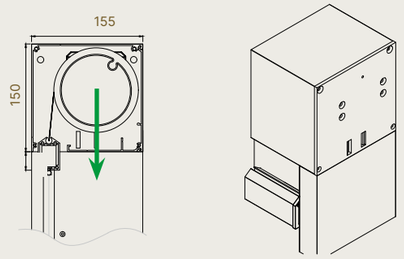
Fixscreen® 100 Slim - IM 7B F - Head box



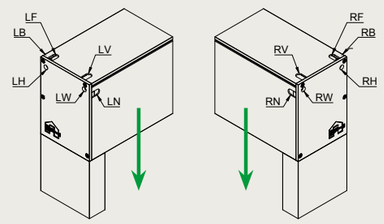
Fixscreen® 150 - IM 7A F - Head box



Fixscreen® 150 - IM 7B F - Head box

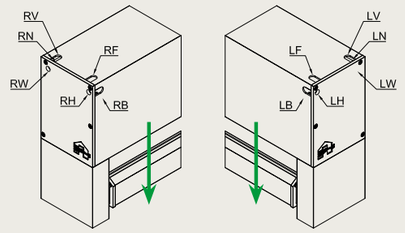


Cable feed - IM 7A F



Feed	Feed location
B	rear
F	top
H	side
N	front
V	top
W	side

Cable feed - IM 7B F

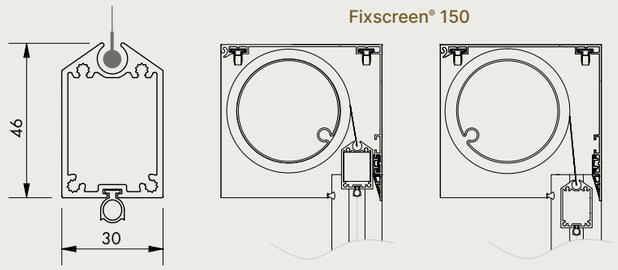


Feed	Feed location
B	rear
F	top
H	side
N	front
V	top
W	side

Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed
⊠ Window position

Bottom bar

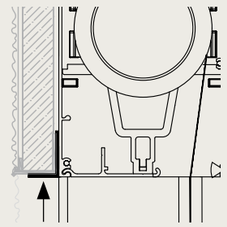
Fixscreen® 150



FH ≤2800 mm
Bottom bar disappears completely in the head box

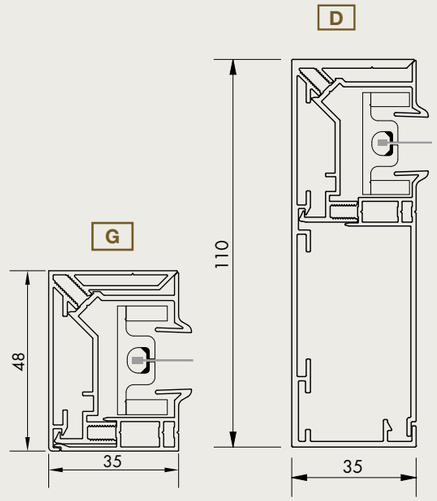
2800 mm < FH ≤ 6000 mm
Bottom bar partially disappears into the head box

Plaster profile



Plaster profile 20 mm x 30 mm
of 30 mm x 30 mm

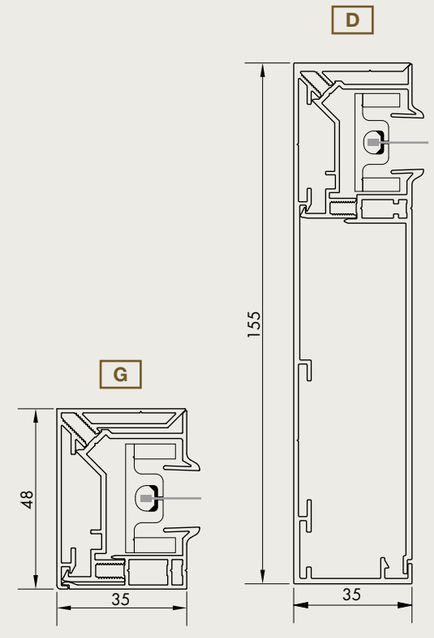
Fixscreen® 100 Slim - Side guiding channels



G = closed side guiding channel

D = deep side guiding channel (standard)

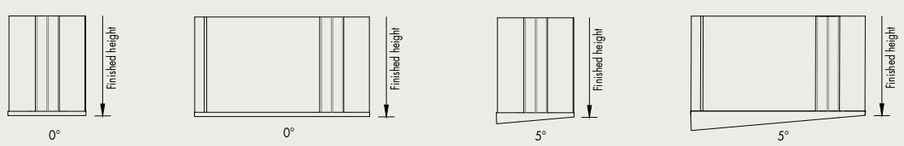
Fixscreen® 150 - Side guiding channels



G = closed side guiding channel

D = deep side guiding channel (standard)

Base plate side guiding channel



Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed
☒ Window position

RENSON®

VERTICAL SUN PROTECTION

FIXSCREEN® READY

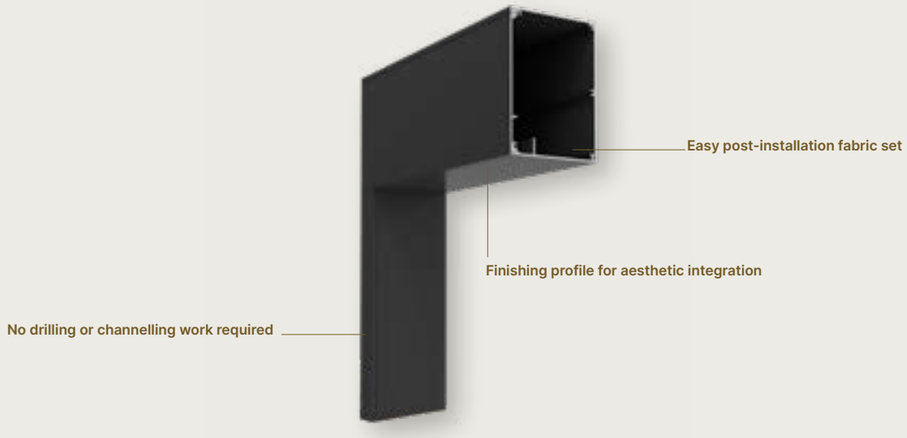
The Fixscreen Ready principle entails that all necessary Fixscreen features (for later installation of a fabric set) are already available. Fixscreen Ready is a great solution for projects, series construction and apartment construction. It provides a lower threshold for providing fabric sun protection while still offering an integrated solution. This adds value to the residential unit, and customers can decide for themselves when to integrate a fabric set to increase living comfort.

FIXSCREEN® READY

NEW BUILD

Recessed in front of the window IM 7

Installation method **7A** fabric close to the window
Installation method **7B** fabric away from the window
Combines perfectly with screen, door handle...

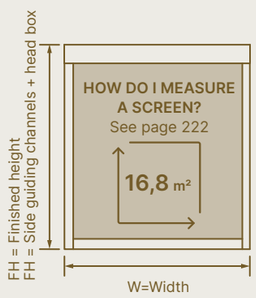


130 km/h | SMOOTH TECHNOLOGY | FIXSCREEN TECHNOLOGY | CONNECT & GO

Design	Fixscreen® Ready 100 Slim
Head box dimensions (HxD)	150 mm x 110 mm
Head box extension	-
Square	✓
Softline	-
Retractable bottom bar	✓
Base plate side guiding channel	At an angle of 0° or 5°
Wind resistance	
Wind classification EN13561:2004	3
Wind tunnel test report	N°113-25809
Guaranteed wind resistance	Up to 130 km/h in closed position
Control	
Detecto Renson motor Safety First	✓
Somfy mechanic motor	✓
Somfy (Meastria*) IO radio-controlled motor	✓
Certificates	
Declaration of Performance (DoP)	DOP-2015SC00002
Durability test report	WTCB N°651 XE823 CAR4139

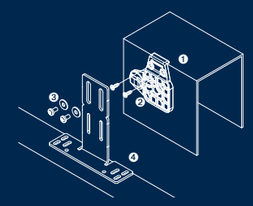
Dimensions			
Single screen			
Fibre glass fabric Sergé/Natté **Soltis Veozip polyester fabric** **Tuffscreen insect mesh**	Min. width	700 mm	
	Max. width	6000 mm	4000 mm
	Max. height	2800 mm	4000 mm
	Max. surface area	16.8 m²	16 m²
Privacy fibre glass fabric **Polyester fabric Soltis Horizon 86 / Soltis Perform 92**	Min. width	700 mm	
	Max. width	4500 mm	3000 mm
	Max. height	2800 mm	3500 mm
	Max. surface area	12.6 m²	10.5 m²
Blackout fibre glass fabric Satiné 21154 **Blackout polyester fabric Soltis Opaque B92**	Min. width	1000 mm	
	Max. width	400 mm	
	Max. height	2800 mm	
	Max. surface area	11.2 m²	

NOTE
- *For Somfy Maestria IO the following restrictions apply: width ≥ 1600 mm - height ≤ 2800 mm
- Choice of screen control, cable feed and side control are determined when ordering the empty head box.
- The warranty number for the empty head box provides all the information to order the fabric set: dimensions of the screens, installation method, motor and fabric selection.
- The warranty number can be found on the sticker on the internal side of the head box's finishing profile, and/or via the QR code on the visible side.
- Head box extension not possible
- Plaster profile and fixation bracket optional

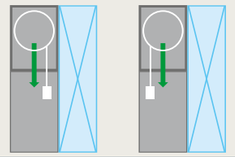


Fixation bracket for rapid mounting

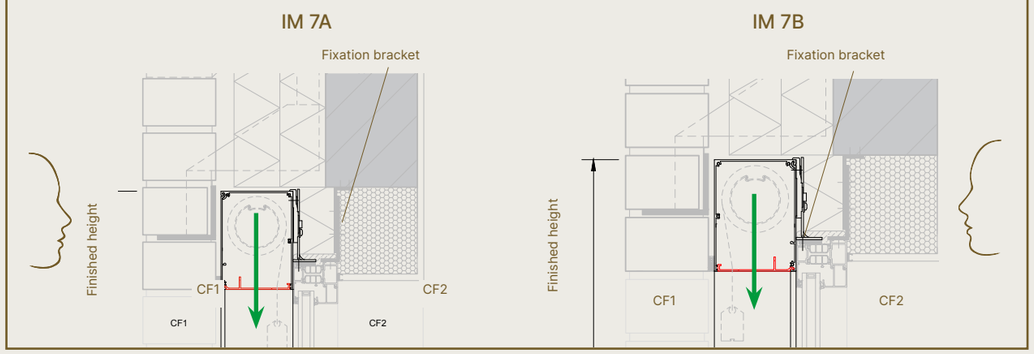
The fixation brackets offer a simple solution for rapid mounting to the window frame. The ingenious one-fits-all design of the fixation bracket ensures all screen types can be secured using the same accessory.
More info on www.renson.eu/fixation-brackets



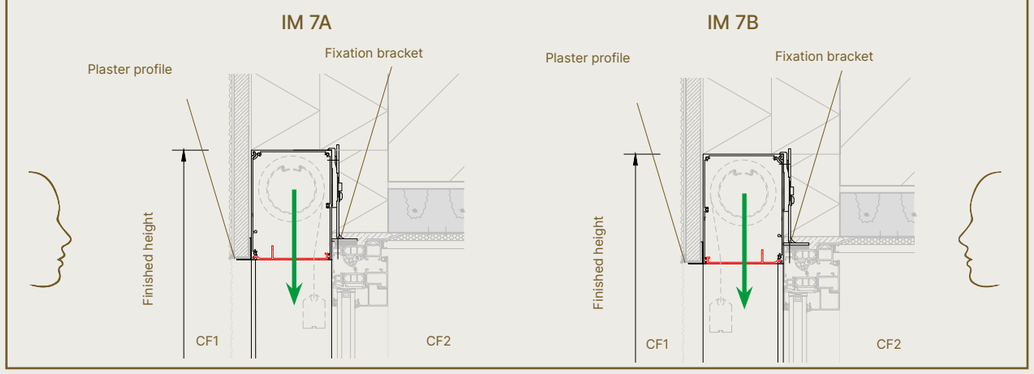
TIP: If a door handle, sliding door handle or fly screen could possibly prevent the free running of the fabric, choose installation method 7B. This ensures the fabric runs away from the window and free running is assured.



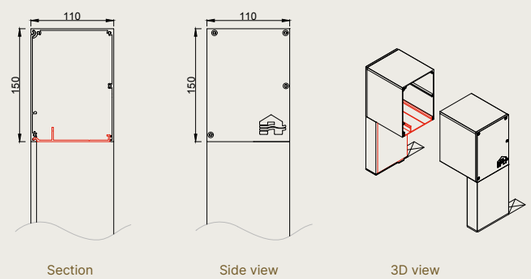
Fixscreen® Ready 100 Slim - Drawing recessed masonry



Fixscreen® Ready 100 Slim - Drawing recessed plaster

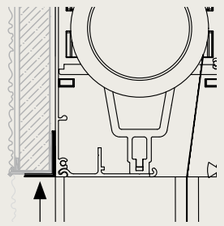


Head box



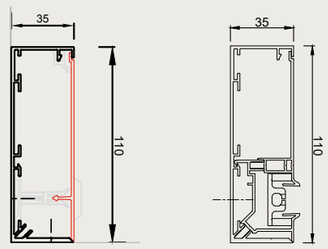
Section | Side view | 3D view

Plaster profile



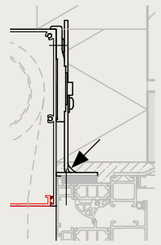
Plaster profile 20 mm x 30 mm of
30 mm x 30 mm

Side guiding channels



D = deep side guiding channel 3 parts
(standard)

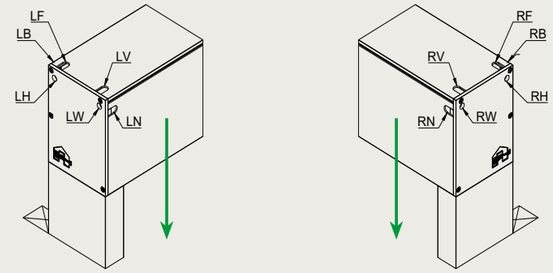
Fixation bracket



Bracket height min. 80 mm - max. 185 mm

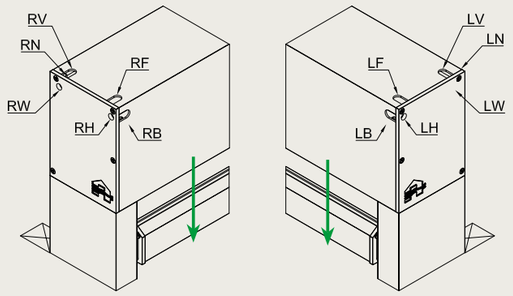
Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed

Cable feed - IM 7A



Feed	Feed location
B	rear
F	top
H	side
N	front
V	top
W	side

Cable feed - IM 7B

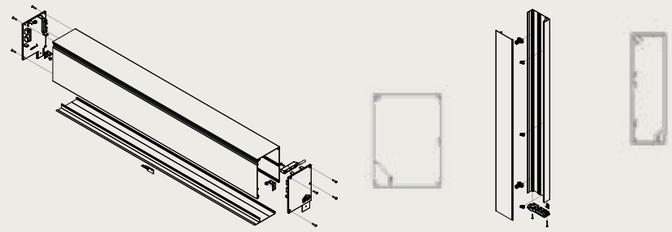


Feed	Feed location
B	rear
F	top
H	side
N	front
V	top
W	side

Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed
☒ Window position

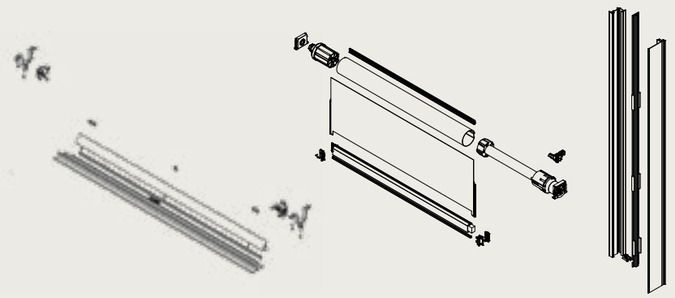
Empty head box

To give the product an aesthetic finish, Fixscreen Ready 100 Slim is supplied with a finishing profile for both the head box and the side guiding channel. The head box itself contains all components that are independent of the motor, as well as a Connect&Go electric cable connection (5 m) with a UV-resistant cable.



Fabric set

When ordering the fabric set, including motor, the inner rail, middle profile and side guiding channel removable profile are also supplied.



FIXSCREEN® MINIMAL

Renson is a pioneer in windproof sun screens against winds of up to 130 km/h, and its new product the Fixscreen Minimal raises the bar even higher. The ultimate aim is to conceal the screen head box and side guiding channels to the maximum extent during renovations or retrofitting. To ensure this, each and every part and detail of the Fixscreen sun screen was studied in depth: head box, side guiding channels, fabric set, dimensions, screen tension, etc. The result of these efforts being: minimal dimensions that enable a nearly invisible installation.

Maximum possibilities with minimum impact
Minimum head box size with limited depth to fit

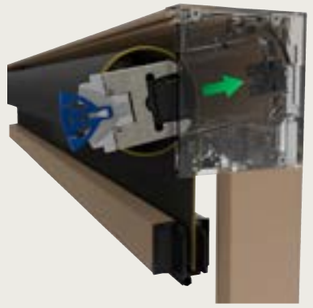
Super-thin 20 mm side guiding channel
Extensive range of side guiding channels for window type, view width limited to 20 mm

High-end design
Screwless and with a powder-coated aluminium inner rail

Aesthetic connection to a sill
Powder-coated base plate of 0° or 5° for seamless connection to the sill

Minimalist bottom bar
The small bottom bar with a height of 35 mm also has an invisible integrated welded seam

Wide range of RAL and fabric colours



FABRIC SET INSTALLATION

Thanks to the Fixscreen Minimal **Connect&Go-technology**, installing the fabric set is now even faster and safer. The integration of the **Click&Safe technology** ensures the fabric set can be clicked into the head box without screws so the installer has their hands free to complete the installation safely.

CONNECT & GO

CLICK & SAFE

SMOOTH-TECHNOLOGY

This aluminium inner rail also features the unique, successful **Smooth-technology** formula. This ensure the zip glides silently into the guiding channel that, in combination with the **Fixscreen-technology** guarantees high Wind resistance in the long term.

SMOOTH TECHNOLOGY

FIXSCREEN TECHNOLOGY

EXTREME HIGH WIND GUARANTEE

In addition to the wind warranty up to 130 km/h in closed position for standard applications, there is also a high wind warranty up to 100 km/h for freestanding applications. Perfect for enjoying the balcony or patio with shelter from the sun.

MINIMUM IMPACT ON THE ARCHITECTURE

Thanks to its smaller fabric box, the Fixscreen Minimal can be installed discretely, both surface-mounted (IM 1) and recessed (IM 7). The sleek lines and Square design of the head box keep the impact on the architecture to a minimum:

- ‘Small’ head box is 90 mm deep for dimensions up to 10 m²
- ‘Medium’ head box is 110 mm deep for dimensions up to 18 m²
- ‘Large’ head box is 130 mm deep for dimensions up to 27.8 m²

In addition to the head box, the side guiding channels and bottom bar also have a slimmer design. The side guiding channels have a view width of just 20 mm, which is unique in the market. The bottom bar has been redesigned with a height of just 35 mm.

Fixscreen Minimal IM1 Small

Fixscreen Minimal IM 7 Small

TIP: Fixscreen Minimal can also be perfectly and discreetly concealed inside, in combination with the quiet Sonesse motor.

EASE OF INSTALLATION

With this new product range, the ease of installation was given the highest priority.
The head box profile at the rear has, for example, a detail with various applications.

- For the surface-mounted installation, the head box can be mounted on a **hook profile**. For recessed installation, the head box can be secured via a **fixation bracket**. An easy and fast solution for both surface-mounted and recessed!
- For an easy recessed installation of 40 mm in front of the window, the Medium head box can be mounted to the **base box M.W+**. This option represents a total solution for combinations with minimalist windows and their typical reinforcement profiles.
- For freestanding applications, a **fill profile** is provided. This guarantees a beautiful finish for the head box.

For even more convenient installation, the connection between the head box and the side guiding channel is achieved with a separate **adjustable pin**. In addition, the guiding channels for installation to the window are **pre-drilled**. The **bottom bar** can now be clicked free of the fabric with ease. This limits the weight during installation or allows for rapid disassembly. A new detachable click-profile on the **fabric tube** minimises not only horizontal line formation in the fabric, but also ensures that you can easily and quickly click the fabric out of the fabric tube.

Hook profile

Fixation bracket

Base box M.W+

Fill profile

A GUIDING CHANNEL FOR EVERY APPLICATION

The Fixscreen Minimal range has a wide selection of side guiding channels, which allows combinations with any type of window. The **XS**-side guiding channel, extremely slim at just 20 mm x 55 mm. Ideally suited for both surface-mounted and recessed use on classic as well as fine window frames.

XS-side guiding channel

The deep recessed side guiding channel (**S/M/L**) is mainly used in freestanding applications. This type is matched to the depth of the corresponding head box and is installed **sideways** to the structure.

M side guiding channel

In addition to a guiding channel for sideways installation, the Fixscreen Minimal IM 7 application also has two types of side guiding channels for **fixation on the window frame**.

- The Window Front (.WF) type for Frontal fixation on the window frame.
- The Window Side (.WS) type for Sideways fixation on the window frame.

Both types are available for any type of head box (**S.WF/S.WS – M.WF/M.WS – L.WF/L.WS**),(S.WF/S.WS – M.WF/M.WS – L.WF/L.WS), as well as in an expanded '+' version in combination with the base box M.W+ (**M.WF+/M.WS+**). Thanks to the integrated rubber detail on the rear, these side guiding channels also guarantee a rain-proof combination with the window!

M.WF side guiding channel

M.WS side guiding channel

M.WF+ side guiding channel

M.WS+ side guiding channel

Depending on the type of window, front or sideways fixation on the window will be more suitable. The **.WF side guiding channels** will now be a perfect combination with minimalist window frames, as well as wider standard window frames.

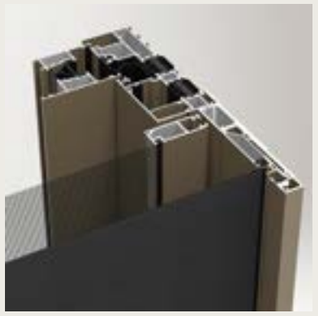
S.WF in combination with a fixed window

M.WF+ in combination with C.F and a minimalist window

The **.WS guiding channels** in turn are a perfect match for slim steel look windows, modern narrow (sliding) windows, as well as for combinations with (sliding) insect screens even with minimalist windows, and for all combinations with an Invisivent window louvre. As standard, the guiding channels are pre-drilled to reduce installation speed.

S.WS in combination with a steel look window

L.WS in combination with a sliding window



M.WS+ in combination with a sliding window and sliding screen

The range is completed with two coupling side guiding channels, the C.40 and the C.F.

- The **C.40** coupling side guiding channel is installed on the window frame and allows two screens to be Coupled together, with a maximum overall width of 10 m. Application in IM1 or IM 7A.
- The **C.F** coupling side guiding channel is a unique freestanding coupling side guiding channel that is used with the Medium head box in IM 7B. In this case, the coupling side guiding channel is installed completely separate from the window and up to 3 parts can be connected, with a maximum total width of 12 m. This total solution is ideal for minimalist sliding windows with reinforcement profiles or outward-sliding windows.

C.40 - Coupling side guiding channel for IM 7A

C.F - Freestanding coupling side guiding channel for Medium IM 7B

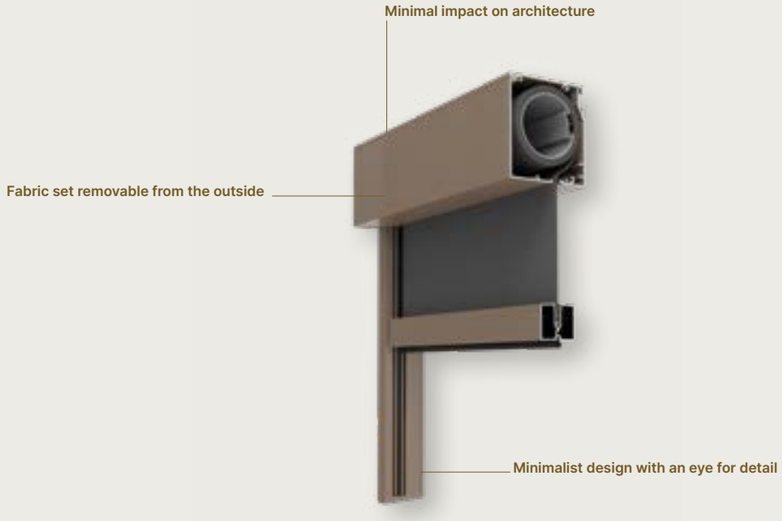
FIXSCREEN® MINIMAL SURFACE-MOUNTED

RENSON®

FIXSCREEN® MINIMAL

RETROFIT

Surface-mounted IM 1



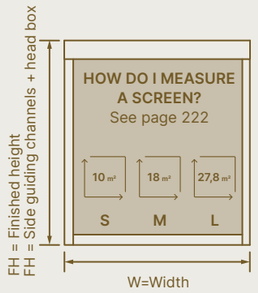
Dimensions		Small		Medium		Large			
Single screen									
Fibre glass fabric Sergé / Natté / Privacy	Min. width Somfy IO	900 mm		900 mm		900 mm			
	Min. width Detecto	670 mm		670 mm		670 mm			
	Max. width	4000 mm	3200 mm	5000 mm	4500 mm	6000 mm	5600 mm	4800 mm	3600 mm
	Max. height	2500 mm	3000 mm	3500 mm	4000 mm	3800 mm	4500 mm	5800 mm	6000 mm
	Max. surface area	10 m²	9.6 m²	17.5 m²	18 m²	22.8 m²	25.5 m²	27.8 m²	21.6 m²
Tuffscreen insect mesh	Min. width Somfy IO	900 mm		900 mm		900 mm			
	Min. width Detecto	670 mm		670 mm		670 mm			
	Max. width	4000 mm	3200 mm	5000 mm	4500 mm	5000 mm		4500 mm	
	Max. height	2500 mm	3000 mm	3500 mm	4000 mm	3500 mm		4000 mm	
	Max. surface area	10 m²	9.6 m²	17.5 m²	18 m²	17.5 m²		18 m²	
Blackout fibre glass fabric Satiné 21154	Min. width Somfy IO	900 mm		900 mm		900 mm			
	Min. width Detecto	670 mm		670 mm		670 mm			
	Max. width	3200 mm		4000 mm		4000 mm			
	Max. height	2500 mm		4000 mm		4000 mm			
	Max. surface area	8 m²		16 m²		16 m²			
Linked screens									
The dimensions of a single screen also apply to an interconnected screen. Maximum total width of 10,000 mm.									

NOTE
Fixation:
- Small head box does not need to be secured.
- Medium head box must be secured centrally starting from a width > 3600 mm
- Large head box must be secured to the sides, extra central securing required from a width > 3600 mm.

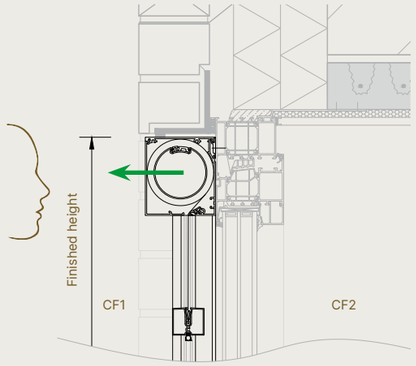
130 km/h · SMOOTH TECHNOLOGY · FIXSCREEN TECHNOLOGY · CONNECT & GO · CLICK & SAFE

Design	Small	Medium	Large
Head box dimensions (HxD)	100 mm x 90 mm	120 mm x 110 mm	140 mm x 130 mm
Head box extension	-		
Square	✓		
Retractable bottom bar	-		
Base plate side guiding channel	Lacquered aluminium 0° or 5°		
Wind resistance			
Wind classification EN13561:2004	3		
Wind tunnel test report	WTT17-003		
Guaranteed wind resistance	Up to 130 km/h in closed position depending on dimensions		
Control			
Detecto Renson motor Safety First	✓		
Somfy IO radio-controlled motor	✓		
Somfy Sonesse* IO radio-controlled motor	✓		
Certificates			
Declaration of Performance (DoP)	DOP-2015SC00006		

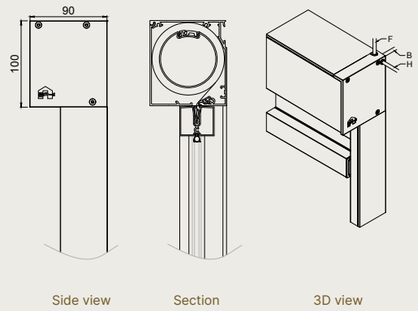
* Only for indoor application



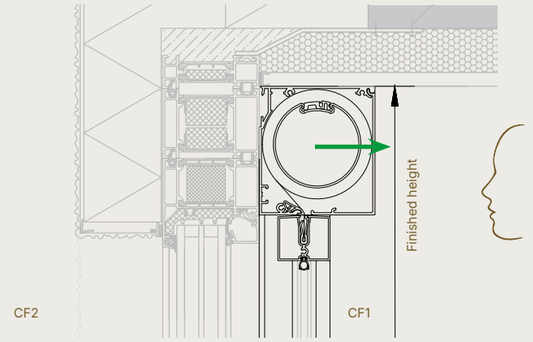
Small - Drawing surface-mounted masonry



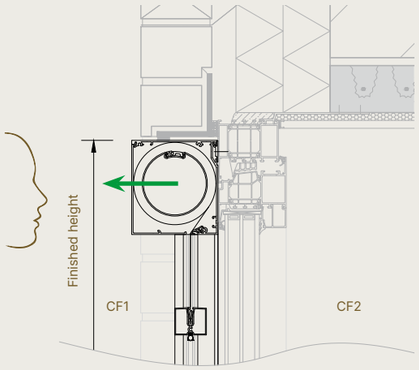
Small - Head box



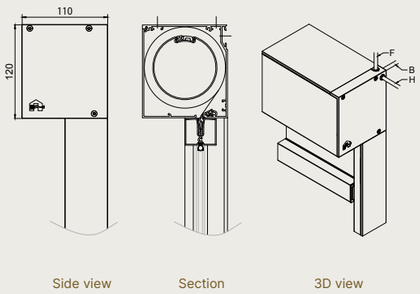
Small - Drawing surface-mounted indoor application



Medium - Drawing surface-mounted masonry



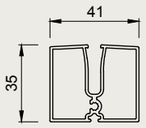
Medium - Head box



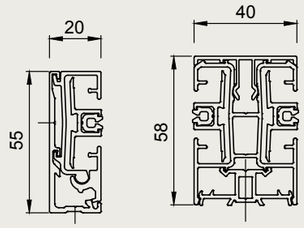
Hook profile

5 mm extra required for hook-in

Bottom bar



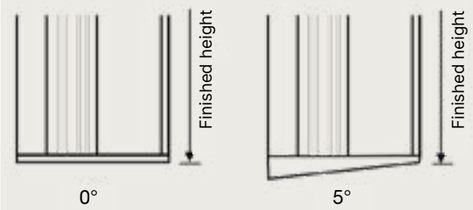
Side guiding channels



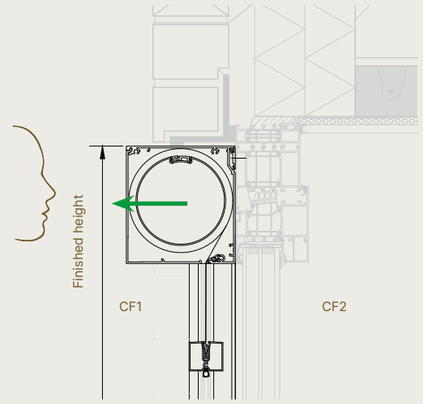
XS

C.40
Coupling side guiding channel

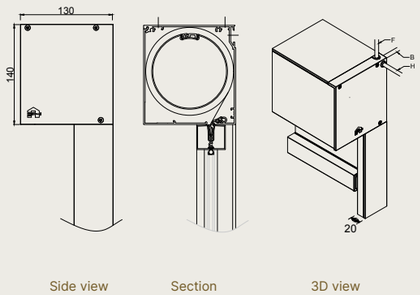
Base plate side guiding channel



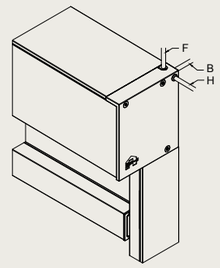
Large - Drawing surface-mounted masonry



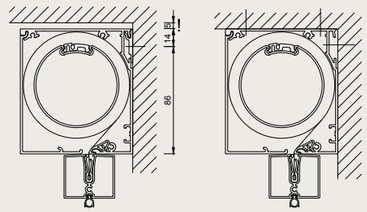
Large - Head box



Cable feed B/F/H



Feed	Location of feed
B	rear
F	top
H	side



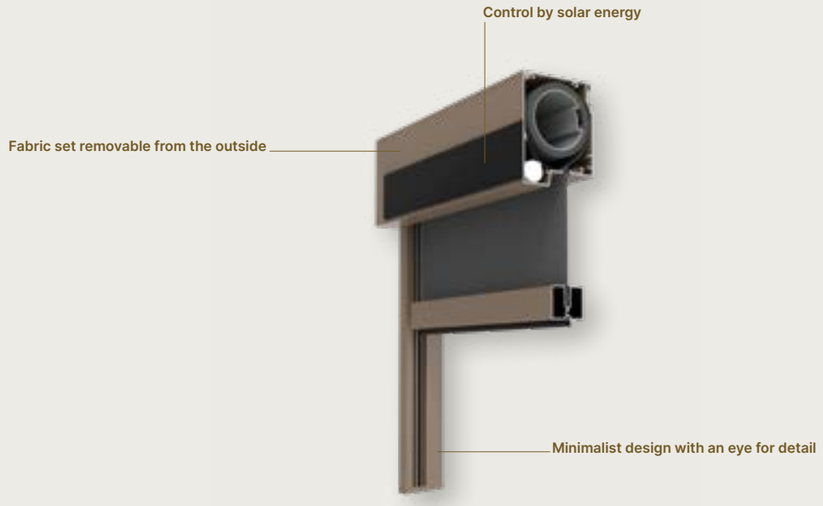
Hook profile

Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed
Make sure you use the correct viewing direction in indoor applications.

FIXSCREEN® MINIMAL SOLAR

Surface-mounted IM 1

RETROFIT

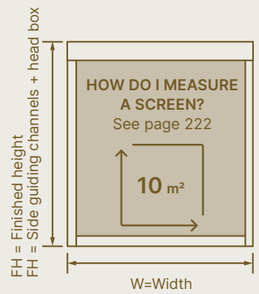


Dimensions		Small	
Single screen			
Fibre glass fabric **Sergé / Natté / Privacy** **Tuffscreen insect mesh**	Min. width Somfy	750 mm	
	Max. width	4000 mm	3200 mm
	Max. height	2500 mm	3000 mm
	Max. surface area	10 m²	9.6 m²
Blackout fibre glass fabric **Satiné 21154**	Min. width Somfy	900 mm	
	Max. width	3200 mm	
	Max. height	2500 mm	
	Max. surface area	8 m²	
Linked screens			
The dimensions of a single screen also apply to an interconnected screen. Maximum total width of 10,000 mm.			

NOTE
Fixation:
- Small head box does not need to be secured.

130 km/h | SMOOTH TECHNOLOGY | FIXSCREEN TECHNOLOGY | CONNECT & GO | CLICK & SAFE

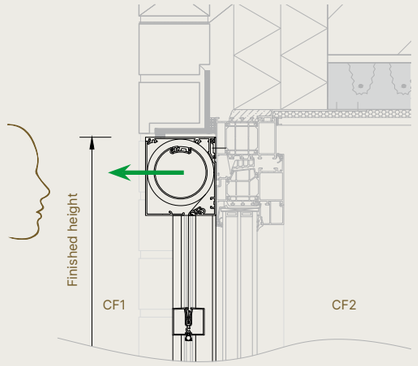
Design	Small
Head box dimensions (HxD)	115 mm x 90 mm
Head box extension	-
Square	✓
Retractable bottom bar	-
Base plate side guiding channel	Lacquered aluminium 0° or 5°
Fabric tube with click-profile	✓
Wind resistance	
Wind classification EN13561:2004	3
Wind tunnel test report	WTT22-001
Guaranteed wind resistance	Up to 130 km/h in closed position
Control	
Somfy radio-controlled motor	✓
Certificates	
Declaration of Performance (DoP)	DOP-2015SC00006



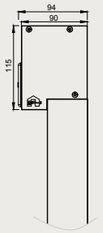
Not sure wheter to go for solar-powered Renson external sun protection screens?

The Somfy Solar app allows you to determine in advance, and in a specific environment, the capabilities of a Solar solution. Available for free in the App store and via Google Play.

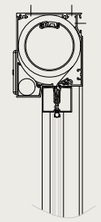
Small - Drawing surface-mounted masonry



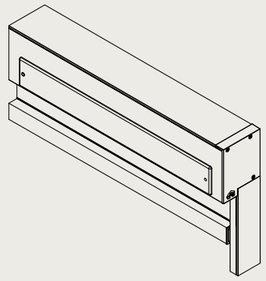
Small - Head box



Side view



Section



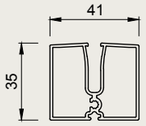
3D view

Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed
Make sure you use the correct viewing direction in indoor applications.

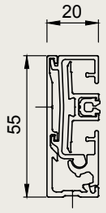
Hook profile

5 mm extra required for hook-in

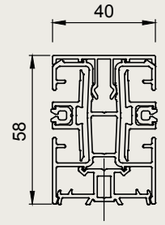
Bottom bar



Side guiding channels

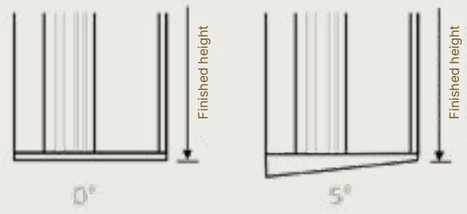


XS



C.40
Coupling side guiding channel

Base plate side guiding channel



FIXSCREEN® MINIMAL RECESSED

reddot winner 2022

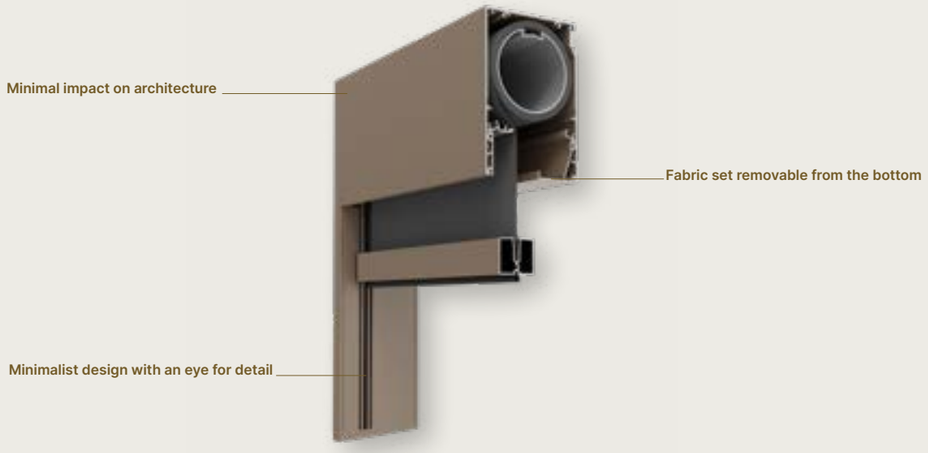
RENSON®

FIXSCREEN® MINIMAL

NEW BUILD AND EXTENSIVE RENOVATION

Recessed in front of the window IM 7

Installation method **7A**, fabric close to the window
Installation method **7B**, fabric away from the window
Combines perfectly with screen, door handle...



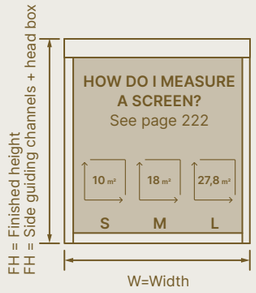
130 km/h | SMOOTH TECHNOLOGY | FIXSCREEN TECHNOLOGY | CONNECT & GO | CLICK & SAFE

Design	Small	Medium	Large
Head box dimensions (HxD)	140 mm x 90 mm	160 mm x 110 mm	180 mm x 130 mm
Head box extension	-		
Square	✓		
Retractable bottom bar	✓		
Base plate side guiding channel	Lacquered aluminium 0° or 5°		
Fabric tube with click-profile	✓		
Wind resistance			
Wind classification EN13561:2004	3		
Wind tunnel test report	WTT17-001		
Guaranteed wind resistance	Up to 130 km/h in closed position		
Control			
Detecto Renson motor Safety First	✓		
Somfy IO radio-controlled motor*	✓		
Somfy Sonesse* IO radio-controlled motor	✓		
Certificates			
Declaration of Performance (DoP)	DOP-2015SC00006		

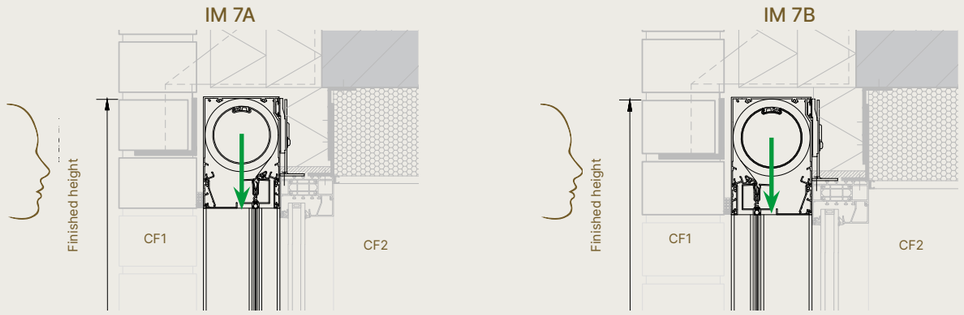
* Only for indoor application

Dimensions		Small		Medium		Large			
Single screen									
Fibre glass fabric Sergé / Natté / Privacy	Min. width Somfy IO	900 mm		900 mm		900 mm			
	Min. width Detecto	670 mm		670 mm		670 mm			
	Max. width	4000 mm	3200 mm	5000 mm	4500 mm	6000 mm	5600 mm	4800 mm	3600 mm
	Max. height	2500 mm	3000 mm	3500 mm	4000 mm	3800 mm	4500 mm	5800 mm	6000 mm
	Max. surface area	10 m²	9.6 m²	17.5 m²	18 m²	22.8 m²	25.5 m²	27.8 m²	21.6 m²
Tuffscreen insect mesh	Min. width Somfy IO	900 mm		900 mm		900 mm			
	Min. width Detecto	670 mm		670 mm		670 mm			
	Max. width	4000 mm	3200 mm	5000 mm	4500 mm	6000 mm	5600 mm	3600 mm	
	Max. height	2500 mm	3000 mm	3500 mm	4000 mm	3800 mm	4500 mm	5800 mm	
	Max. surface area	10 m²	9.6 m²	17.5 m²	18 m²	22 m²	25.5 m²	20.9 m²	
Blackout fibre glass fabric Satiné 21154	Min. width Somfy IO	900 mm		900 mm		900 mm			
	Min. width Detecto	670 mm		670 mm		670 mm			
	Max. width	3200 mm		4000 mm		4000 mm			
	Max. height	2500 mm		4000 mm		4000 mm			
	Max. surface area	8 m²		16 m²		16 m²			
Linked screens IM 7A									
The dimensions of a single screen also apply to an interconnected screen. Maximum total width of 10,000 mm.									

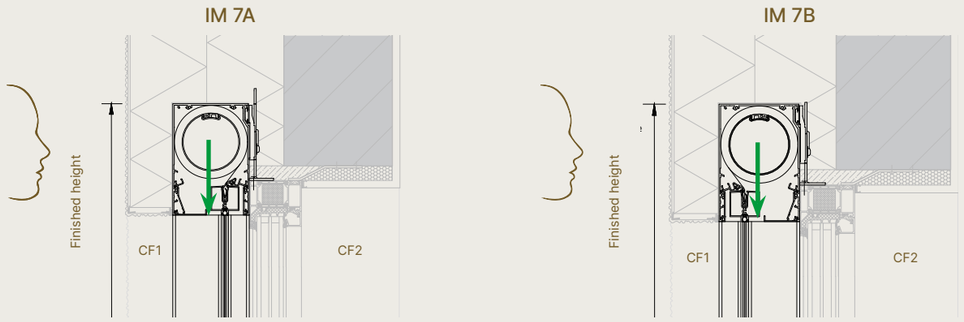
NOTE
Fixation:
- Small head box does not need to be secured.
- Medium head box must be secured centrally starting from a width > 3600 mm
- Large head box must be secured starting from a width > 3600 mm. In combination with the XS guiding channel, additional securing is required at the sides, regardless of the system width.



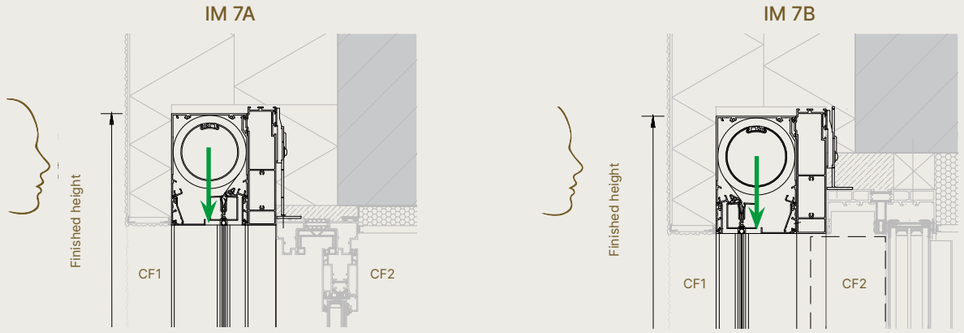
Medium - Drawing recessed masonry



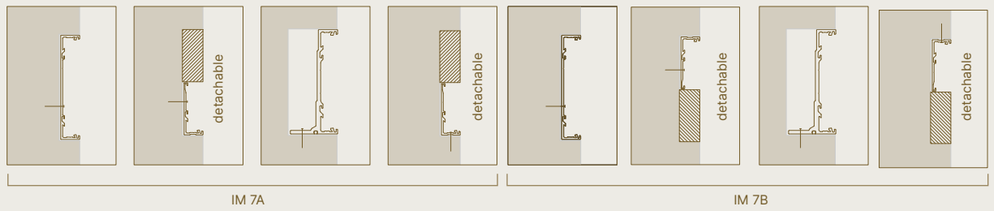
Medium - Drawing recessed plaster



Medium - Drawing recessed plaster - Base box M.W+

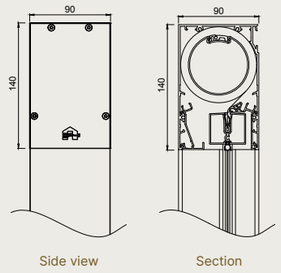


Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed

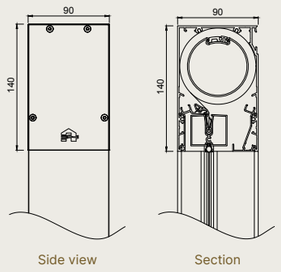


Note: When choosing the narrow side guiding channel XS, the customer must foresee something detachable under the head box in order to be able to disassemble the fabric set underneath (H = min. 680 mm).

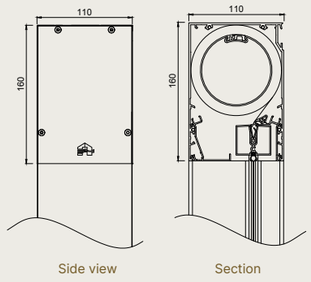
Small - IM 7A - Head box



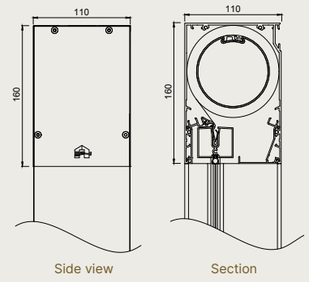
Small - IM 7B - Head box



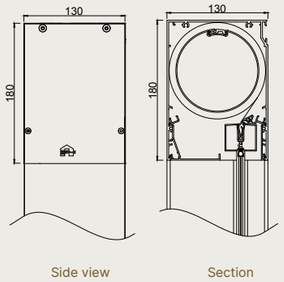
Medium - IM 7A - Head box



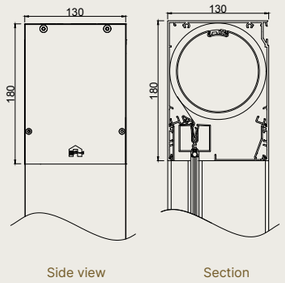
Medium - IM 7B - Head box



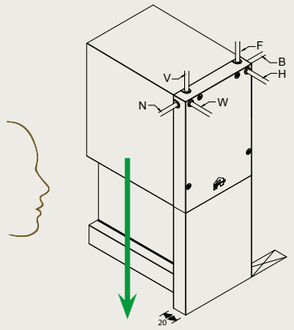
Large - IM 7A - Head box



Large - IM 7B - Head box

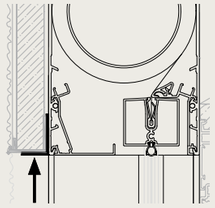


Cable feed



Feed	Feed location
B	rear
F	top
H	side
N	front
V	top
W	side

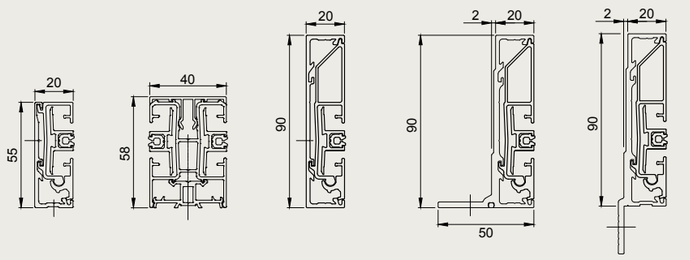
Plaster profile



Plaster profile 20 mm x 30 mm
or 30 mm x 30 mm

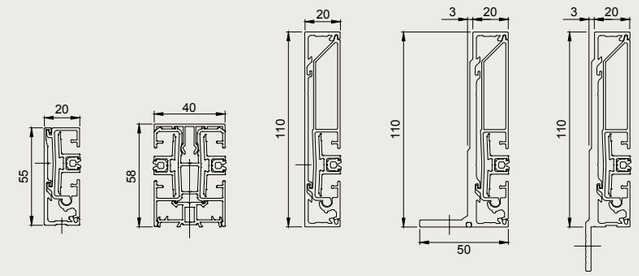
Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed
☒ Window position

Small - Side guiding channels



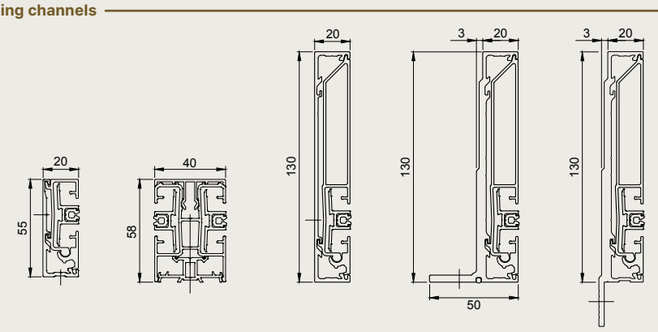
XS | **C.40*** | **S** Sideways fixation | **S.WF** Frontal fixation on the window | **S.WS** Sideways fixation on the window

Medium - Side guiding channels



XS | **C.40*** | **M** Sideways fixation | **M.WF** Frontal fixation on the window | **M.WS** Sideways fixation on the window

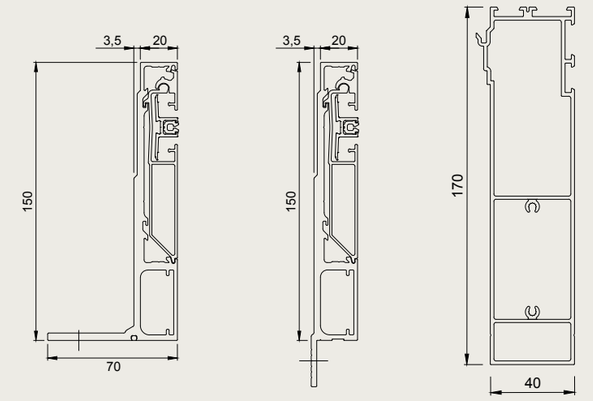
Large - Side guiding channels



XS | **C.40*** | **L** Sideways fixation | **L.WF** Frontal fixation on the window | **L.WS** Sideways fixation on the window

* Only possible with IM 7A

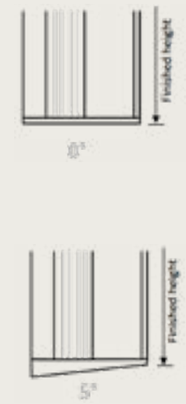
Medium - Extra 40 mm



M.WF+ Frontal fixation on the window | **M.WS+** Sideways fixation on the window | Base box **M.W+**

Facilitates installation if the product is to be installed 40 mm in front of the window

Base plate side guiding channel



Side guiding channel M.WF+ / M.WS+ only 0° possible

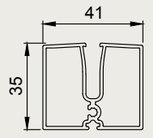
Fixation bracket

Bracket height min. 80 mm - max. 185 mm

Hook profile

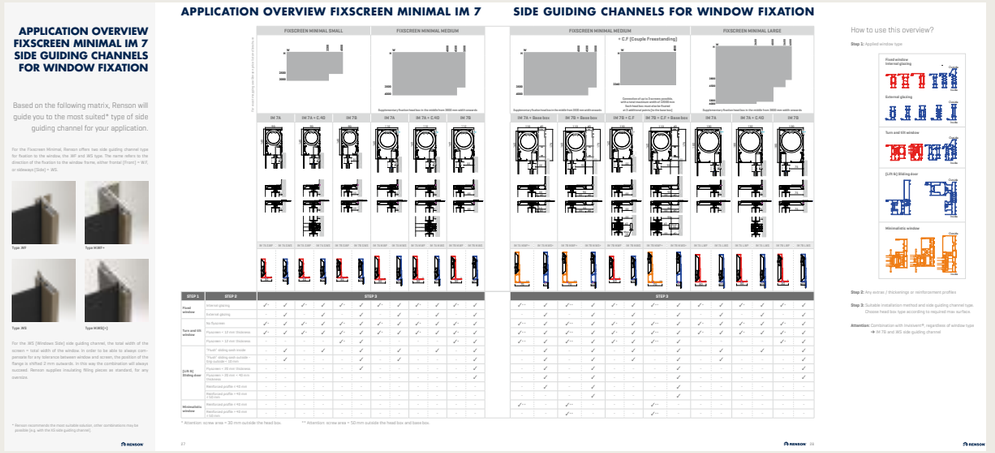
3 pieces per screen.
5 mm extra needed for hooking.

Bottom bar



WHICH SIDE GUIDING CHANNEL FOR WHICH TYPE OF WINDOW?

Consult the **Fixscreen Minimal application matrix for window installation**. Based on this matrix, Renson will guide you to the most suitable type of side guiding channel for your application.

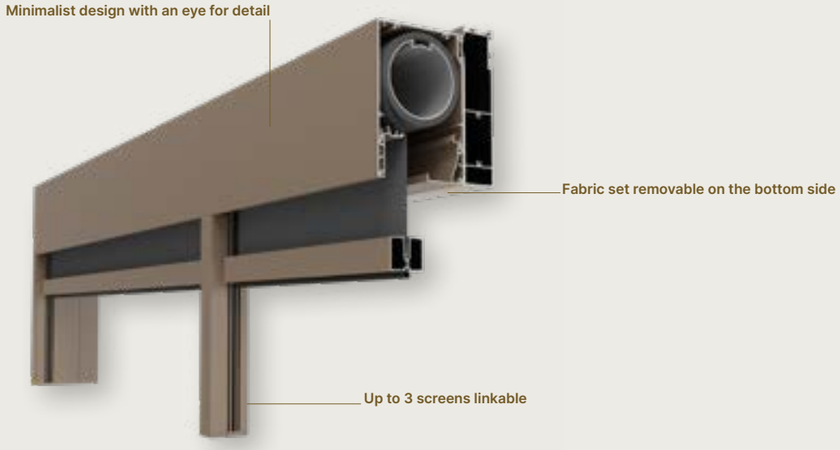


Fixscreen Minimal application matrix for window installation

FIXSCREEN® MINIMAL

Recessed in front of the window IM 7B with freestanding coupling side guiding channel (C.F.)

NEW BUILD AND EXTENSIVE RENOVATION



80 km/h | SMOOTH TECHNOLOGY | FIXSCREEN TECHNOLOGY | CONNECT & GO | CLICK & SAFE

Design	Medium
Head box dimensions (HxD)	160 mm x 110 mm
Head box extension	-
Square	✓
Retractable bottom bar	✓
Base plate side guiding channel	Lacquered aluminium 0° or 5°
Fabric tube with click-profile	✓
Wind resistance	
Wind classification EN13561:2004	3
Wind tunnel test report	-
Guaranteed wind resistance	Up to 80 km/h in closed position
Control	
Detecto Renson motor Safety First	✓
Somfy IO radio-controlled motor	✓
Certificates	
Declaration of Performance (DoP)	DOP-2015SC00006

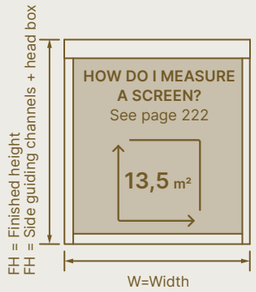
Dimensions		Medium
Single screen		
Fibre glass fabric Sergé / Natté / Privacy Tuffscreen insect mesh	Min. width Somfy IO	900 mm
	Min. width Detecto	670 mm
	Min. height	1500 mm
	Max. width	4000 mm
	Max. height	3360 mm
	Max. surface area	13.5 m²

NOTE

- Only possible for IM 7B. Completely freestanding (F) application of the IM 7B C.F. is not permitted.
- Head box must be installed concealed to prevent thermal expansion of the head boxes.
- Connection of up to 3 screens is possible when using the freestanding coupling guide (C.F), with a total maximum width of 12000 mm. Dimensions of a single screen apply for the connected screens.

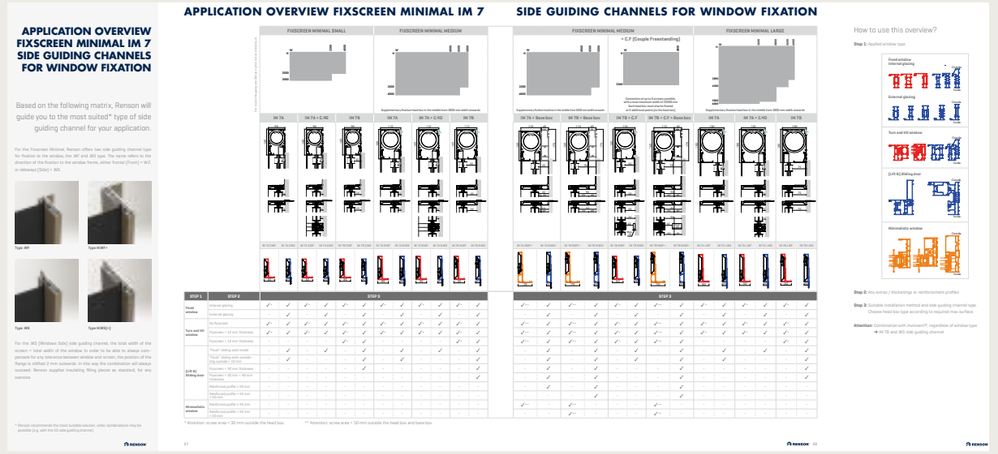
The head boxes must be secured such that they remain suspended autonomously. Maximum total force to be supported by the top/rear construction is 1500 N per freestanding coupling side guiding channel, C.F.

- Hook the box onto the hook profile and fixate on 3 additional points
- Hook the box onto the base box M.W+ and fixate on 3 additional points to the base box M.W+



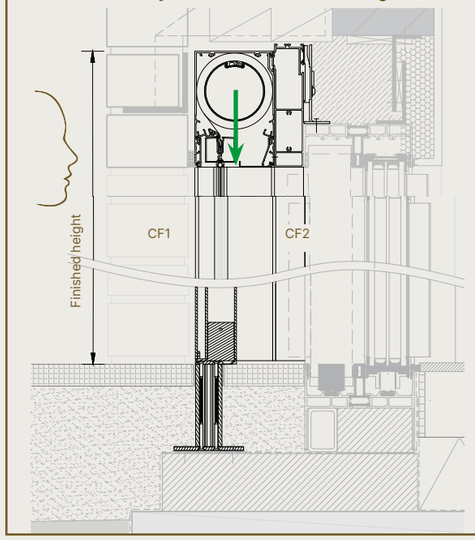
WHICH SIDE GUIDING CHANNEL FOR WHICH TYPE OF WINDOW?

Consult the **Fixscreen Minimal application matrix for window installation**. Based on this matrix, Renson will guide you to the most suitable type of side guiding channel for your application.

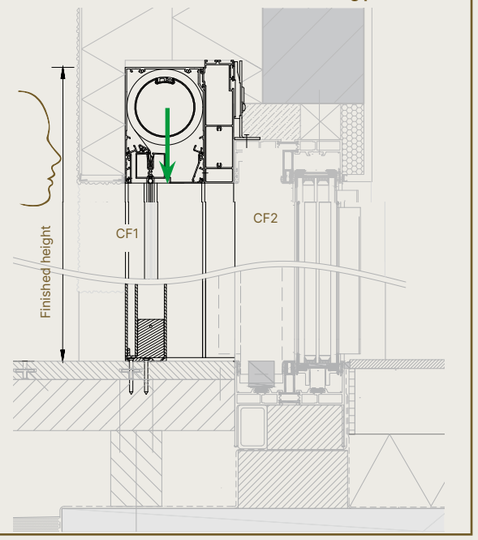


Fixscreen Minimal application matrix for window installation

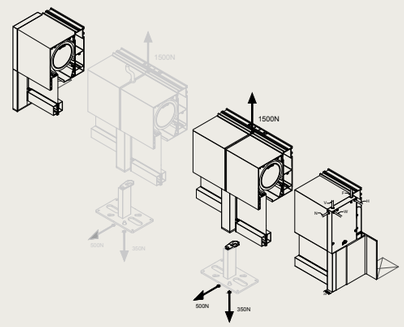
Medium - Masonry - IM 7B with C.F on mounting base



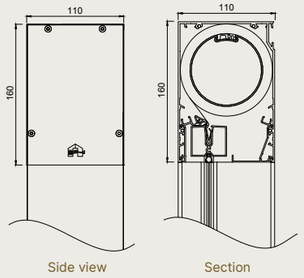
Medium - Plaster - IM 7B with C.F on mounting plate



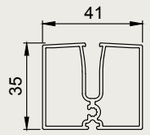
3D view



Medium - IM 7B - Head box



Bottom bar



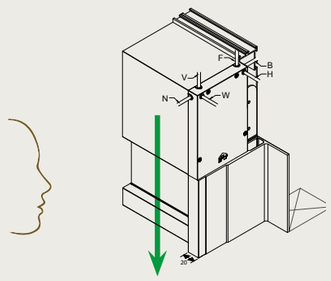
Hook profile

3 pieces per screen.
5 mm extra needed for hooking.

Fixation bracket

Bracket height min. 80 mm - max. 185 mm

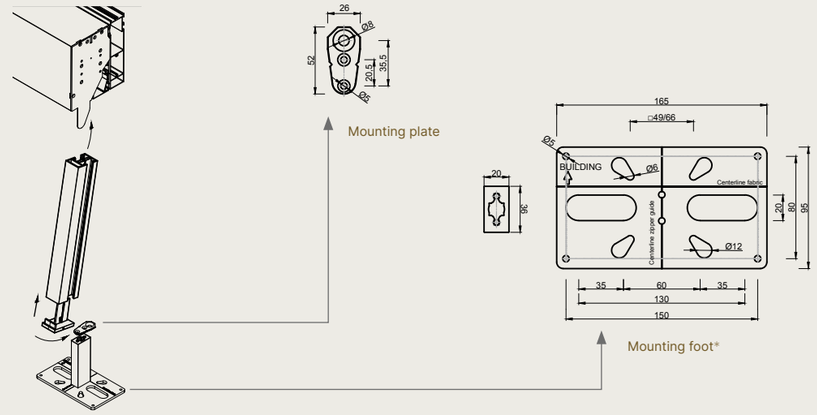
Cable feed



Feed	Feed location
B	rear
F	top
H	side
N	front
V	top
W	side

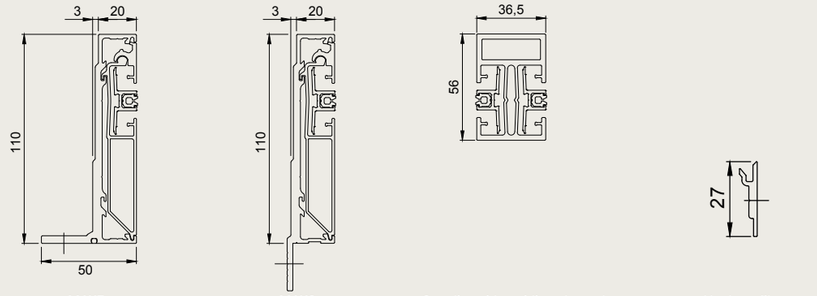
Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed
⊠ Window position

Installation methods

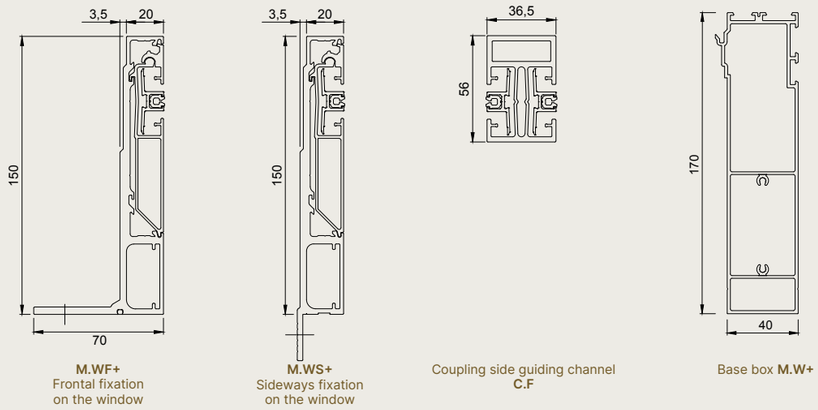


* Supplied at 80 mm or 130 mm and can be cut to size on site

Installation without filling



Installation with 40 mm filler*



* Guarantees easy installation in combination with side guiding channel M.W+ if the screen must be installed 40 mm in front of the window.

FIXSCREEN® MINIMAL CURTAIN WALL

RENSON®

CURTAIN WALLS AND FABRIC SUN PROTECTION

Curtain walls are becoming more and more common in contemporary architecture. The curtain wall has found its way into not only commercial buildings, but residential buildings as well. When using such large glass panels, it is important not to overlook interior comfort. Sufficient daylight inside is a good thing, but outdoor sun protection helps to keep the indoor temperature under control.

Product range

In order to nicely integrate this fabric sun protection, Renson® has made a unique development within its product range. Now that you can attach **coupling side guiding channels centrally**, there is nothing to prevent easy installation of the sun protection to the curtain wall transoms itself. The **thermal expansion** of the box was also considered in the design, so that an infinite number of screens can coupled.

Curtain wall solution

The curtain wall solution from Renson is based on the Fixscreen Minimal range, in the form of the **Fixscreen Minimal Curtain Wall 50**.

With its minimalist look, the Fixscreen Minimal Curtain Wall 50 is also a perfect match for curtain wall designs. A central mounting to the curtain wall is additionally ensured by the design of the side guiding channel of just 50 mm. Furthermore, the fabric box is equipped for thermal expansion, allowing it to be infinitely interconnected. A must in combination with curtain walls!

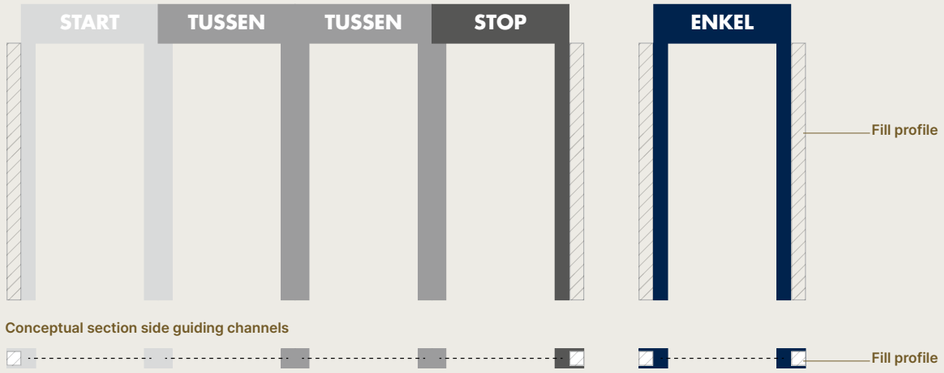
Recessed application

Surface-mounted application

How to combine screens with a curtain wall?

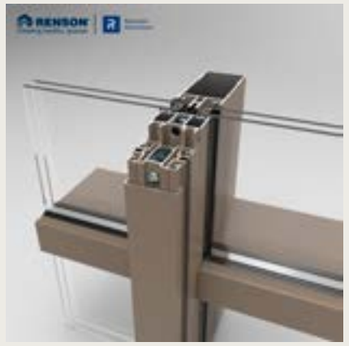
For curtain walls, Renson offers the choice between a single screen, or a series of screens over the entire glass facade. If a series of screens is needed, the installation starts with the start screen. This consists of two coupling side guiding channels, the outer one of which contains a fill profile that will replace the zip channel to ensure an aesthetically pleasing finish. This start screen is followed by the required amount of intermediate screens. The last screen is a stop screen, which also contains a fill profile at the end.

Conceptual view



Cooperative development

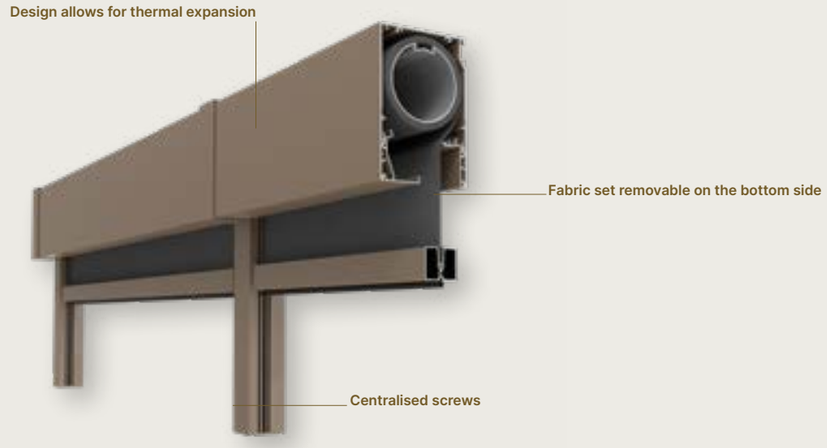
What makes this product even more unique is that it is also available as a co-developed, validated system. Renson and Reynaers Aluminium have joined forces for the ultimate combination of curtain walls and fabric sun protection. The combination of both forms of innovation results in an aesthetic total curtain wall solution that is easy to install without losing an eye for detail. Using the unique side guiding channel C.50 Reynaers Aluminium, the Fixscreen Minimal Curtain Wall 50 seamlessly connects to Reynaers Aluminium's curtain wall system. The result is a unique, tested and validated all-in-one solution.



FIXSCREEN® MINIMAL CURTAIN WALL 50

Surface-mounted IM 7A

RETROFIT OR NEW BUILD

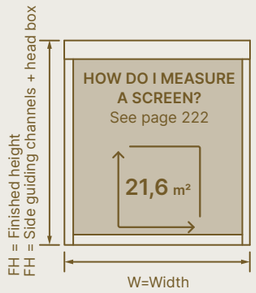


Dimensions		Medium	Large
Single screen			
Fibre glass fabric Sergé / Natté / Privacy	Min. width Somfy IO	900 mm	900 mm
	Min. width Detecto	670 mm	670 mm
	Max. width	3600 mm	3600 mm
	Max. height	4000 mm	6000 mm
	Max. surface area	14.4 m^2	21.6 m^2
Blackout fibre glass fabric Satiné 21154	Min. width Somfy IO	900 mm	900 mm
	Min. width Detecto	670 mm	670 mm
	Max. width	3600 mm	3600 mm
	Max. height	4000 mm	4000 mm
	Max. surface area	14.4 m^2	14.4 m^2

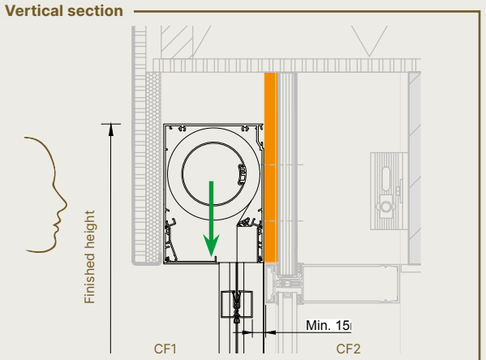
NOTE
- Thermal expansion and contraction is taken into account to allow infinite coupling of the screens, which limits the maximum width to 3600 mm.
- The finishing profile is provided as standard on the outside of both start and last screen. It is optional for other coupling side guiding channels.
- Installation is always from start screen to last screen and the start screen is always on the left.
- Installation of the last screen requires an additional installation width of 30 mm.
- Combination with curtain wall system to be validated in consultation with system supplier. The product combination with the ConceptWall 50 must be configured in accordance with Reynaers Aluminium specifications and through a Reynaers Aluminium partner.

130 km/h · SMOOTH TECHNOLOGY · FIXSCREEN TECHNOLOGY · CONNECT & GO · CLICK & SAFE

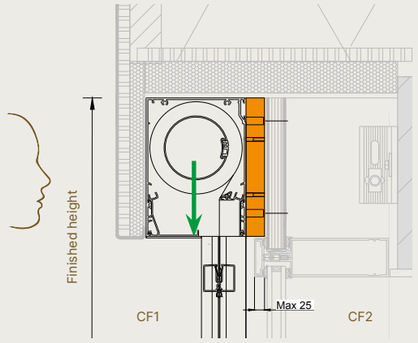
Design	Medium	Large
Head box dimensions (HxD)	160 mm x 110 mm	180 mm x 130 mm
Square	✓	
Retractable bottom bar	✓	
Base plate side guiding channel	At an angle of 0°	
Fabric tube with click-profile	✓	
Wind resistance		
Wind classification EN13561:2004	3	
Wind tunnel test report	WTT17-001 (Standard)	
Guaranteed wind resistance	Up to 130 km/h in closed position	
Control		
Detecto Renson motor Safety First	✓	
Somfy IO radio-controlled motor	✓	
Certificates		
Declaration of Performance (DoP)	DOP-2015SC00006	



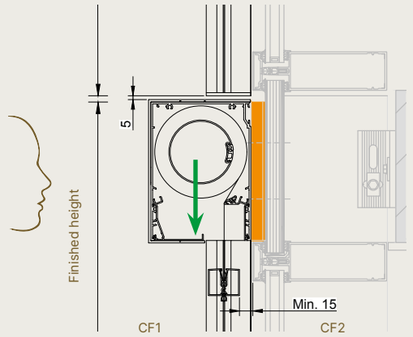
Vertical section



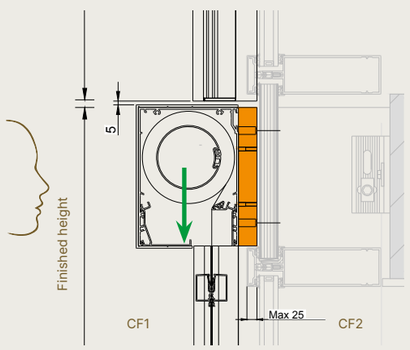
Vertical section - Reynaers Aluminium



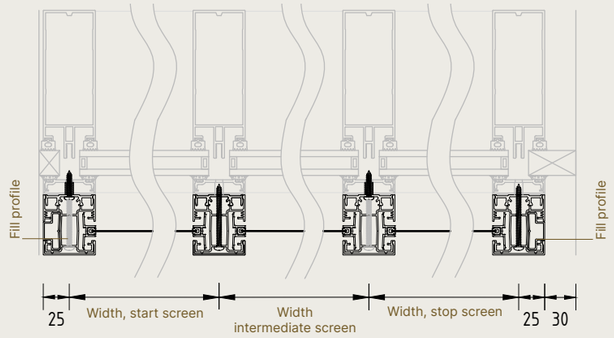
Vertical section continuous curtain wall



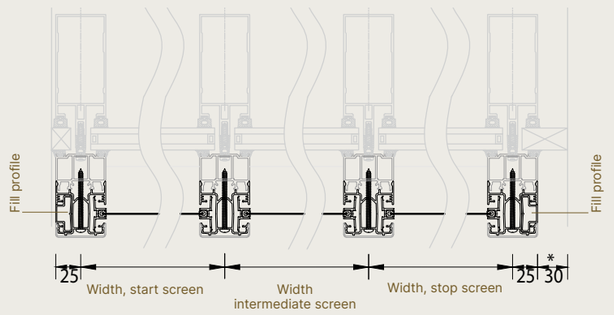
Vertical section continuous curtain wall - Reynaers Aluminium



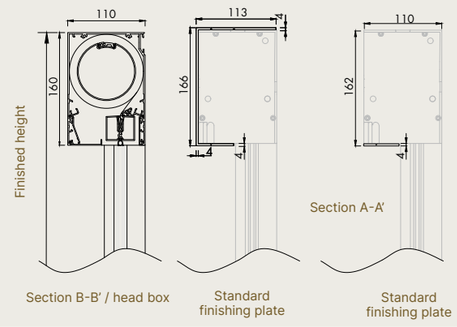
Horizontal section - Dimensions



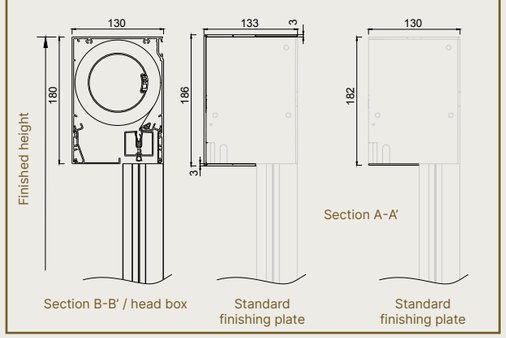
Horizontal section - Dimensions - Reynaers Aluminium



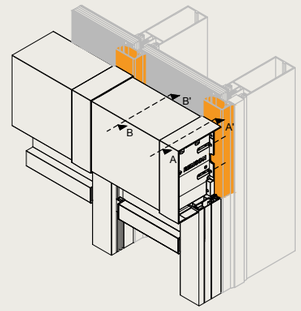
Head box Medium



Head box Large

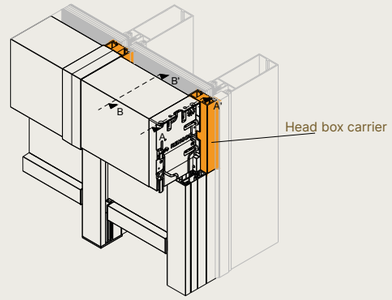


3D view



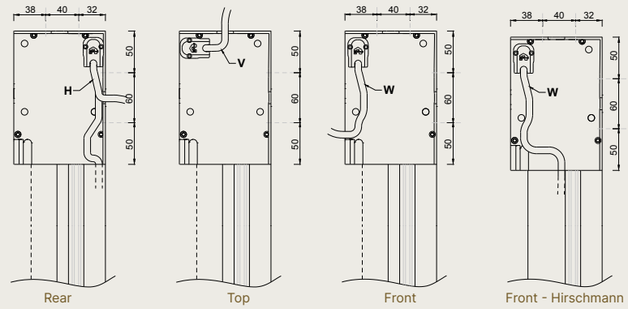
Attention: In order to enable the replacement of underlying glass without dismantling the box, it is advisable to interrupt both the cover profiles and the side guide clamp

3D view - Reynaers Aluminium



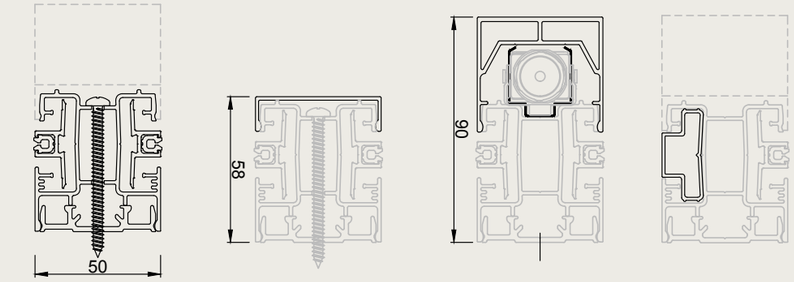
Attention: Use of the head box support CW50 M/L Reynaers Aluminium is necessary for easy assembly of the head box and to allow replacement of the underlying glass without disassembly of the head box

Cable feed



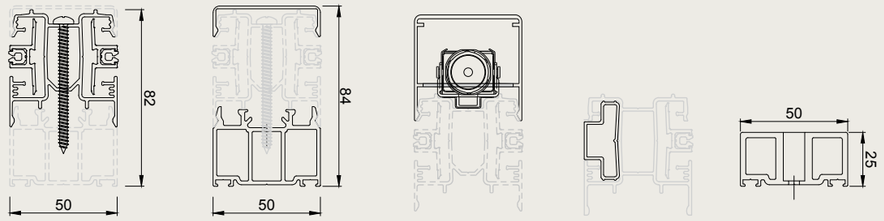
Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed

Side guiding channels



Coupling side guiding channel C.50 | Removable profile as standard | Hirschmann plug removable profile | Fill profile

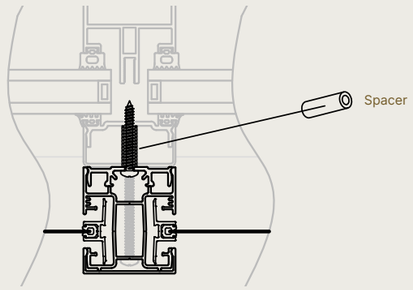
Side guiding channels - Reynaers Aluminium



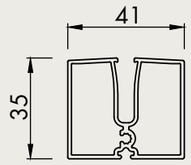
Coupling side guiding channel C.50 Reynaers Aluminium | Reynaers Aluminium* Face cap 034.0536.XX Base couple guide 034.0565.XX | Reynaers Aluminium* Cover profile 034.0545.XX for Hirschmann plug | Fill profile | Head box support CW50 M/L Reynaers Aluminium (included as standard)

*To be ordered via Reynaers Aluminium

Spacer - Standard



Bottom bar



Note: Spacer can be provided depending on the type of cover profile for the curtain wall system. N/A for the Reynaers Aluminium version.

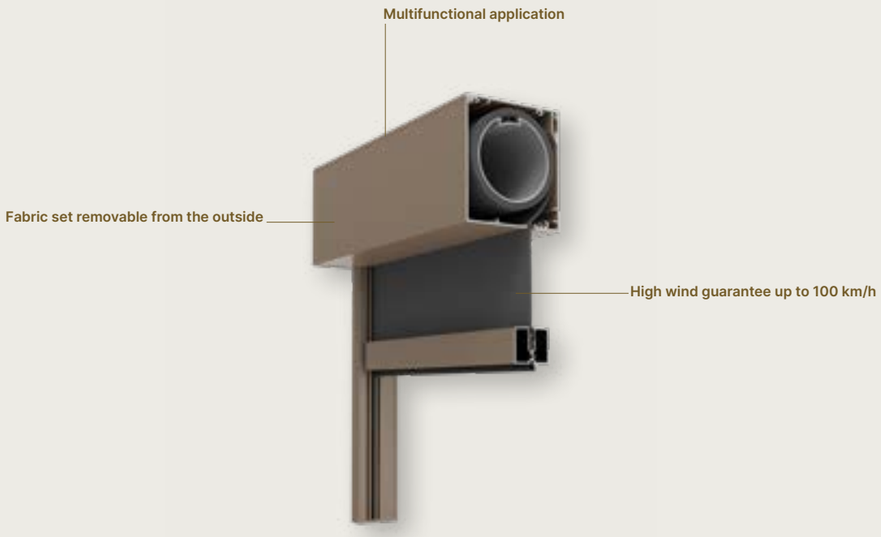
FIXSCREEN® MINIMAL FREESTANDING

RENSON®

FIXSCREEN® MINIMAL

Freestanding IM 1F

FREESTANDING
RETROFIT

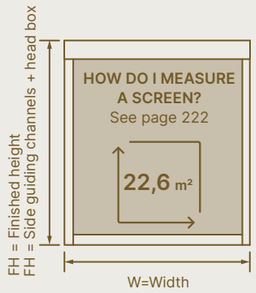


100 km/h | SMOOTH TECHNOLOGY | FIXSCREEN TECHNOLOGY | CONNECT & GO | CLICK & SAFE

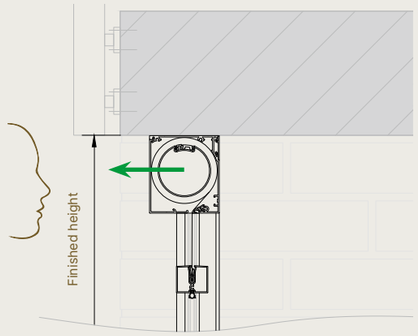
Design	Small	Medium	Large
Head box dimensions (HxD)	100 mm x 90 mm	120 mm x 110 mm	140 mm x 130 mm
Head box extension	-		
Square	✓		
Retractable bottom bar	-		
Base plate side guiding channel	Lacquered aluminium 0° or 5°		
Fabric tube with click-profile	✓		
Wind resistance			
Wind classification EN13561:2004	3		
Wind tunnel test report	WTT117-003		
Guaranteed wind resistance	Up to 100 km/h in closed position		
Control			
Detecto Renson motor Safety First	✓		
Somfy IO radio-controlled motor	✓		
Certificates			
Declaration of Performance (DoP)	DOP-2015SC00006		

Dimensions		Small		Medium		Large	
Single screen							
Fibre glass fabric Sergé / Natté / Privacy	Min. width	900 mm		900 mm		900 mm	
	Max. width	4000 mm	3200 mm	5000 mm	4500 mm	6000 mm	4500 mm
	Max. height	2500 mm	3000 mm	3500 mm	4000 mm	3800 mm	4000 mm
	Max. surface area	10 m²	9.6 m²	17.5 m²	18 m²	22.8 m²	18 m²
Tuffscreen insect mesh	Min. width	900 mm		900 mm		900 mm	
	Max. width	4000 mm	3200 mm	5000 mm	4500 mm	5000 mm	4500 mm
	Max. height	2500 mm	3000 mm	3500 mm	4000 mm	3500 mm	4000 mm
	Max. surface area	10 m²	9.6 m²	17.5 m²	18 m²	17.5 m²	18 m²

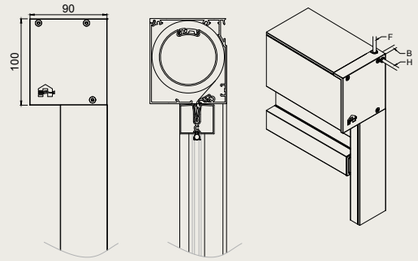
NOTE
Fixation:
- Small head box does not need to be secured.
- Medium head box must be secured centrally starting a width > 3600 mm
- Large head box must be secured starting from a width > 3600 mm. Mandatory securing at the sides when using XS side guiding channel



Small - Drawing surface-mounted balcony

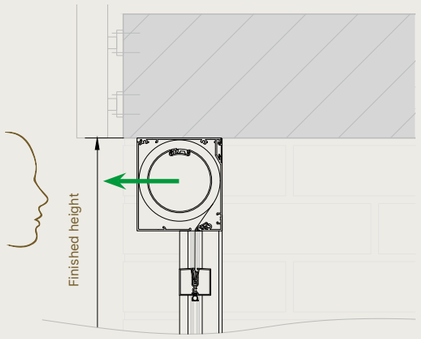


Small - Head box

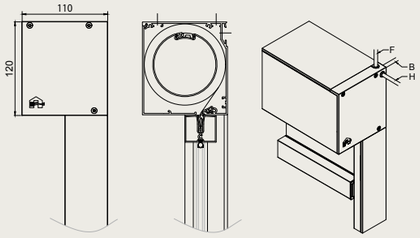


Side view Section 3D view

Medium - Drawing surface-mounted balcony

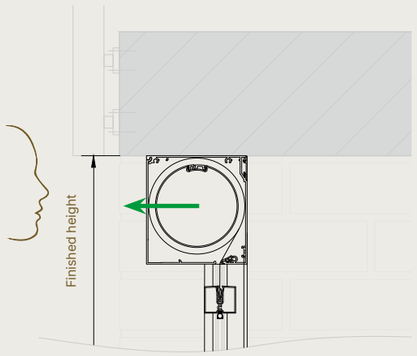


Medium - Head box

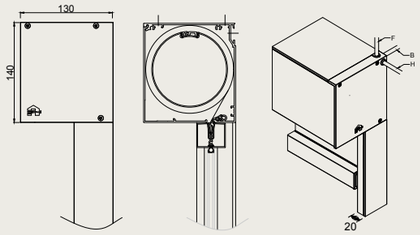


Side view Section 3D view

Large - Drawing surface-mounted balcony



Large - Head box



Side view Section 3D view

Viewing direction determines choice of left or right cable feed
Make sure you use the correct viewing direction in indoor applications.

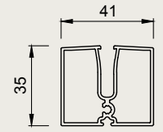
direction in which fabric set should be removed

Hook profile

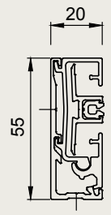
5 mm extra required for hook-in

Fill profile

Bottom bar

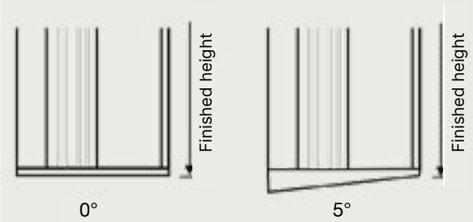


Side guiding channels

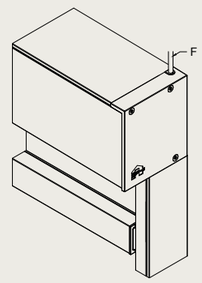


XS

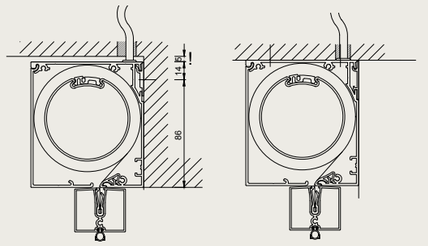
Base plate side guiding channel



Cable feed F

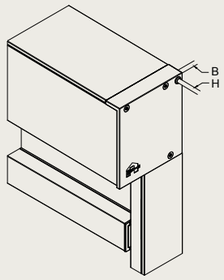


Feed	Location of feed
F	top

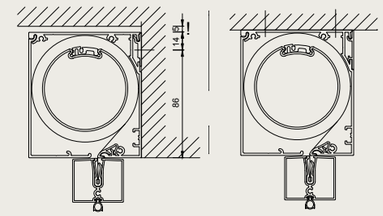


Hook profile Finishing profile

Cable feed B/H



Feed	Location of feed
B	rear
H	side

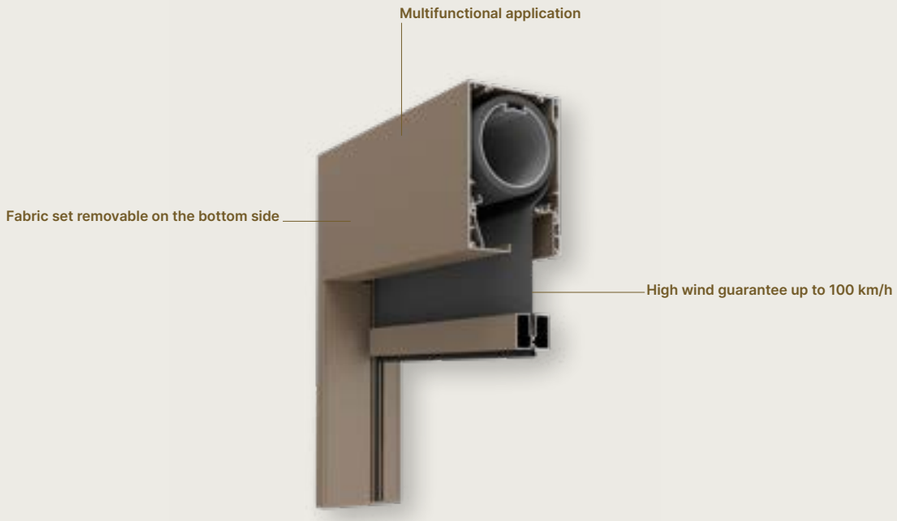


Hook profile Finishing profile

FIXSCREEN® MINIMAL

Freestanding IM 7 F

FREESTANDING
RECESSED

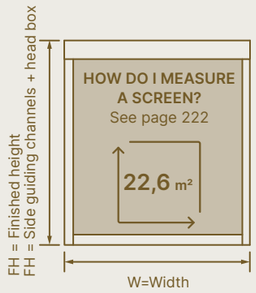


100 km/h | SMOOTH TECHNOLOGY | FIXSCREEN TECHNOLOGY | CONNECT & GO | CLICK & SAFE

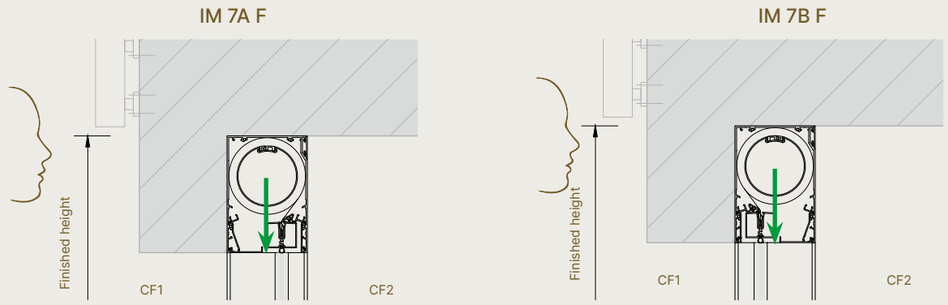
Design	Small	Medium	Large
Head box dimensions (HxD)	140 mm x 90 mm	160 mm x 110 mm	180 mm x 130 mm
Head box extension	-		
Square	✓		
Retractable bottom bar	✓		
Base plate side guiding channel	Lacquered aluminium 0° or 5°		
Fabric tube with click-profile	✓		
Wind resistance			
Wind classification EN13561:2004	3		
Wind tunnel test report	WTT117-003		
Guaranteed wind resistance	Up to 100 km/h in closed position depending on dimensions		
Control			
Detecto Renson motor Safety First	✓		
Somfy IO radio-controlled motor	✓		
Cerfiticates			
Declaration of Performance (DoP)	DOP-2015SC00006		

Dimensions		Small		Medium		Large	
Single screen							
Fibre glass fabric Sergé / Natté / Privacy	Min. width	900 mm		900 mm		900 mm	
	Max. width	4000 mm	3200 mm	5000 mm	4500 mm	6000 mm	4500 mm
	Max. height	2500 mm	3000 mm	3500 mm	4000 mm	3800 mm	4000 mm
	Max. surface area	10 m²	9.6 m²	17.5 m²	18 m²	22.8 m²	18 m²
Tuffscreen insect mesh	Min. width	900 mm		900 mm		900 mm	
	Max. width	4000 mm	3200 mm	5000 mm	4500 mm	5000 mm	4500 mm
	Max. height	2500 mm	3000 mm	3500 mm	4000 mm	3500 mm	4000 mm
	Max. surface area	10 m²	9.6 m²	17.5 m²	18 m²	17.5 m²	18 m²

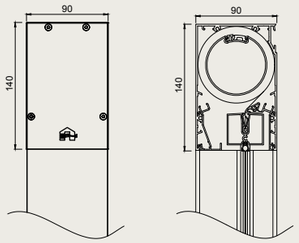
NOTE
Fixation:
- Small head box does not need to be secured.
- Medium head box must be secured centrally starting from a width > 3600 mm
- Large head box must be secured starting from a width > 3600 mm. Mandatory securing at the sides when using XS side guiding channel



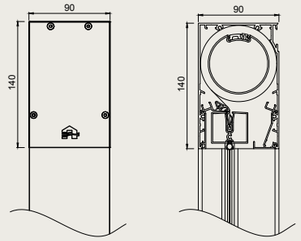
Medium - Drawing recessed balcony



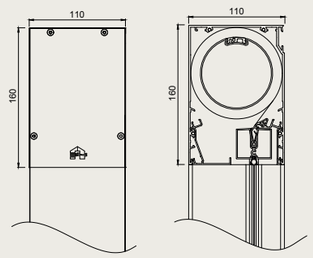
Small - IM 7A F - head box



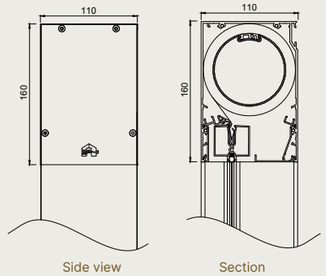
Small - IM 7B F - head box



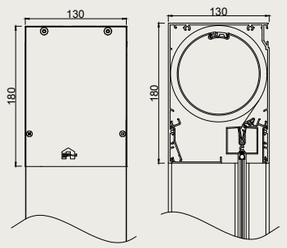
Medium - IM 7A F - head box



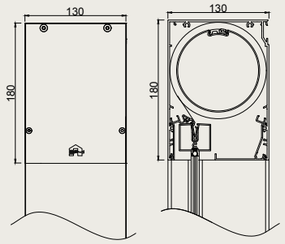
Medium - IM 7B F - head box



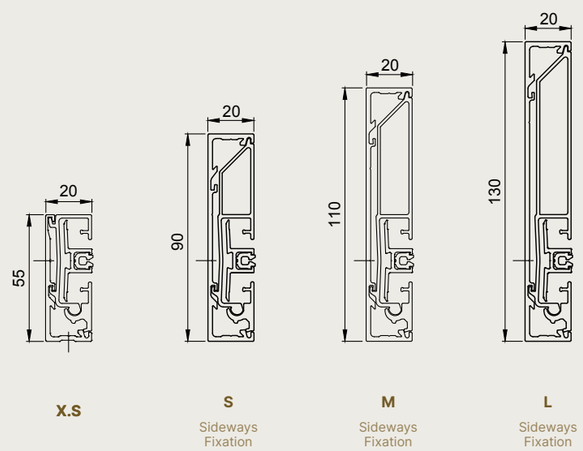
Large - IM 7A F - head box



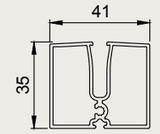
Large - IM 7B F - head box



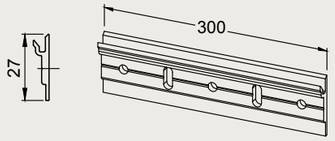
Side guiding channels



Bottom bar

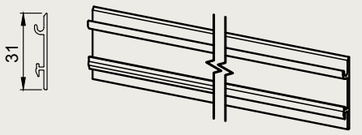


Hook profile

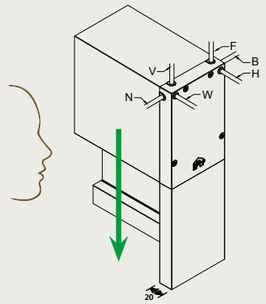


3 pieces per screen.
5 mm extra needed for hooking.

Fill profile



Cable feed



Feed	Location of feed
B	rear
F	top
H	side
N	front
V	top
W	side

Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed

PANOVISTA® (MAX)

RENSON®

PANOVISTA® (MAX)

The first sun protection solution for glass-on-glass corner windows

The Panovista (Max) is the first fabric sun protection for glass-on-glass corner windows, which is perfectly in line with modern architecture for large glass sections and minimalistic design.

1. Uninterrupted panoramic view

Panovista (Max) is an ideal solution for glass-on-glass windows. There are no aluminium profiles or cables visible in the corner, so the panoramic view is fully preserved.

2. Invisible integration

The Panovista (Max) has been designed so that both the head box and side guiding channels can be completely aesthetically concealed in the façade. The bottom bar is also fully retractable on the Panovista.

3. Suitable for large glass surfaces

Panovista (Max) has been developed to provide large glass surfaces with fabric sun protection, perfectly in line with current market trends. The Panovista can cover a total surface area of 22.4 m² and the Panovista Max even goes up to 30 m².

4. High wind guarantee

The patented **Fixscreen-technology** always guarantees tightly tensioned fabrics. The zip is optimally attached to the fabric and remains firmly in place in the side guiding channels. Even at high wind speeds up to up to 90 km/h (Panovista Max).

5. Connect&Go-technology

The different types of motors that ca be used are equipped with a **Connect&Go**. This patented electrical connection guarantees quick and safe installation of the fabric set. Not only the installation but also the disassembly is therefore particularly efficient.

6. Durable guiding of the fabric

Increase the comfort thanks to the **Smooth-technology**. This wear-resistant, patented layer guarantees a smooth, durable and silent operation of the zip in the side guiding channels.

7. Vast collection of fabrics and powder coating colours

Panovista (Max) can be perfectly aligned with the building's architecture through the wide range of fabrics and powder coating colours.

Choice of two different versions

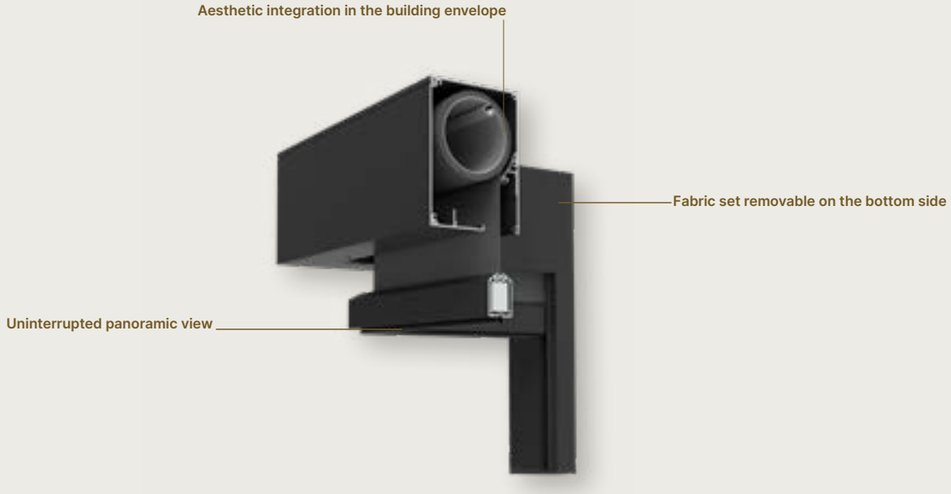
Depending on requirements and expectations, there is a choice of two different Panovista versions. Both products lend themselves perfectly to glass-on-glass corner windows. The difference is in the corner connection. A Panovista has an opening between the two fabric sections. Thanks to the larger head box, Panovista Max integrates an aesthetic zip at the corner. The corner is therefore fully closed, ensuring improved wind resistance up to 90 km/h. The larger head box also allows for larger dimensions. Since the corner is fully closed, the Panovista Max is insect-proof.

Panovista®

Panovista® Max

PANOVISTA®

NEW BUILD AND EXTENSIVE RENOVATION

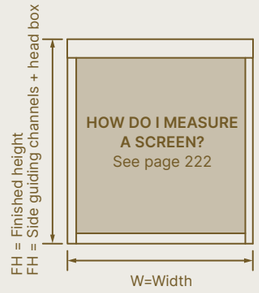


37 km/h | SMOOTH TECHNOLOGY | FIXSCREEN TECHNOLOGY | CONNECT & GO

Design	
Head box dimensions (HxD)	150 mm x 110 mm
Head box extension	-
Square	✓
Retractable bottom bar	✓
Recessed fabric tube	✓
Base plate side guiding channel	At an angle of 0° or 5°
Wind resistance	
Wind classification EN13561:2004	-
Wind tunnel test report	WTT14-001
Guaranteed wind resistance	Up to 37 km/h in closed position
Control	
Detecto Renson motor Safety First (without obstacle detection)	✓
Somfy mechanic motor	✓
Somfy IO radio-controlled motor	✓
Certificates	
Declaration of Performance (DoP)	CAP-2015SC00004

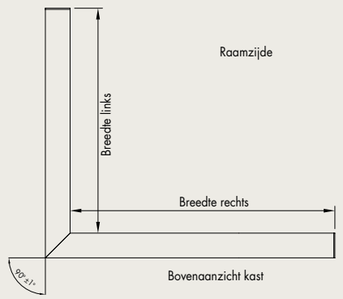
Dimensions		
Panovista		
Fibre glass fabric Sergé / Natté / Privacy	Min. width	650 mm section (width) without motor
		800 mm section (width) with motor
	Max. width	4000 mm per section
	Max. height	2800 mm
	Max. surface area	11.2 m² per section
		22.4 m² total
Panovista Coupled with Fixscreen 100 Slim IM 7A		
Fibre glass fabric Sergé / Natté / Privacy	Min. width Panovista	650 mm section (width) without motor
		800 mm section (width) with motor
	Min. width Fixscreen 100 Slim IM 7A	900 mm
	Max. width Panovista	4000 mm per section
	Max. width Fixscreen 100 Slim IM 7A	4500 mm
	Total coupled width	6000 mm
	Max. height	2800 mm

NOTE
- Coupling is only possible with the Fixscreen 100 Slim IM 7A
- A wind sensor is mandatory
- Only applicable on outer corner
- The necessary bearing strengthof the construction is 170 N/m head box
- Installation training is mandatory for the installer

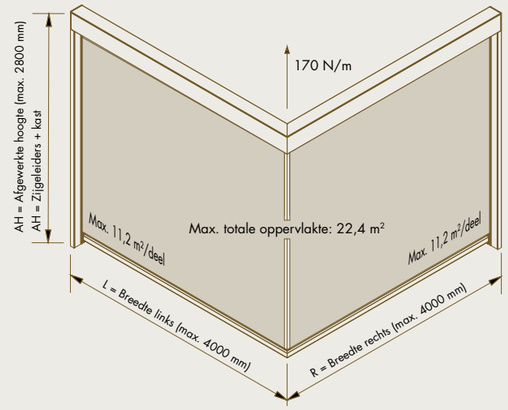


HOW DO I MEASURE A SCREEN?
See page 222

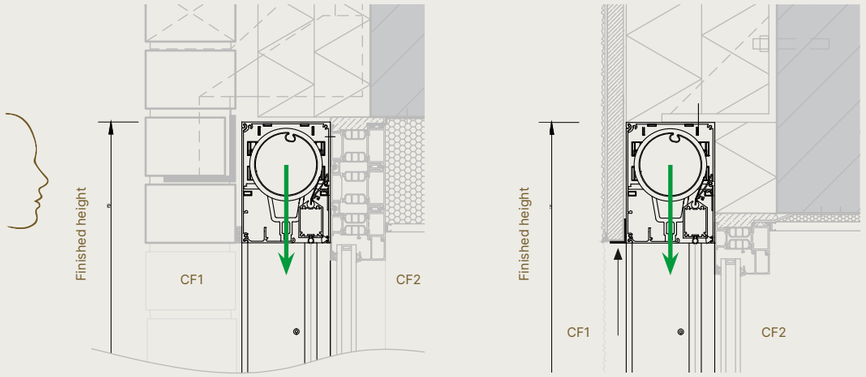
TOP VIEW HEAD BOX



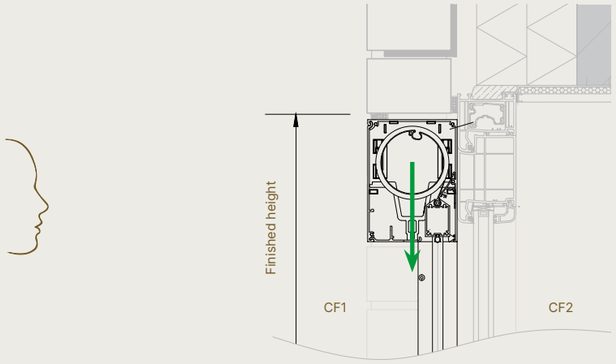
3D VIEW



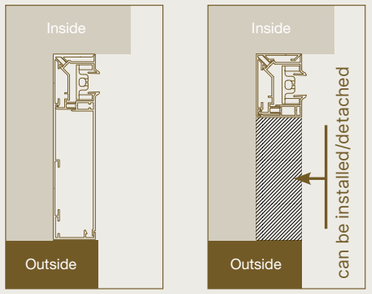
Drawing recessed masonry/plaster



Drawing surface-mounted masonry

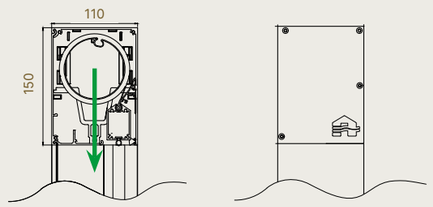


Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed



Note: When choosing the narrow side guiding channel G, the customer must foresee something detachable under the head box in order to be able to disassemble the fabric set underneath (H = min. 680 mm).

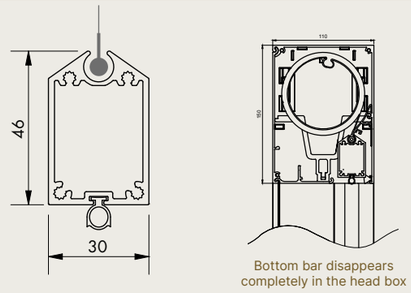
Head box



Section

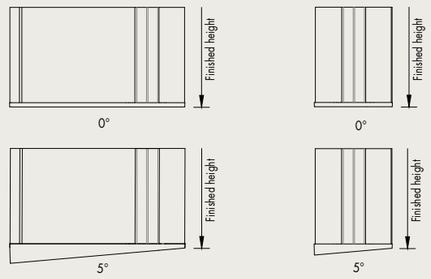
Side view

Bottom bar

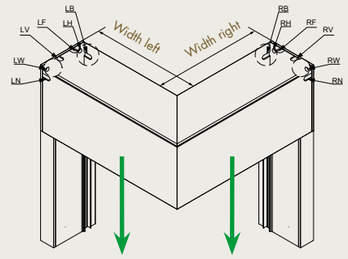


Bottom bar disappears completely in the head box

Base plate side guiding channel



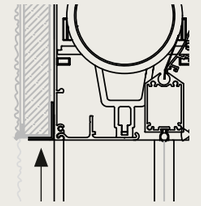
Cable feed



Feed	Location of feed
B	rear
F	top
H	side
N	front
V	top
W	side

Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed

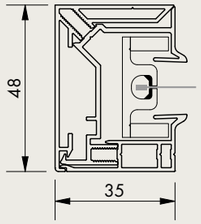
Plaster profile



Plaster profile 20 mm x 30 mm or 30 mm x 30 mm

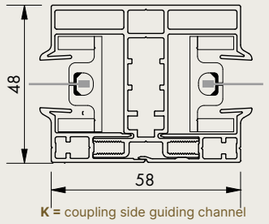
Side guiding channels

G



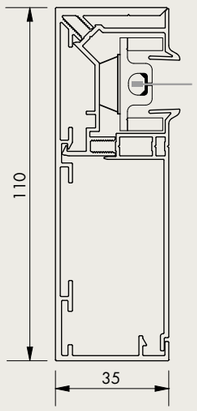
G = closed side guiding channel

K



K = coupling side guiding channel

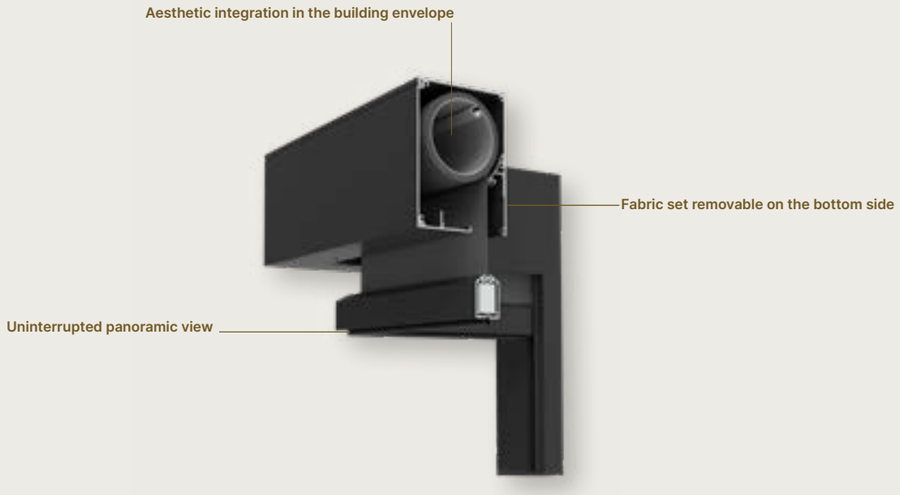
D



D = deep side guiding channel (standard)

PANOVISTA® MAX

NEW BUILD AND EXTENSIVE RENOVATION

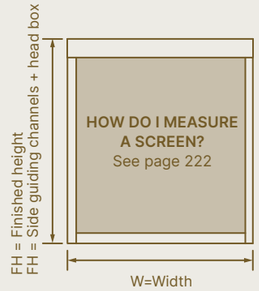


90 km/h | SMOOTH TECHNOLOGY | FIXSCREEN TECHNOLOGY | CONNECT & GO

Design	
Head box dimensions (HxD)	150 mm x 155 mm
Head box extension	-
Square	✓
Bottom bar partially retractable	✓
Recessed fabric tube	✓
Base plate side guiding channel	At an angle of 0° or 5°
Wind resistance	
Wind classification EN13561:2004	-
Wind tunnel test report	WTT15-001
Guaranteed wind resistance	Up to 90 km/h in closed position
Control	
Detecto Renson motor Safety First	-
Somfy mechanic motor	✓
Somfy IO radio-controlled motor	✓
Certificates	
Declaration of Performance (DoP)	CAP-2015SC00004

Dimensions		
Panovista Max		
Fibre glass fabric Sergé / Natté / Privacy	Min. width	650 mm section (width) without motor
		850 mm section (width) with motor
	Max. width	6000 mm per section
		12,000 mm total
	Max. height	3400 mm
	Max. surface area	20.4 m² per section
		30 m² total

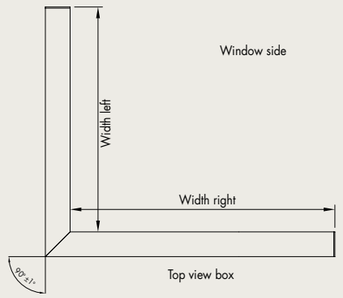
NOTE
- Only applicable on outer corner
- Joining is not possible
- A wind sensor is mandatory
- Always secure head box and bracket to upper construction/structure. The necessary load-bearing capacity of the structure at the corner brace is 230 N/m per metre head box
- Installation training is mandatory for the installer
- Mandatory annual maintenance



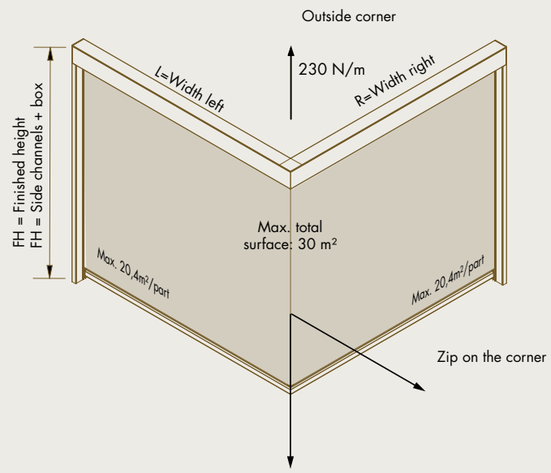
HOW DO I MEASURE A SCREEN?
See page 222

Zip colours		
Ref.	**Colour**	
02	White	
20	Linen	
32	Beige	
07	Pearl grey	
31	Gray-green	
01	Gray	
06	Bronze	
30	Charcoal	

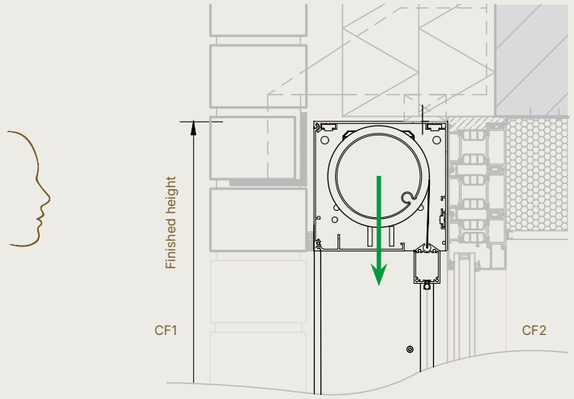
TOP VIEW HEAD BOX



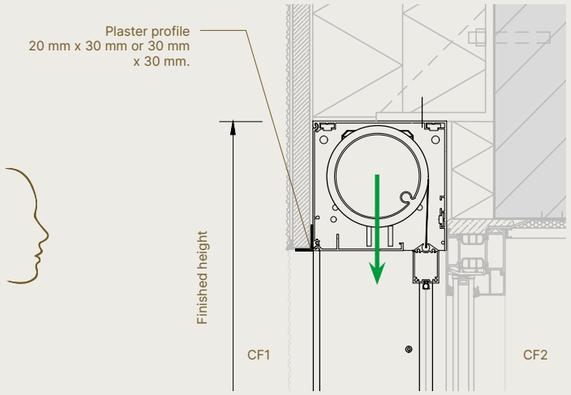
3D VIEW



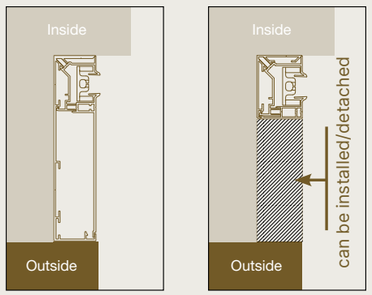
Drawing recessed masonry



Drawing recessed plaster

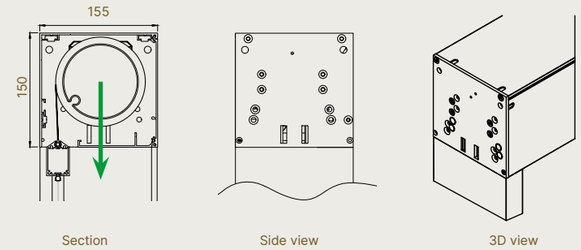


Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed

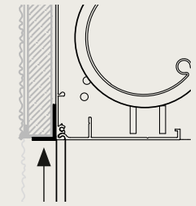


! **Note**: When choosing the narrow side guiding channel G, the customer must foresee something detachable under the head box in order to be able to disassemble the fabric set underneath (H = min. 680 mm).

Head box

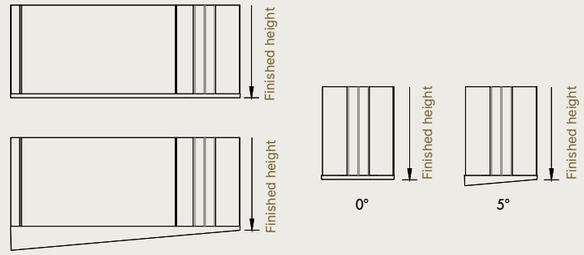


Plaster profile

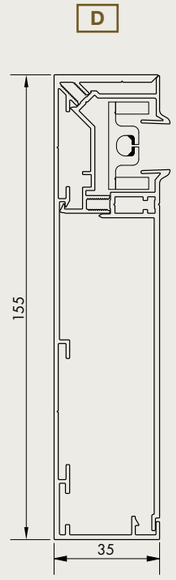


Plaster profile 20 mm x 30 mm
of 30 mm x 30 mm

Base plate side guiding channel



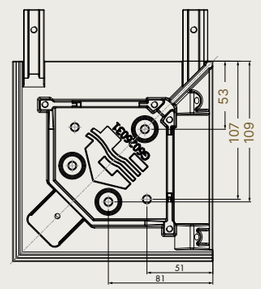
Side guiding channels



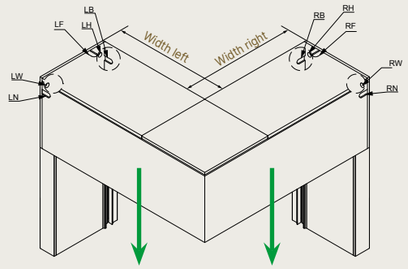
G = closed side guiding channel

D = deep side guiding channel (standard)

Angle bracket (position of drill holes)

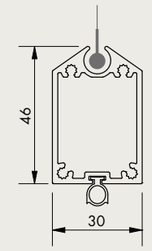


Cable feed



Feed	Location of feed
B	rear
F	top
H	side
N	front
W	side

Bottom bar



Viewing direction determines choice of left or right cable feed ← direction in which fabric set should be removed

HORIZONTAL FABRIC SUN PROTECTION

Horizontal fabric sun protection reflects the heat for skylights, verandas, etc. Surface areas up to maximum 30 m^2 are perfectly possible. Both windproof and non-windproof solutions are possible. Horizontal or angled glazing is also extremely suitable for your home, hospitals, nursing homes, offices, schools, atriums, shopping centres...

TOPFIX® (MAX)

RENSON®

TOPFIX® (VMS)

The Topfix (VMS) is a zenithal, windproof fabric sun protection. Windproofing is achieved by combining a revolutionary tensioning technique with the renowned Fixscreen-technology. The offers unrivalled fabric tension. Flapping and torn fabrics are a thing of the past, even with extreme wind gusts up to 120 km/h.

Topfix VMS is an recognised solution (patented technology) and was specially developed for the Velux® Modular Skylights modules. The Topfix VMS can be fitted both above the fixed and movable modules, thanks to special mounting feet that allow perfect installation.

VELUX® Commercial

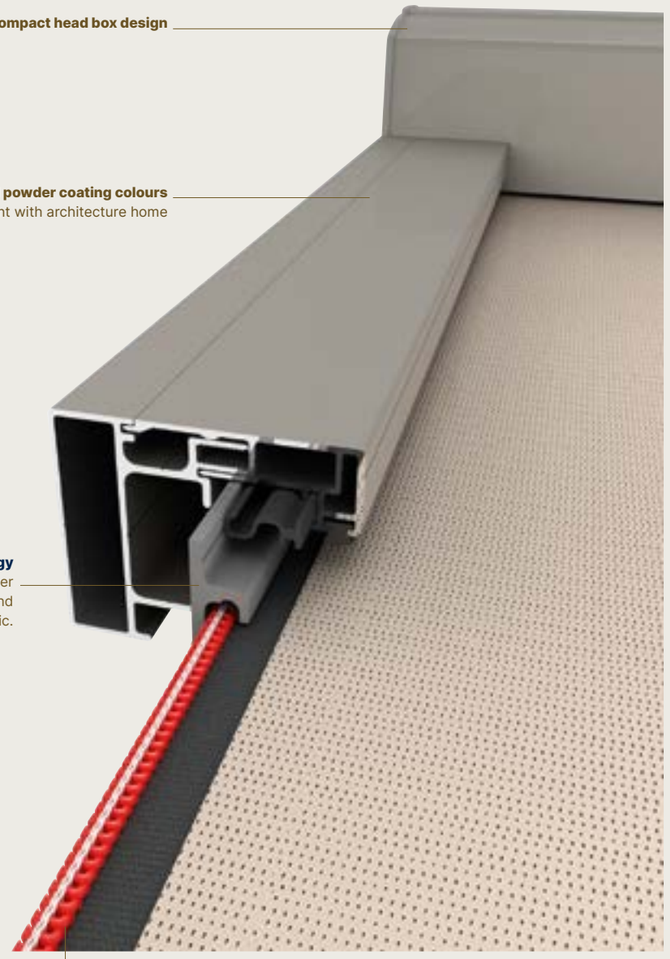
Multi-purpose
Residential or for projects, on all types of windows. Topfix VMS for Velux Modular Skylights, above both fixed and movable modules.

Various installation options
Directly on window or with mounting feet. Top, bottom or side-mounted head box.

Compact head box design

Vast collection of fabrics and powder coating colours
Perfect alignment with architecture home

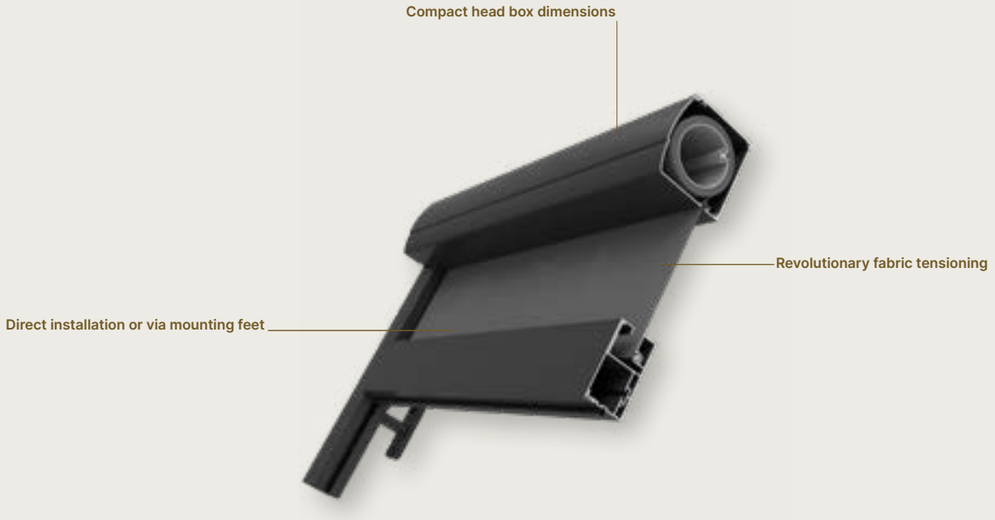
Durable inner rail equipped with Smooth-technology
The patented, co-extruded, wear-resistant top layer in our HPVC inner rail ensures a smooth, durable and soundless guiding of the fabric.



Fixscreen®-technology guarantees high resistance
High wind guarantee up to 120 km/h, thanks to the use of symmetrical zips.

TOPFIX®

RETROFIT



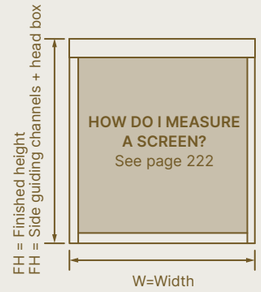
120 km/h | SMOOTH TECHNOLOGY | FIXSCREEN TECHNOLOGY

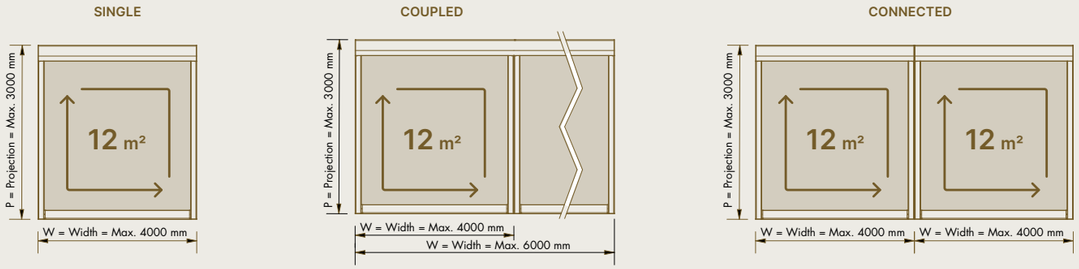
Design	
Head box dimensions (HxD)	105 mm x 100 mm
Head box extension	-
Retractable bottom bar	-
Base plate side guiding channel	-
Wind resistance	
Wind classification EN13561:2004	3
Wind tunnel test report	N° EAR0852
Guaranteed wind resistance	Up to 120 km/h in closed position
Control	
Detecto Renson motor Safety First	-
Rensonmotor, mechanical 24V	✓
Somfy mechanic motor	✓
Somfy IO radio-controlled motor	✓
Certificates	
Declaration of Performance (DoP)	DOP-201409 – F003

Dimensions		
Single screen		
Polyester fabric Soltis Horizon 86 / Soltis Perform 92 Blackout polyester fabric Soltis Opaque B92	Min. width	1000 mm
	Max. width	4000 mm
	Max. projection	3000 mm
	Max. surface area	12 m²
Coupled screen with 1 motor		
Polyester fabric Soltis Horizon 86 / Soltis Perform 92 Blackout polyester fabric Soltis Opaque B92	Min. width	2300 mm
	Max. total width	6000 mm
	Max. section width	4000 mm
	Max. projection	3000 mm
	Max. total surface area	18 m²
Linked screens		
Possible dimensions per section, per fabric type according to 'single screen' table The max total area is 24 m², of which 1 section is max 12 m². Required intermediate dimension (expansion): 1 mm per 1000 mm width		

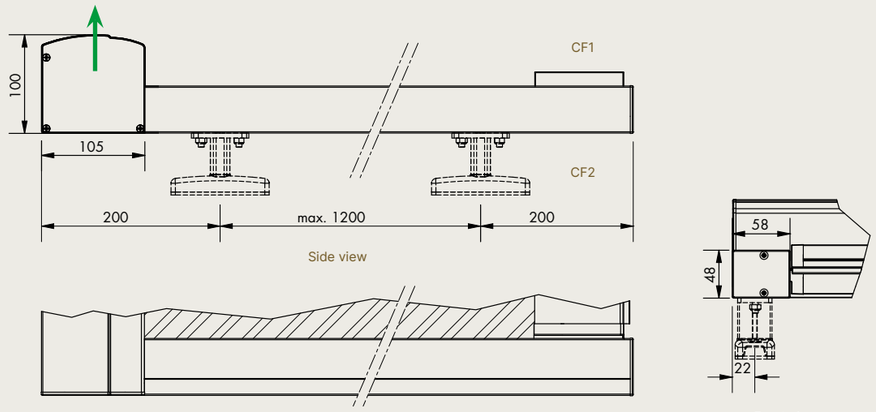
NOTE
- In the case of direct window installation, deflection of the bottom bar must be taken into account.
- If the Topfix is installed across several glass sections, it is strongly recommended to use mounting feet in order to avoid contact between the bottom bar and the window profile.

Fabrics:
- Scope of application for fabric depends on the incline. See separate table 'Inclination angle fabrics for horizontal fabric sun protection' on page 184
- In the case of greater widths, there is a risk of the fabric dragging against the glass surface





Section

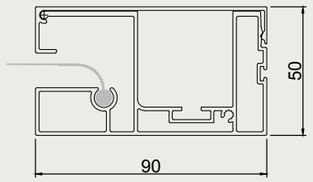


Side view

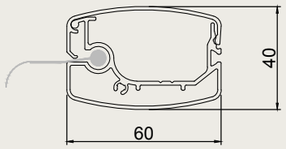
Top view

Front view

Bottom bar



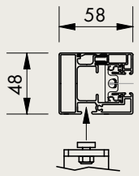
Standard



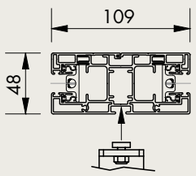
Optional, while supplies last
(or up to max. width ≤ 3000 mm)

Side guiding channels

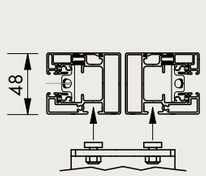
Installation with mounting feet



Single

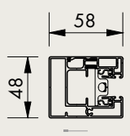


Coupled



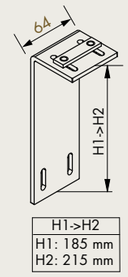
Connected

Installation without mounting feet



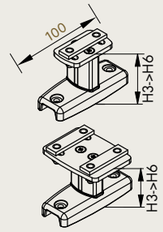
View your Topfix from the perspective from which you remove the fabric set (→). This determines the left or right cable feed option choice.

Mounting feet



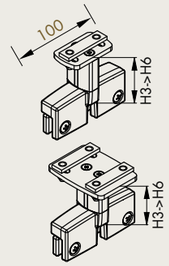
H1->H2
H1: 185 mm
H2: 215 mm

Zijdelings

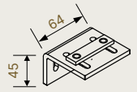


Overhead glass

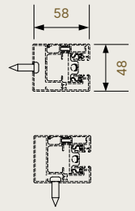
H3->H6
H3: 60 mm
H4: 70 mm (Oxyvent®)
H5: 80 mm
H6: 100 mm



Underlying glass



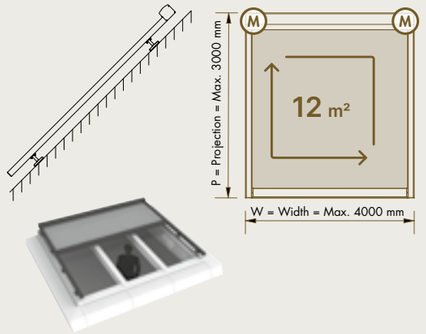
Wall



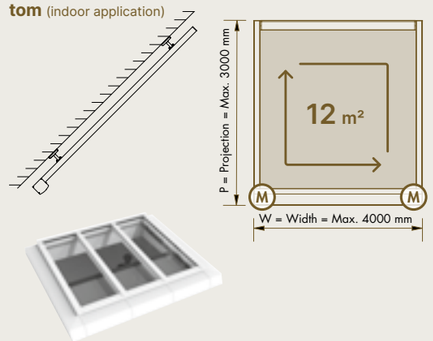
Direct

Installation methods

Head box at the top

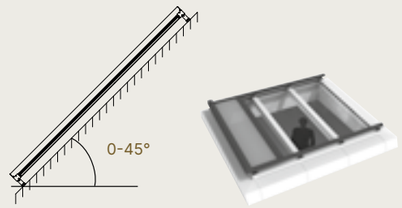


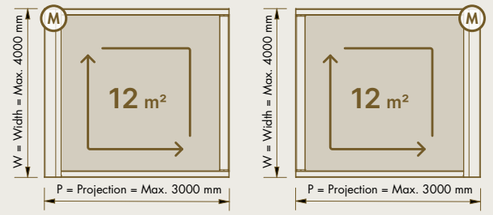
Head box at the bottom (indoor application)



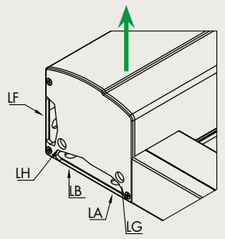
Head box sideways

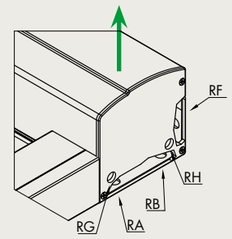
(0-45° - top motor)





Cable feed





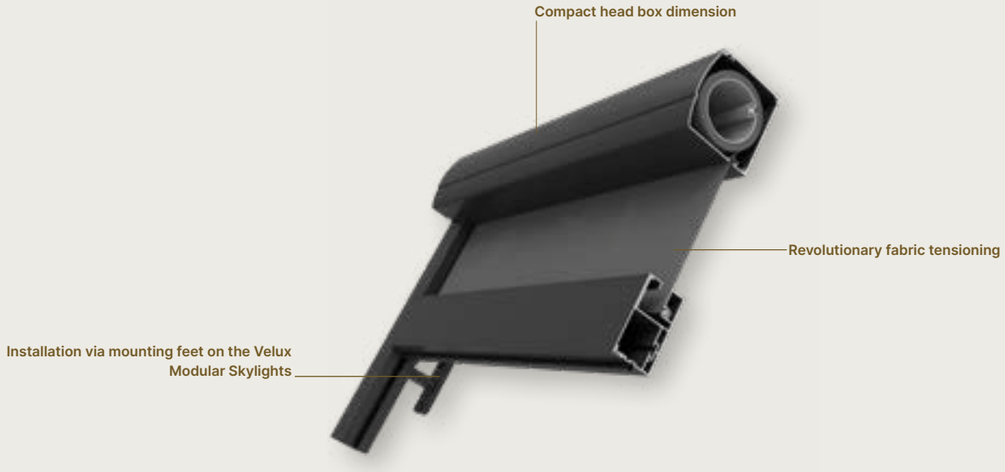
Feed	Feed location
A	rear
B	rear
F	top
G	side
H	side

View your Topfix from the perspective from which you remove the fabric set (→). This determines the left or right cable feed option choice.

TOPFIX® VMS

VELUX Commercial

RETROFIT



120 km/h

SMOOTH TECHNOLOGY

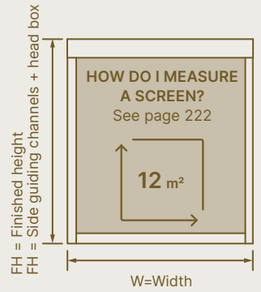
FIXSCREEN TECHNOLOGY

Design	
Head box dimensions (HxD)	105 mm x 100 mm
Head box extension	-
Retractable bottom bar	-
Base plate side guiding channel	-
Wind resistance	
Wind classification EN13561:2004	3
Wind tunnel test report	N° EAR0852
Guaranteed wind resistance	Up to 120 km/h with mounting bases 80 mm Up to 80 km/h with mounting bases 160 mm
Control	
Detecto Renson motor Safety First	-
Rensonmotor, mechanical 24V	✓ (obligatory for smoke extraction)
Somfy IO motor	✓
Becker SMI motor	✓
Certificates	
Declaration of Performance (DoP)	DOP-201409 – F003

Dimensions		
Single screen		
Polyester fabric Soltis Horizon 86 / Soltis Perform 92	Min. width	1000 mm
	Max. width	4000 mm
	Max. projection	3000 mm
	Max. surface area	12 m²

NOTE
- Topfix VMS mounting bases can only be installed on fixed Velux modules, but opening modules may be present between the fixed modules
- For all requirements and preconditions to ensure correct installation on Velux windows: see product specification file
- The necessary sensors or programming within your building management system must be provided
- Installation training is mandatory for the installer

Options:
- Toolkit case optionally available
- Setting cable for Becker SMI and Rensonmotor (24V) optionally available



TIP from VELUX® - Powder coating colours:
If you want to order the Topfix VMS in the same colour as the exterior colour of the VELUX® Modular Skylight. Renson reference: Akzo, YW359F
If you want to order the Topfix VMS in the same colour as the interior colour of the VELUX® Modular Skylight. Renson reference: Axalta, AE70019100125, RAL9010

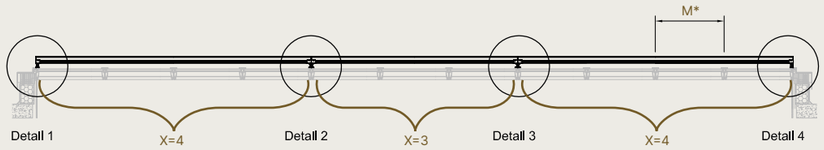

Exterior colour

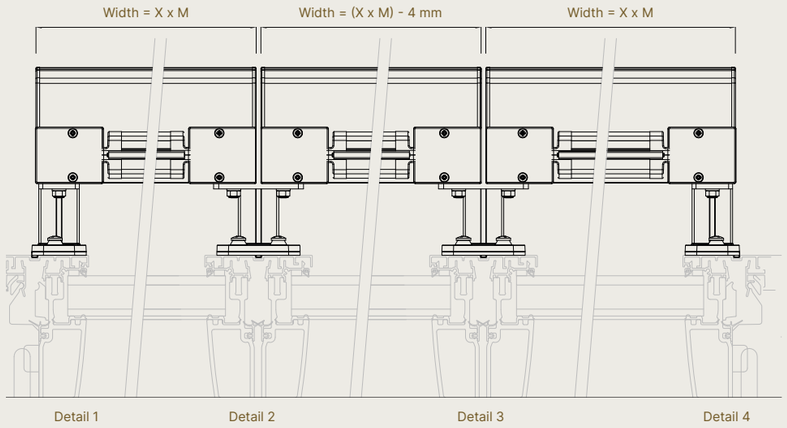

Interior colour

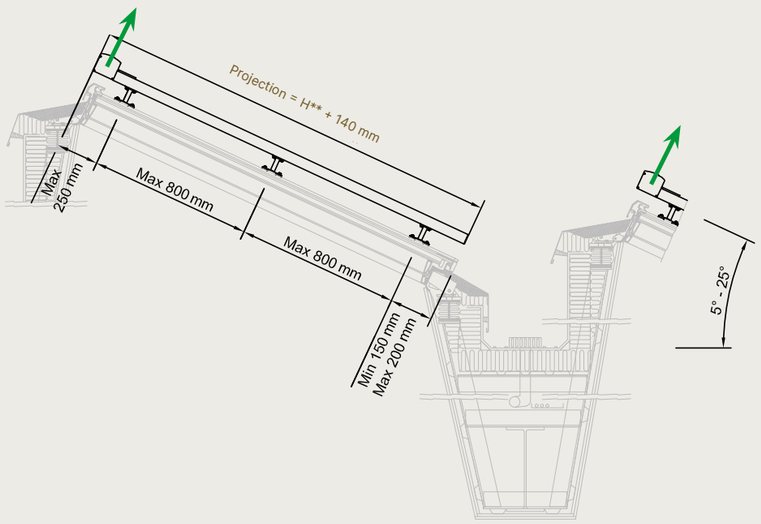
TIP from VELUX® - Fabric colours:

S86 – 2044	
S92 – 2044	

Section



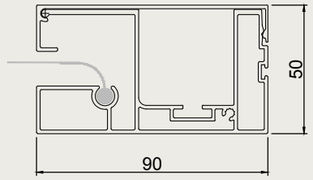




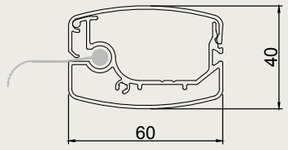
* M is the width of the underlying VMS module
** H is the projection of the underlying VMS module

View your Topfix from the perspective from which you remove the fabric set (←).
This determines the left or right cable feed option choice.

Bottom bar

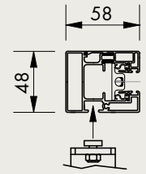


Standard

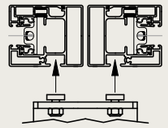


Optional, while supplies last
(with max. width ≤ 3000 mm)

Side guiding channels



Single



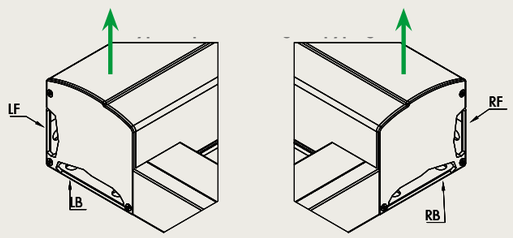
Connected

Mounting feet

H1 → H2 *
H1: 80 mm H2: 160 mm

* Depending on control

Cable feed



Feed	Feed location
B	rear
F	top

View your Topfix from the perspective from which you remove the fabric set (→).
This determines the left or right cable feed option choice.

TOPFIX® MAX (F)

RENSON®

TOPFIX® MAX (F)

This horizontal sun protection features a new revolutionary tensioning technique that can handle large surface areas. This integrated tensioning technique achieves unrivalled fabric tension. Flapping and torn fabric are a thing of the past. Topfix Max reflects the heat for skylights, verandas, etc. In combination with a blackout fabric, complete blackout can be achieved in indoor and outdoor applications – and this up to 30 m². Topfix Max Freestanding can be installed in open structures. This provides room for numerous new installation options that contribute to the Renson® Outdoor Concept.

1. MULTI-PURPOSE

The Topfix Max range can be used everywhere, in private homes or projects such as hospitals, offices, schools... It can also be applied to all types of windows.

2. VARIOUS INSTALLATION OPTIONS

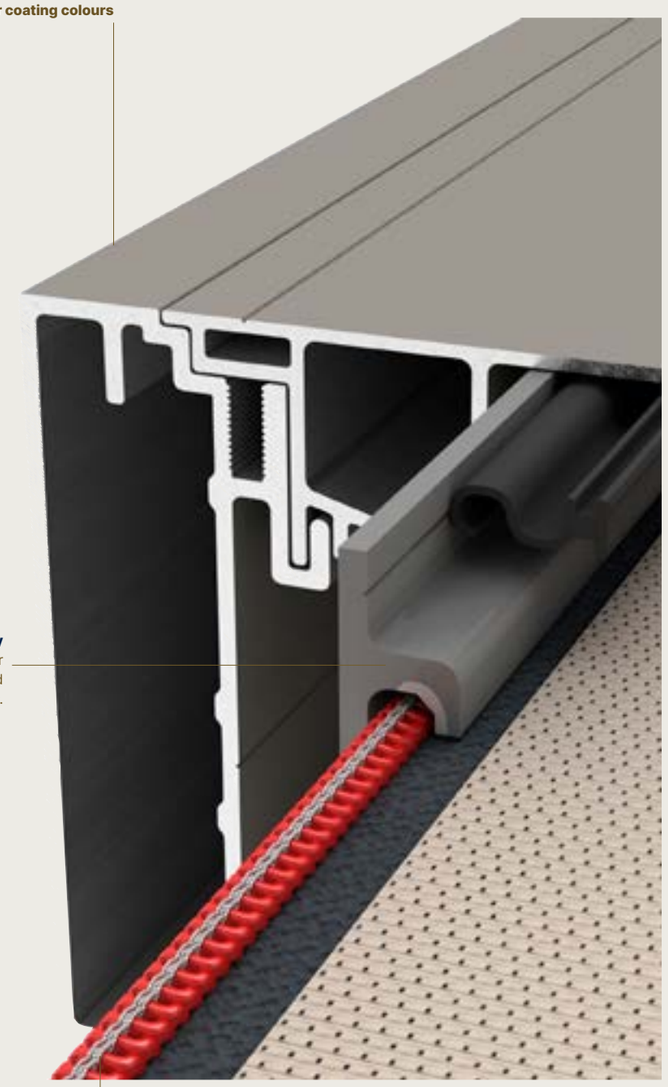
There is a solution for every specific application. The Topfix Max can be installed directly on the window or using different types of mounting bases. Topfix Max is also suitable for both indoor and outdoor sun protection. Additionally, the head box can be installed at the top or bottom.

3. LARGE SURFACE AREAS

Thanks to its integrated tensioning technology, Topfix Max (F) is the first windproof fabric sun protection that can handle extremely large surface areas up to 30 m²

With integrated water drainage (Topfix Max F)

Vast collection of fabrics and powder coating colours



Durable inner rail equipped with Smooth-technology
The patented, co-extruded, wear-resistant top layer in our HPVC inner rail ensures a smooth, durable and soundless guiding of the fabric.

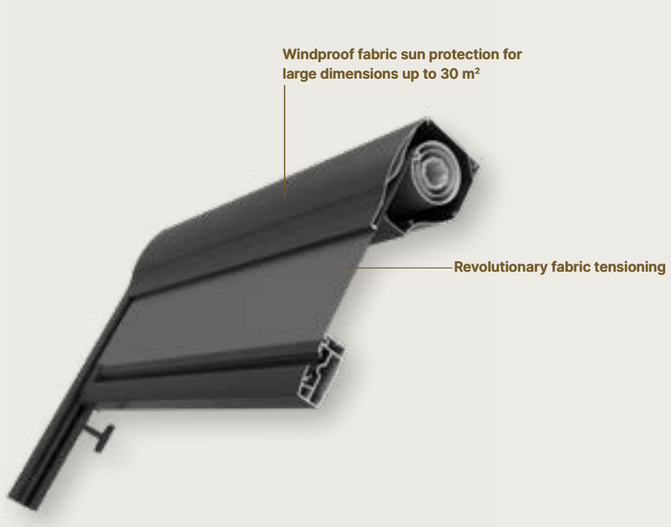
SMOOTH
TECHNOLOGY

Fixscreen-technology guarantees high wind resistance
High wind guarantee up to 120 km/h, thanks to the use of symmetrical zips.

FIXSCREEN
TECHNOLOGY

TOPFIX® MAX

RETROFIT



120 km/h

SMOOTH TECHNOLOGY

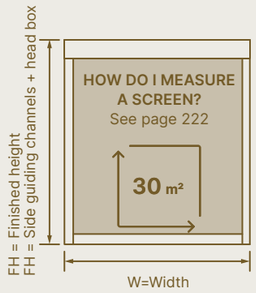
FIXSCREEN TECHNOLOGY

Design	
Head box dimensions (HxD)	260 mm x 202 mm
Head box extension	-
Retractable bottom bar	-
Base plate side guiding channel	-
Wind resistance	
Wind classification EN13561:2004	3
Wind tunnel test report	-
Guaranteed wind resistance	Up to 120 km/h in closed position
Control	
Detecto Renson motor Safety First	-
Somfy mechanic motor	✓
Somfy IO radio-controlled motor	✓
Wind resistance	
Declaration of Performance (DoP)	DOP-201409 – F003

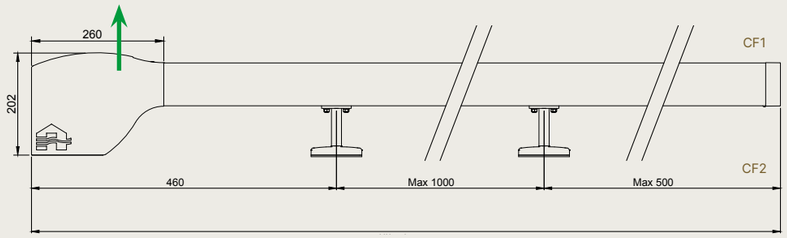
Dimensions			
Single screen			
Polyester fabric Soltis Horizon 86 / Soltis Perform 92 **Blackout polyester fabric Soltis Opaque B92**	Min. width	1225 mm	
	Max. width	5000 mm	6000 mm
	Max. projection	6000 mm	5000 mm
	Max. surface area	30 m²	
Linked screens			
Possible dimensions per section, per fabric type according to 'single screen' table The max total area is 60 m², of which 1 section is max 30 m². Required intermediate dimension (expansion): 1 mm per 1000 mm width			

NOTE
- Head box must always be supported.
- It is recommended that at least two people install the product. Weight: ± 25 to 30 kg/rm.
- Depending on the inclination angle (0°-90° in case the head box is positioned at the bottom), an external support bracket is supplied to prevent the head box from sliding out of the side guiding channels.
- Depending on the inclination angle (45°-90° in case the head box is positioned at the top), an internal support bracket is supplied to prevent the head box from sliding out of the fabric set.

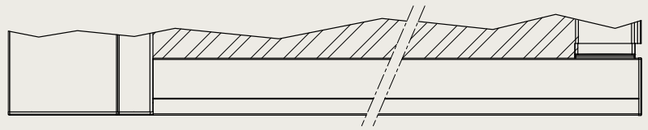
Fabrics:
- Horizontal sun protection ≠ protection against rain
- Scope of application for fabric depends on the incline. See separate table 'Inclination angle fabrics for horizontal fabric sun protection' on page 184



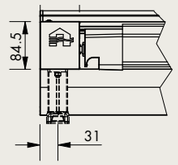
Sections



Side view

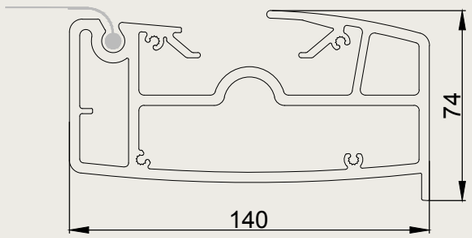


Top view



Front view

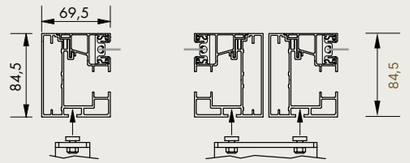
Bottom bar



View your Topfix Max from the perspective from which you remove the fabric set (⟵).
This determines the left or right cable feed option choice.

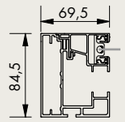
Side guiding channels

With mounting bases

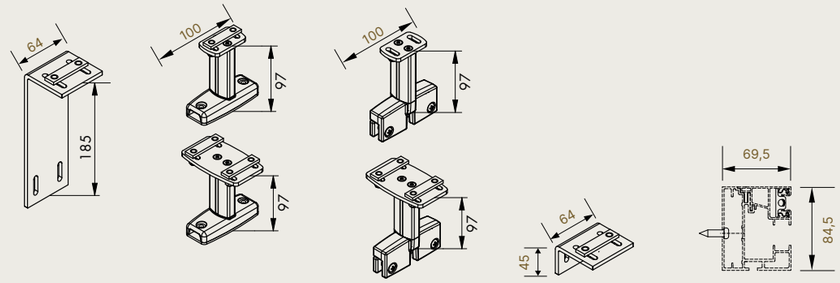


Single Linked

Without mounting bases



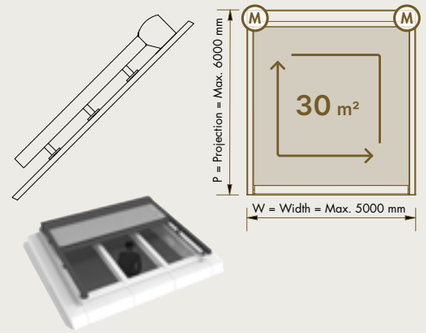
Mounting feet



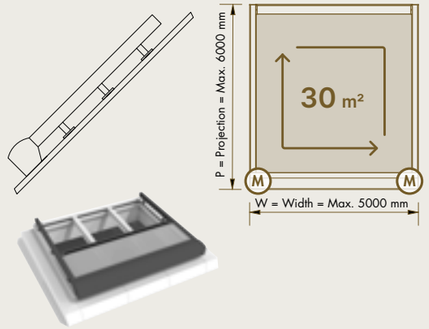
Side Glass above Glass below Wall Direct

Installation methods

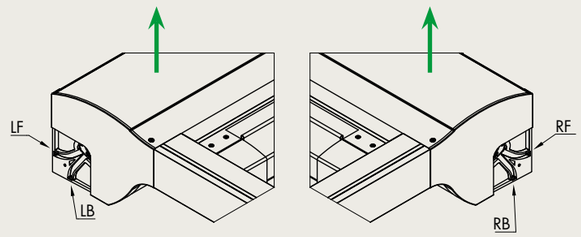
Head box at the top



Head box at the bottom



Cable feed



Feed	Feed location
B	rear
F	top

View your Topfix Max from the perspective from which you remove the fabric set (⟶).
This determines the left or right cable feed option choice.

TOPFIX® MAX FREESTANDING

FREESTANDING

120 km/h

SMOOTH TECHNOLOGY

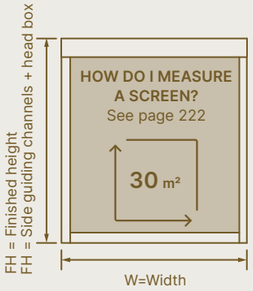
FIXSCREEN TECHNOLOGY

Design	
Head box dimensions (HxD)	260 mm x 202 mm
Head box extension	-
Retractable bottom bar	-
Base plate side guiding channel	-
Wind resistance	
Wind classification EN13561:2004	3
Wind tunnel test report	-
Guaranteed wind resistance	Up to 120 km/h in closed position
Control	
Detecto Renson motor Safety First	-
Somfy mechanic motor	-
Somfy IO radio-controlled motor	✓
Certificates	
Declaration of Performance (DoP)	DOP-201409 – F003

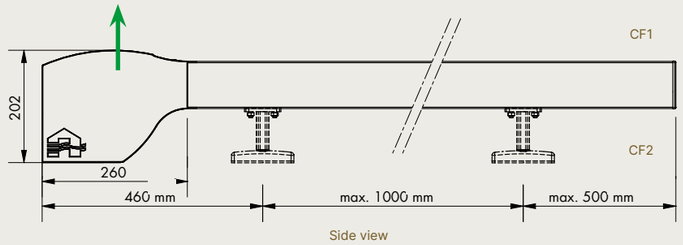
Dimensions			
Single screen			
Polyester fabric Soltis Horizon 86 / Soltis Perform 92 **Blackout polyester fabric Soltis Proof W96**	Min. width	1225 mm	
	Max. width	5000 mm	6000 mm
	Max. projection	6000 mm	5000 mm
	Max. surface area	30 m²	
Linked screens			
Possible dimensions per section, per fabric type according to 'single screen' table The max total area is 60 m², of which 1 section is max 30 m². Required intermediate dimension (expansion): 1 mm per 1000 mm width			

NOTE
- Head box must always be supported.
- It is recommended that at least two people install the product. Weight: ± 25 to 30 kg/rm.

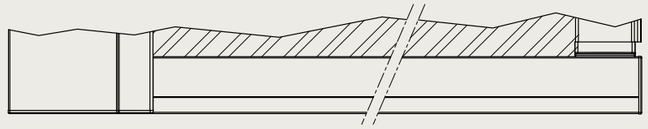
Fabrics:
- Horizontal sun protection ≠ protection against rain
- Scope of application for fabric depends on the incline. See separate table 'Inclination angle fabrics for horizontal fabric sun protection' on page 184



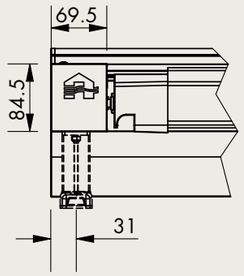
Sections



Side view

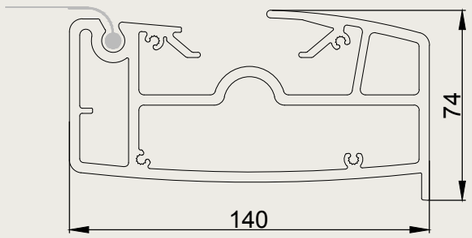


Top view



Front view

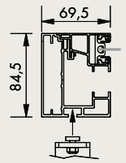
Bottom bar



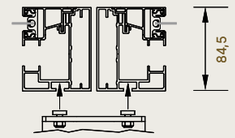
View your Topfix Max F from the perspective from which you remove the fabric set (←).
This determines the left or right cable feed option choice.

Side guiding channels

With mounting feet

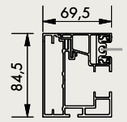


Single

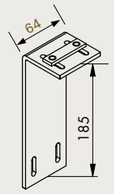


Connected

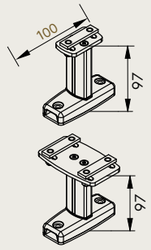
Without mounting feet



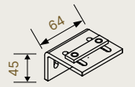
Mounting feet



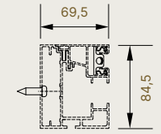
Side



Glass above



Wall



Direct

Cable feed

Feed	Feed location
B	rear
F	top

View your Topfix Max F from the perspective from which you remove the fabric set (→).
This determines the left or right cable feed option choice.

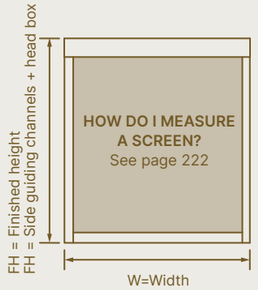
VEGASCREEN®

RETROFIT

Dimensions		
Single screen		
Polyester fabric Soltis Horizon 86 / Soltis Perform 92 **Blackout polyester fabric Soltis Soltis Opaque B92**	Min. width	900 mm
	Max. width	4500 mm
	Max. projection	6000 mm
	Max. surface area	27 m²/single section
Coupled screen		
Idem 'single screen' 2-part (1 motor)	Min. width	4001 mm
	Max. overall width	8000 mm
	Max. section width	4000 mm
	Max. projection	6000 mm
	Max. surface area	24 m²/coupled section
Linkable screen		
Possible dimensions per section, per fabric type according to 'single screen' table The max total surface area is 54 m², of which 1 section is max 27 m². Required intermediate dimension (expansion): 1 mm per 1000 mm width		

NOTE

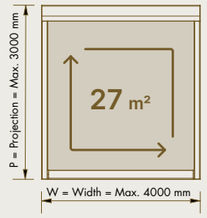
- From 3000 mm projection, one additional supporting roller from 5000 mm projection, two additional supporting rollers
- The fabric tube is fitted with a click-profile for easy fabric replacement (see page 23)**Fabrics:**
- Horizontal sun protection does not offer any protection against rain
- Scope of application for fabric depends on the incline. See separate table 'Inclination angle fabrics for horizontal fabric sun protection' on page 184
- Head box cannot be placed upside down



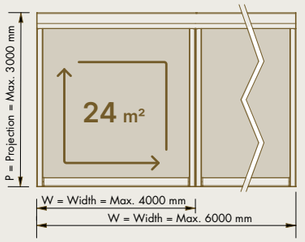
HOW DO I MEASURE A SCREEN?
See page 222

Design	
Head box dimensions (HxD)	230 mm x 140 mm
Head box extension	-
Retractable bottom bar	-
Base plate side guiding channel	-
Fabric tube with click-profile	✓
Wind resistance	
Wind classification EN13561:2004	-
Wind tunnel test report	-
Guaranteed wind resistance	-
Control	
Detecto Renson motor Safety First	-
Somfy mechanic motor	✓
Somfy IO radio-controlled motor	✓
Certificates	
Declaration of Performance (DoP)	DOP-201409 – F003

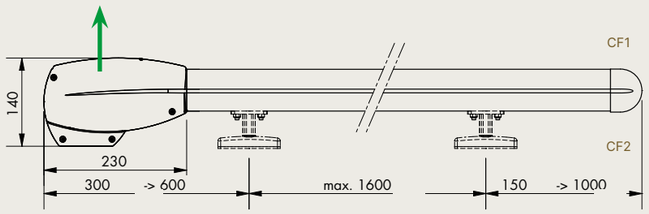
SINGLE



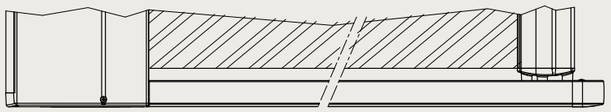
COUPLED



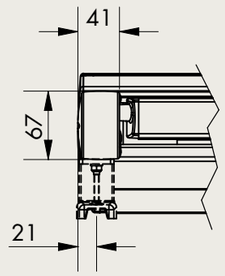
Sections



Side view

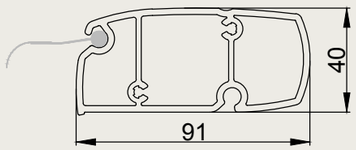


Top view



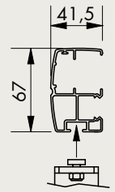
Front view

Bottom bar

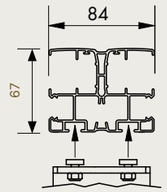


View your Vegascreen from the perspective from which you remove the fabric set (←).
This determines the left or right cable feed option choice.

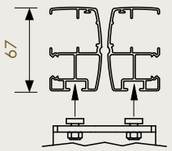
Side guiding channels



Single

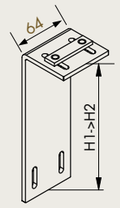


Coupled



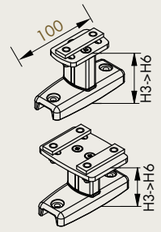
Connected

Mounting feet



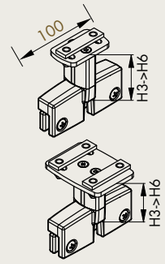
H1->H2
H1: 185 mm
H2: 215 mm

Side

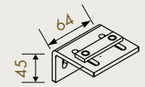


Overhead glass

H3->H6
H3: 60 mm
H4: 70 mm (Oxyvent®)
H5: 80 mm
H6: 100 mm



Underlying glass



Wall

FABRIC RANGE

HOW DO I CHOOSE A FABRIC?

In addition to their functional role, blocking the sun, screen fabrics also have a decorative aspect. This ensures that they align seamlessly with the home's architecture. In addition, all fabrics have an exceptionally long lifespan and keep insects out. We distinguish fabrics based on transparency and light transmission, with a wide range of secondary options. Thanks to their specific characteristics and extensive colour palette, there is a suitable fabric type for every application.

Screen selector
Try our digital & interactive screen selector online

1 What is the application of the screen?

A particular fabric sun protection chosen depending on the application. Not all fabrics can be used in all products, so this can already be a first step in selecting the desired fabric. For example, we recommend fibre glass fabrics for the Fixscreen, while polyester fabrics are chosen for a Topfix.

		Transparent sun protection fabric							Transparent sun protection fabric	Insect-proof fabric	Blackout fabric		
		Fibre glass fabric*			Polyester fabric				Polyester fabric		Fibre glass fabric	Polyester fabric	
		Sergé	Natté	Privacy	Soltis® Veozip	Soltis® Horizon 86	Soltis® Perform 92		Soltis® Proof W96	Tuffscreen	Satiné 21154	Soltis® Opaque B92	
Vertical sun protection	Fixscreen®	✓	✓	✓	✓	✓	✓		–	✓	✓	✓	Fixscreen®
	Fixscreen® Freestanding	✓	✓	✓	✓	–	–		–	✓	–	–	Fixscreen® F
	Fixscreen® Minimal	✓	✓	✓	–	–	–		–	✓	✓	–	Fixscreen® Minimal
	Fixscreen® Minimal Freestanding	✓	✓	✓	–	–	–		–	✓	–	–	Fixscreen® Minimal F
	Fixvent® / Fixscreen® Mono AK	✓	✓	✓	–	✓	✓		–	✓	✓	✓	Fixvent®/Fixscreen® Mono AK/UT
	Panovista® (Max)	✓	✓	✓	–	–	–		–	–	–	–	Panovista® (Max)
Horizontal sun protection	Topfix®	–	–	–	–	✓	✓		–	–	–	✓	Topfix®
	Topfix® VMS	–	–	–	–	✓	✓		–	–	–	–	Topfix® VMS
	Topfix® Max	–	–	–	–	✓	✓		–	–	–	✓	Topfix® Max
	Topfix® Max Freestanding	–	–	–	–	✓	✓		✓	–	–	–	Topfix® Max F
	Vegascreen®	–	–	–	–	✓	✓		–	–	–	✓	Vegascreen®

* Option crystal window in the full width on page 202

NOTE
For the limitations in dimensions (see product pages) and the table for inclination angle fabrics (see page 184).

Did you know?
- A fabric in a dark colour offers the best view through to the outside?
- A fabric in a lighter colour reflects more sunrays than one in a darker colour?
- A fully blackout fabric is the best choice for your bedrooms?
- Fibre glass & polyester fabrics can be printed for extra personalisation?
- An insect mesh repels insects but offers little sun protection?

INCLINATION ANGLE FABRICS HORIZONTAL SUN PROTECTION

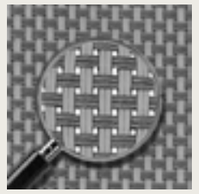
			Polyester fabric				Fibre glass
			Soltis® Horizon 86	Soltis® Perform 92	Soltis® Opaque B92	Soltis® Proof W96	
INCLINATION ANGLE*	WIDTH	PROJECTION	Sun protection (water-repellent depending on fabric type)				
Topfix®							
H ≤ 8°	W ≤ 4000 mm	U ≤ 3000 mm	✓	-	-	-	-
8° < H ≤ 20°	W ≤ 4000 mm	U ≤ 1500 mm	✓	✓	✓	-	-
	W ≤ 1250 mm	1500 < U ≤ 3000 mm	✓	✓	✓	-	-
	1250 < W ≤ 4000 mm		✓	✓	-	-	-
H > 20°	W ≤ 4000 mm	U ≤ 3000 mm	✓	✓	✓	-	-
Topfix® VMS							
H ≤ 8°	W ≤ 4000 mm	U ≤ 3000 mm	✓				
H > 8°	W ≤ 4000 mm	U ≤ 3000 mm	✓	✓			
Topfix® Max							
H ≤ 8°	W ≤ 5000 mm	U ≤ 6000 mm	✓				
8° < H ≤ 15°	W ≤ 4000 mm	4000 < U ≤ 6000 mm	✓	✓	✓		
	4000 < W ≤ 5000 mm		✓				
H > 15°	W ≤ 5000 mm	U ≤ 6000 mm	✓	✓	✓		
	W ≤ 6000 mm	U ≤ 5000 mm	✓				
Topfix® Max F							
H ≤ 6°	W ≤ 5000 mm	U ≤ 6000 mm	✓				
6° < H ≤ 7°	W ≤ 2000 mm	U ≤ 5000 mm	✓	✓			
	W ≤ 5000 mm	U ≤ 6000 mm	✓				
7° < H ≤ 8°	W ≤ 3000 mm	U ≤ 5000 mm	✓	✓			
	W ≤ 5000 mm	U ≤ 6000 mm	✓				
8° < H ≤ 9°	W ≤ 2000 mm	U ≤ 5000 mm	✓	✓		✓	
	W ≤ 4000 mm	U ≤ 6000 mm	✓	✓			
	4000 < W ≤ 5000 mm		✓				
9° < H ≤ 10°	W ≤ 3000 mm	U ≤ 5000 mm	✓	✓		✓	
	W ≤ 4000 mm	U ≤ 6000 mm	✓	✓			
	4000 < W ≤ 5000 mm		✓				
10° < H ≤ 11°	W ≤ 3000 mm	U ≤ 5000 mm	✓	✓		✓	
	W ≤ 4000 mm	U ≤ 6000 mm	✓	✓		✓	
	4000 < W ≤ 5000 mm		✓				
11° < H ≤ 13°	W ≤ 4000 mm	U ≤ 6000 mm	✓	✓		✓	
	4000 < W ≤ 5000 mm		✓			✓	
H > 13°	W ≤ 5000 mm	U ≤ 6000 mm	✓			✓	
	W ≤ 6000 mm	U ≤ 5000 mm	✓			✓	

Note: The less the inclination, the greater the possible sag of the fabric
Width > 4000 mm =≥ High risk of wrinkling

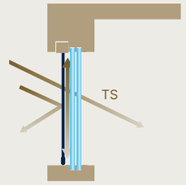
2 What requirements must the screen satisfy?

Different fabric types, colours, weaves... everything has an impact or the technical properties of the fabric. That is why it is important to have a clear idea of what requirements the fabric must satisfy. This again depends on both the building type and the application as well as the use of the space. For instance, the thermal value achieved by a fabric, a certain fire-resistance, the influence of visual parameters, etc. can be decisive.

1. TECHNICAL VALUES OF A FABRIC



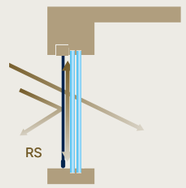
Opening factor (OF)
The larger the opening factor, the greater the light transparency and the better the view through to the inside or outside.



in % ($\tau_{e,\beta}$)

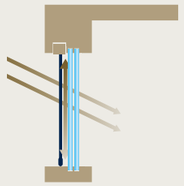
Solar transmittance factor (TS)
Percentage of incident energy passing through the fabric.

Light transmittance factor (TV)
The greater the light transmittance factor, the more light comes through the fabric and the higher the light intensity level (lux) in the room.

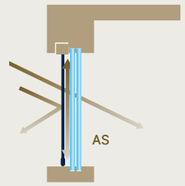


in % ($\rho_{e,\beta}$)

Sun reflection factor (RS)
Percentage of incident energy reflected by the fabric.



Shading coefficient (gtot)
The total percentage of energy that comes inside through a window with sun protection.

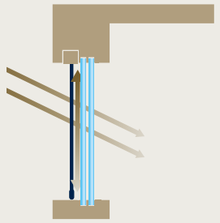


in % ($\alpha_{e,\beta}$)

Solar absorption factor (AS)
Percentage of incident energy absorbed by the fabric.

TS + RS + AS = 100% of the incident energy ($\tau_{e,\beta} + \rho_{e,\beta} + \alpha_{e,\beta} = 1$)

2. THERMAL COMFORT



Solar gain control is expressed by the value $_{gtot}$ or total solar factor. This value is the total percentage of energy that comes inside through a window with sun protection. It therefore reflects how efficient the fabric sun protection is.
The $_{gtot}$ value of fabric sun protection in combination with type C glazing can be classified according to the table below.

Glazing type C 4/16/4 low-emission double glazing
U = 1.2W/m²K
g_g = 0.59

Class*	0	1	2	3	4
g_{tot}	$g_{tot} \geq 0.50$	$0.35 \leq g_{tot} < 0.50$	$0.15 \leq g_{tot} < 0.35$	$0.10 \leq g_{tot} < 0.15$	$g_{tot} < 0.10$
Effect	Very little effect	Little effect	Moderate effect	Good effect	Very good effect

In addition, the $_{gtot}$ value is also given in each case in the case of fabric sun protection in combination with type D glazing.

Glazing type D Reflective 4/16/4 low-emission double glazing
U = 1.1W/m²K
g_g = 0.32

In addition to these values, the reduction factor F is also used. This reduction factor is a measure of the fraction of solar energy left only by the sun protection.

$$F = \frac{g_{tot}}{g_g}$$

Ter info: All our fabric sun protections are listed in the EPB database. This database is coupled to the EPB software 3G. This allows the gtot value to be calculated automatically.

! Opt for thermal comfort and avoid overheating indoors

- A dark fabric blocks heat better
- A fabric with a small opening factor blocks heat better

* Classification of thermal and visual comfort according to NBN EN 14500 & NBN EN 14501

3. VISUAL COMFORT

A. Visual contact with the outside

The degree to which a person inside (at 1 m from the fully lowered fabric sun protection) can distinguish a person or object on the outer side (at 5 m from the fabric sun protection). Visual contact with outside can be classified from 0 to 4 according to the table below.

Class*	0	1	2	3	4
Effect	Very little effect	Little effect	Moderate effect	Good effect	Very good effect

B. Using natural daylight

- Sun shading capacity to reduce the time when artificial lighting is required
- Sun shading capacity to make best use of available daylight

Class*	0	1	2	3	4
Effect	Very little effect	Little effect	Moderate effect	Good effect	Very good effect

C. Glare

- Reduce light contrasts between different areas in the field of vision
- Avoid annoying reflections on screens due to window luminance

Class*	0	1	2	3	4
Effect	Very little effect	Little effect	Moderate effect	Good effect	Very good effect

D. Privacy at night

Capacity of exterior sun protection, when fully closed or lowered, to shield persons from view.

Class*	0	1	2	3	4
Effect	Very little effect	Little effect	Moderate effect	Good effect	Very good effect

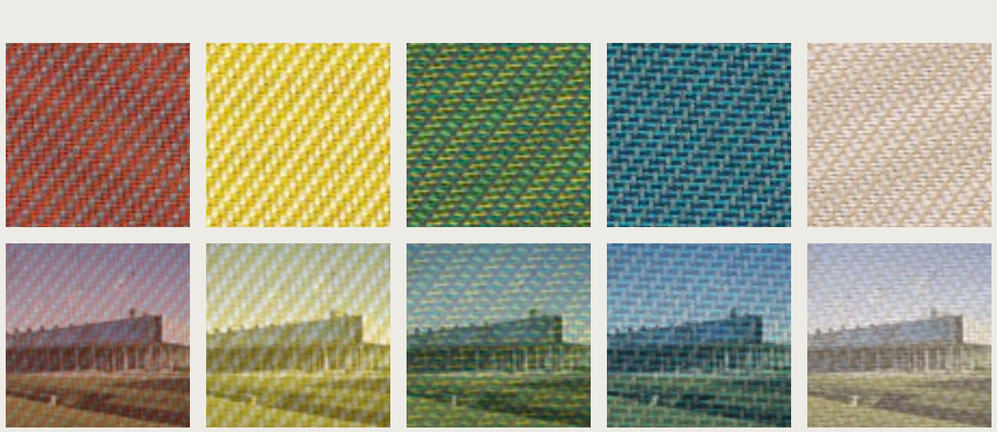
! Opt for visual comfort and still be able to see outside

- A light fabric lets more natural daylight inside
- A fabric with a small opening factor:
  - Offers more privacy
  - Lets less light inside
  - Is better against glare

* Classification of thermal and visual comfort according to NBN EN 14500 & NBN EN 14501

3 What are the customer's personal preferences?

There's no disputing tastes and colours. So it's fortunate that the range of colours and weave patterns is incredibly extensive. The aesthetics of the fabric (colour, weave pattern, confection side, etc.) have an impact on its functionality. The effect will vary slightly each time. Mix and match to find the perfect solution!

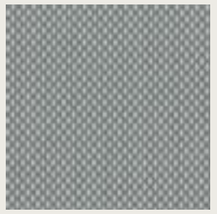


Example of the impact of your fabric colour choice on your environment

WEAVE PATTERN

The look of a fabric is likely to be an important factor in your choice. Aside from colour, the weave pattern also plays a major role. Multiple options are available in fibre glass fabrics, such as tighter weaves or straight weaves.

Sergé

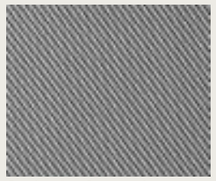


Natté

CONFECTION SIDE

All fabrics have two sides. Confection side 1 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 is the bottom side of the fabric sample in the Renson® fabric sampler. The confection sides are indicated on all technical drawings.

Confection 1 example



Confection 2 example

WELDED SEAM & FABRIC DIRECTION

If both the width and height exceed the size of the fabric set: a welded seam will be visible so that both fabric parts can be Coupled together. The position of this welded seam differs from fabric to fabric and depends on the dimensions of the fabric. The height of the welded seam is always calculated from the lowest point of the framework. Renson® always tries to manufacture your fabric with the least amount of welded seams possible. This means that, per order, we look to see if it is possible to turn the fabrics so that they can be manufactured without any heat-sealed seams.

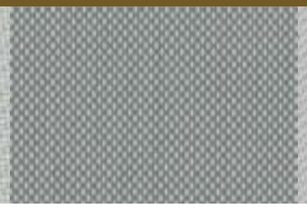
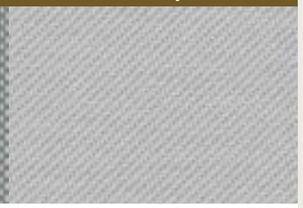
Note!

If the order concerns a follow-up order, then subsequently, it is important that this is indicated. This ensures Renson® can guarantee that the same fabric direction is used as in the first order.

FIBRE GLASS FABRIC

Sergé, Natté, Privacy

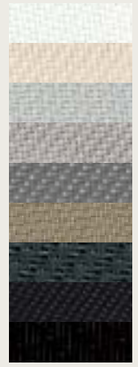
Fibre glass fabrics are made of woven glass fibres with a PVC coating and are available in many colours. Fibre glass fabrics keep their shape and are resistant to humidity and heat, rot-proof and colour-fast. They guarantee a perfect view of the outside world while preventing others from looking in during daylight hours.

Technical properties	Sergé	Natté	Privacy
			
Composition	Glass fibre (42 %) with PVC coating (58 %)		
Available width	From 1350 mm to 2700 mm Limited selection available up to 3200 mm	2500 mm Limited selection available up to 3200 mm	2700 mm
Fire class	Euroclass NF EN 13501-1 (EU): c-s3 d0 NF P 92-503 (FR): M1	Euroclass NF EN 13501-1 (EU): c-s3 d0 (1 mounted according to EN 13823 & EN 14716) NF P 92-503 (FR): M1 DIN 4102-1 (DE): B1 NF F16-101 (FR): F3	Euroclass NF EN 13501-1 (EU): c-s3 d0 (1 mounted according to EN 13823 & EN 14716) DIN 4102-1 (DE): B1 NF P 92-503 (FR): M1 NF F16-101 (FR): F3
Lightfastness	Grade 7 – ISO105 B 02	Grade 7-8 – ISO105 B02	Grade 7 – ISO105 B 02
Thickness	approx. 0.55 mm – EN ISO 5084	approx. 0.53 mm – EN ISO 2286 – 3	approx. 0.80 mm – ISO 5084
Weight	approx. 535 g/m² – NF 12127	approx. 560 g/m² – EN ISO 2286 – 2	approx. 620 g/m² – NF EN 12127
Tearing strength warp	8.5 daN – EN ISO 4674-1	≥ 10 daN – EN 1875 – 3	5.90 daN – ISO 4674-1
Tearing strength weft	7.5 daN – EN ISO 4674-1	≥ 9 daN – EN 1875 – 3	6.20 daN – ISO 4674-1
Breaking strength warp	> 260 daN/5 cm – EN ISO 1421	> 220 daN/5 cm – EN ISO 1421	> 321 daN/5cm – EN ISO 1421
Breaking strength weft	> 225 daN/5 cm – EN ISO 1421	> 200 daN/5 cm – EN ISO 1421	> 277 daN/5 cm – EN ISO 1421
Opening factor	5%	3%	1%

SERGÉ FIBRE GLASS FABRIC

Colours with corresponding RAL colours

Ref.	RAL Equivalent		AS	RS	TS	TV	g_{tot} ext. C	g_{tot} ext. D	Thermal comfort C	Visual contact with the outside	Using natural daylight	Glare	Privacy at night
SC0202 (+)	9003	CF1	13.2	65.9	21.0	21.2	0.15	0.10	2	0	2	1	2
		CF2	12.7	66.3	21.0	21.2	0.15	0.10					
SC2020 (+)	1015	CF1	32.5	52.5	14.9	12.9	0.13	0.09	3	3	2	0	1
		CF2	32.4	52.7	14.9	12.9	0.13	0.09					
SC4949	9006	CF1	53.0	37.0	10.0	9.0	0.11	0.09	3	1	1	1	2
		CF2	53.0	37.0	10.0	9.0	0.11	0.09					
SC0707	7038	CF1	51.7	38.3	10.1	8.4	0.11	0.09	3	3	1	1	1
		CF2	50.5	39.4	10.1	8.4	0.11	0.09					
SC0101 (+)	7037	CF1	81.3	15.1	3.5	3.6	0.10	0.08	3	2	1	3	2
		CF2	81.3	15.1	3.5	3.6	0.10	0.08					
SC1111	7048	CF1 CF2	77.0	18.0	5.0	6.0	0.10	0.09	3	2	1	3	2
SC5959 (NEW)	7016	CF1	87.1	6.7	6.2	6.2	0.11	0.09	4	2	1	3	2
		CF2	87.1	6.7	6.2	6.2	0.11	0.09					
SC3030 (+)	7021	CF1	91.4	5.0	3.6	3.6	0.10	0.09	3	2	1	3	2
		CF2	91.6	4.8	3.6	3.6	0.10	0.09					
SC6060 (NEW)	9005	CF1	92.0	4.0	4.0	5.9	0.09	0.07	3	2	1	3	2
		CF2	92.0	4.0	4.0	5.9	0.09	0.07					



Other colours

Ref.		AS	RS	TS	TV	g_{tot} ext. C	g_{tot} ext. D	Thermal comfort C	Visual contact with the outside	Using natural daylight	Glare	Privacy at night
SCM36 (+)	CF1	27.7	59.8	12.4	11.6	0.11	0.08	3	1	1	1	2
	CF2	23.4	64.2	12.4	11.6	0.10	0.07					
SC2002 (+)	CF1	26.4	58.2	15.5	13.7	0.13	0.09	3	1	2	1	2
	CF2	28.1	56.4	15.5	13.7	0.13	0.09					
SCM45 (+)	CF1	48.7	42.6	8.7	7.8	0.10	0.08	3	3	1	1	1
	CF2	52.4	38.9	8.7	7.8	0.10	0.08					
SC1002 (+)	CF1	39.1	49.2	11.7	10.2	0.11	0.08	3	1	1	1	2
	CF2	43.6	44.6	11.7	10.2	0.12	0.09					
SC0110 (+)	CF1	68.8	26.5	4.7	4.5	0.09	0.08	4	2	1	3	2
	CF2	73.8	21.5	4.7	4.5	0.10	0.08	3				
SC0102 (+)	CF1	56.2	37.2	6.7	6.6	0.09	0.08	4	2	1	3	2
	CF2	66.4	26.9	6.7	6.6	0.10	0.08	3				
SCM31 (+)	CF1	63.0	33.2	3.9	3.6	0.08	0.07	4	2	1	3	1
	CF2	70.9	25.2	3.9	3.6	0.09	0.08					
SC0207 (+)	CF1	37.4	50.9	11.7	9.9	0.11	0.08	3	1	1	1	2
	CF2	41.4	46.9	11.7	9.9	0.11	0.08					
SC0606	CF1	88.0	8.1	3.9	3.8	0.10	0.09	3	2	1	3	2
	CF2	87.7	8.4	3.9	3.8	0.10	0.09					
SC1011 (+)	CF1	87.4	6.5	6.1	6.1	0.09	0.07	4	3	1	1	1
	CF2	87.9	6.0	6.1	6.1	0.09	0.07					
SC0130 (+)	CF1	86.5	9.9	3.6	3.6	0.10	0.09	3	2	1	3	2
	CF2	83.8	12.6	3.6	3.6	0.10	0.08					
SC1006 (+)	CF1	73.2	21.1	5.7	5.0	0.10	0.09	3	2	1	3	2
	CF2	66.3	28.0	5.7	5.0	0.10	0.08					
SC2050	CF1	70.6	21.1	8.3	7.8	0.12	0.09	3	1	1	1	2
	CF2	59.7	32.0	8.3	7.8	0.11	0.09					
SCM33 (+)	CF1	73.4	23.0	3.6	3.0	0.09	0.08	4	2	1	3	2
	CF2	76.5	19.8	3.6	3.0	0.09	0.08					
SC0140 (+)	CF1	76.0	18.4	5.6	4.7	0.10	0.09	3	2	1	3	2
	CF2	77.6	16.8	5.6	4.7	0.11	0.09					

Subject to mistakes and technical changes.

The colours printed here may differ slightly than the actual colours.
Please refer to our fabric swatch for exact colours.

RAL equivalent for orientation • AS: solar absorption factor in % • RS: solar reflection factor in % • TS: solar transmittance factor in % • TV: light transmittance factor in % • g_{tot} ext. in the case of glazing type C according to NBN EN ISO52022-1 • g_{tot} ext. in the case of glazing type D according to NBN EN ISO52022-1 • Classification of thermal and visual comfort according to NBN EN 14500 & NBN EN 14501

CF1 = Confection side 1, top side of fabric sampler • CF2 = Confection side 2, bottom side of fabric sampler

(+): Extra fabric width of 3200 mm for a selection of colours.

These colours are based on the latest trends in the interior design, exterior design and architecture world.

Architects' selection												
Ref.		AS	RS	TS	TV	gtot ext. C	gtot ext. D	Thermal comfort C	Visual contact with the outside	Using natural daylight	Glare	Privacy at night
SC3131	CF1	75.0	17.9	7.1	7.0	0.11	0.09	3	3	1	1	1
	CF2											
SC3231 (+)	CF1	70.4	22.5	7.1	6.6	0.11	0.09	3	3	1	1	1
	CF2	67.6	25.3	7.1	6.6	0.11	0.09					
SC3232 (+)	CF1	63.8	27.9	8.3	7.4	0.11	0.09	3	3	1	1	1
	CF2											
SC3301 (+)	CF1	74.7	17.0	8.3	8.0	0.12	0.10	3	3	1	1	1
	CF2	73.3	18.4	8.3	8.0	0.12	0.10					
SC3332 (+)	CF1	67.5	24.7	7.8	7.3	0.11	0.09	3	3	1	1	1
	CF2	69.7	22.5	7.8	7.3	0.11	0.09					
SC3333 (+)	CF1	72.4	20.5	7.1	6.8	0.11	0.09	3	3	1	1	1
	CF2											

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CF1 = Confection side 1, top side of fabric sampler • CF2 = Confection side 2, bottom side of fabric sampler (+): Extra fabric width of 3200 mm for a selection of colours.

NATTÉ FIBRE GLASS FABRIC

A Natté fibre glass fabric is fabric with a perpendicular weave pattern.

Ref.	RAL Equivalent		AS	RS	TS	TV	g_{tot} ext. C	g_{tot} ext. D	Thermal comfort C	Visual contact with the outside	Using natural daylight	Glare	Privacy at night
N-0202 (+)	9003	CF1	11	70	19	18	0.13	0.09	3	1	2	1	2
		CF2											
N-0220 (+)		CF1	21	62	17	14	0.13	0.09	3	1	2	1	2
		CF2											
N-0207 (+)		CF1	34	53	13	11	0.12	0.08	3	1	2	1	2
		CF2											
N-0201 (+)		CF1	47	44	9	6	0.10	0.08	3	2	1	1	2
		CF2											
N-0701 (+)		CF1	62	30	8	6	0.11	0.08	3	2	1	2	2
		CF2											
N-3001 (+)		CF1	85	12	3	3	0.10	0.08	3	2	1	3	2
		CF2											
N-3006 (+)		CF1	89	8	3	3	0.10	0.09	3	2	1	3	2
		CF2											
N-3030 (+)	7021	CF1	91	6	3	3	0.09	0.08	4	2	1	3	2
		CF2											

Subject to mistakes and technical changes.
The colours printed here may differ slightly than the actual colours. Please refer to our fabric swatch for exact colours.

RAL equivalent for orientation • AS: solar absorption factor in % • RS: solar reflection factor in % • TS: solar transmittance factor in % • TV: light transmittance factor in % • gtot ext. for glazing type C • gtot ext. for glazing type D • Classification of thermal and visual comfort according to NBN EN 14500 & NBN EN 14501

CF1 = Confection side 1, top side of fabric sampler • CF2 = Confection side 2, bottom side of fabric sampler

(+): Extra fabric width of 3200 mm for a selection of colours.

PRIVACY FIBRE GLASS FABRIC

A Privacy (Sergé 1%) fibre glass fabric is a fabric with an openness factor of just 1%. This fabric offers privacy without restricting the view outside.

Ref.	RAL Equivalent		AS	RS	TS	TV	g_{tot} ext. C	g_{tot} ext. D	Thermal comfort C	Visual contact with the outside	Using natural daylight	Glare	Privacy at night
P-0202	9003	CF1	15.9	71.3	12.8	12.9	0.09	0.06	4	1	2	1	2
		CF2											
P-2020 (P-0808)	1015	CF1	39.9	54.2	5.9	3.7	0.06	0.04	4	2	1	2	2
		CF2											
P-0707	7038	CF1	60.3	36.9	2.8	2.1	0.05	0.04	4	2	0	3	2
		CF2											
P-0207		CF1	45.9	48.8	5.3	4.3	0.08	0.06	4	2	1	2	2
		CF2	36.2	58.5									
P-0101	7037	CF1	80.2	17.4	2.4	2.2	0.06	0.05	4	2	0	3	2
		CF2											
P-0102		CF1	53.0	44.8	2.2	2.0	0.06	0.05	4	2	0	3	2
		CF2	66.6	31.2									
P-0606 (P-1111)		CF1	90	8.6	1.4	1.3	0.06	0.05	4	2	0	3	2
		CF2											
P-0130		CF1	88.3	10.5	1.2	1.2	0.09	0.08	4	2	0	3	2
		CF2	84.8	14.0									
P-3030 (P-1010)		CF1	93	5.9	1.1	1.1	0.06	0.05	4	2	0	3	2
		CF2											

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RAL equivalent for orientation • AS: solar absorption factor in % • RS: solar reflection factor in % • TS: solar transmittance factor in % • TV: light transmittance factor in % • gtot ext. for glazing type C • gtot ext. for glazing type D • Classification of thermal and visual comfort according to NBN EN 14500 & NBN EN 14501

CF1 = Confection side 1, top side of fabric sampler • CF2 = Confection side 2, bottom side of fabric sampler

Ref.	RAL Equivalent		AS	RS	TS	TV	g_{tot} ext. C	g_{tot} ext. D	Thermal comfort C	Visual contact with the outside	Using natural daylight	Glare	Privacy at night
GVV 0101		CF1	79	21	0	0	0.03	0.02	4	0	0	4	4
GVV 0102		CF1	59	41	0	0	0.02	0.02	4	0	0	4	4
GVV 0210		CF1	48	52	0	0	0.02	0.02	4	0	0	4	4
GVV 0202		CF1	31	69	0	0	0.01	0.01	4	0	0	4	4
GVV 0707		CF1	63	37	0	0	0.02	0.02	4	0	0	4	4
GVV 2020	7038	CF1	45	55	0	0	0.02	0.02	4	0	0	4	4
GVV 3030	7021	CF1	93	7	0	0	0.03	0.03	4	0	0	4	4

Subject to mistakes and technical changes.
The colours printed here may differ slightly than the actual colours. Please refer to our fabric swatch for exact colours.

RAL equivalent for orientation • AS: solar absorption factor in % • RS: solar reflection factor in % • TS: solar transmittance factor in % • TV: light transmittance factor in % • gtot ext. for glazing type C • gtot ext. for glazing type D • Classification of thermal and visual comfort according to NBN EN 14500 & NBN EN 14501

BLACKOUT FIBRE GLASS FABRIC

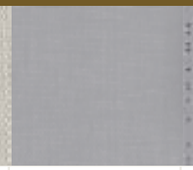
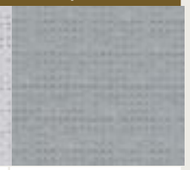
This fibre glass fabric consists of a standard fibre glass fabric with a blackout PVC coating.

Technical properties	Satiné 21154
Composition	Glass fibre (28%) with PVC (72%)
Available width	2100 mm
Fire class	NF P 92-503 (FR): M1
Lightfastness (ISO2286-3)	Grade 7/8
Thickness (ISO2286-3)	0.75 mm
Weight (ISO2286-2)	660 g/m²
Tearing strength warp (EN 1875 - 3)	7 daN
Tearing strength weft (EN 1875 - 3)	7 daN
Breaking strength warp (EN ISO 1421)	225 daN/ 5 cm
Breaking strength weft (EN ISO 1421)	190 daN/ 5cm
Opening factor	0%

POLYESTER FABRIC SOLTIS®

Screen fabrics made of coated pre-tensioned polyester fabric

This fabric is made from high tensile polyester yarn and consists of a fine mesh fabric that is PVC-coated using the Precontraint technique. This creates an extremely stable fabric that will deform very little under stress. The fabric meets the specified requirements with high fabric tension combined with low sag and is therefore naturally well suited for large areas. The fabric is used for both horizontal and vertical applications, where transparency is a must.

Technical properties	Soltis Veozip	Soltis Horizon 86	Soltis Perform 92	Soltis Opaque B92 blackout fabric	Soltis Proof W96 waterproof fabric
					
Available width	3200 mm	1770/2670 mm	1770/2670 mm	1700 mm	2670 mm
Fire class	Euroclass NF EN 13501-1 (EU): b-s2 d0 NF P 92-507 (FR): M1	Euroclass NF EN 13501-1 (EU): b-s2 d0 NF P 92-503 (FR): M1	Euroclass NF EN 13501-1 (EU): b-s2 d0 NF P 92-503 (FR): M1	Euroclass NF EN 13501-1 (EU): b-s2 d0 NF P 92-503 (FR): M2	NF P 92-503 (FR): M1
Thickness (EN ISO 2286-3)	approx. 0.90 mm	approx. 0.43 mm	approx. 0.45 mm	approx. 0.60 mm	approx. 0.56 mm
Weight (EN ISO 2286-2)	approx. 600 g/m²	approx. 380 g/m²	approx. 420 g/m²	approx. 650 g/m²	approx. 620 g/m²
Tearing strength warp (DIN 53.363)	25 daN	45 daN	45 daN	45 daN	25 daN
Tearing strength weft (DIN 53.363)	25 daN	20 daN	20 daN	25 daN	20 daN
Breaking strength warp (EN ISO 1421)	250 daN/5 cm	230 daN/5 cm	310 daN/5 cm	330 daN/5 cm	220 daN/5 cm
Breaking strength weft (EN ISO 1421)	170 daN/5 cm	160 daN/5 cm	210 daN/5 cm	220 daN/5 cm	220 daN/5 cm
Opening factor	5%	14%	3%	0%	4-5%

POLYESTER FABRIC SOLTIS® VEOZIP

A polyester fabric with a natural look and feel thanks to the use of hemp yarn. Thanks to its opening factor, the fabric offers an optimal balance between outside visibility on the one hand and glare protection on the other.

Ref.		AS	RS	TS	TV	g_{tot} ext. C	g_{tot} ext. D	Thermal comfort C	Visual contact with the outside	Using natural daylight	Glare	Privacy at night
VZ-51184	CF	32.0	59.0	9.0	8.0	0.07	0.04	4	2	1	1	2
VZ-51185	CF	41.0	50.0	9.0	8.0	0.07	0.04	4	3	1	0	1
VZ-51186	CF	57.0	37.0	6.0	6.0	0.06	0.04	4	2	1	1	2
VZ-51187	CF	56.0	37.0	7.0	7.0	0.06	0.04	4	3	1	0	1
VZ-51194	CF	88.0	7.0	5.0	5.0	0.06	0.04	4	2	1	1	2
VZ-51198	CF	90.0	5.0	5.0	5.0	0.06	0.04	4	2	1	1	2

Subject to mistakes and technical changes.
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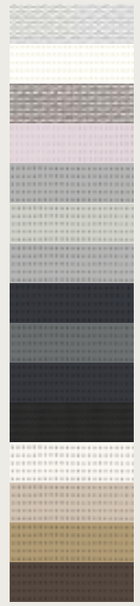
POLYESTER FABRIC SOLTIS® HORIZON 86

Ref.		AS	RS	TS	TV	g_{tot} ext. C	g_{tot} ext. D	Thermal comfort C	Visual contact with the outside	Using natural daylight	Glare	Privacy at night
S86-2051 (+)	CF1	40.0	40.0	20.0	20.0	0.17	0.12	2	3	2	0	0
	CF2	20.0	60.0	20.0	20.0	0.15	0.10	2	3	2	0	0
S86-2046 (+)	CF1	36.0	43.0	21.0	20.0	0.17	0.13	2	3	2	0	0
	CF2	22.0	57.0	21.0	20.0	0.16	0.11	2	3	2	0	0
S86-2048	CF1 CF2	42.0	39.0	19.0	19.0	0.16	0.12	2	4	2	0	0
S86-2171 (+)	CF1 CF2	42.0	39.0	19.0	17.0	0.16	0.13	2	4	2	0	0
S86-2068	CF1	49.0	35.0	16.0	15.0	0.15	0.12	2	4	2	0	0
	CF2	77.0	7.0	16.0	15.0	0.17	0.14	2	4	2	0	0
S86-2167 (+)	CF1 CF2	68.0	17.0	15.0	14.0	0.16	0.13	2	4	2	0	0
S86-2047 (+)	CF1 CF2	78.0	7.0	15.0	15.0	0.17	0.14	2	4	2	0	0
S86-51176 (NEW)	CF1	81.0	5.0	14.0	14.0	0.10	0.07	2	4	2	0	0
S86-2044 (+)	CF1 CF2	12	59	29	28	0.20	0.14	2	3	2	0	0
S86-2135 (+)	CF1 CF2	39.0	41.0	20.0	17.0	0.16	0.13	2	3	2	0	0
S86-2012 (+)	CF1 CF2	55.0	27.0	18.0	16.0	0.17	0.12	2	4	2	0	0
S86-2043 (+)	CF1 CF2	74.0	11.0	15.0	15.0	0.16	0.13	2	4	2	0	0



Subject to mistakes and technical changes.
The colours printed here may differ slightly than the actual colours. Please refer to our fabric swatch for exact colours.

POLYESTER FABRIC SOLTIS® PERFORM 92

Ref.		AS	RS	TS	TV	g_{tot} ext. C	g_{tot} ext. D	Thermal comfort C	Visual contact with the outside	Using natural daylight	Glare	Privacy at night
S92-2051 (+)	CF1	41.0	47.0	12.0	11.0	0.12	0.08	3	1	1	1	2
	CF2	21.0	67.0	12.0	11.0	0.10	0.07	3	1	1	1	2
S92-2046 (+)	CF1	43.0	48.0	9.0	8.0	0.10	0.09	3	1	1	1	2
	CF2	28.0	63.0	9.0	8.0	0.08	0.07	4	1	1	1	2
S92-2048 (+)	CF1 CF2	46.0	46.0	8.0	8.0	0.09	0.07	4	1	1	1	2
S92-50272 (+)	CF1 CF2	33.0	55.0	12.0	9.0	0.11	0.08	3	1	1	1	2
S92-2171 (+)	CF1 CF2	51.0	41.0	8.0	6.0	0.10	0.08	3	2	1	2	2
S92-2068	CF1	62	34	4	4	0.08	0.07	4	2	1	3	2
	CF2	88	8	4	4	0.10	0.09	3	2	1	3	2
S92-2074 (+)	CF1	60.0	37.0	3.0	4.0	0.07	0.07	4	2	1	3	2
	CF2	72.0	25.0	3.0	4.0	0.08	0.08	4	2	1	3	2
S92-2167 (+)	CF1 CF2	78.0	19.0	3.0	3.0	0.09	0.09	4	2	1	3	2
S92-2047 (+)	CF1 CF2	87	8	5	5	0.11	0.09	3	2	1	3	2
S92-51176 (NEW)	CF1	92.0	5.0	3.0	3.0	0.04	0.03	3	2	1	3	2
S92-2044 (+)	CF1 CF2	13.0	68.0	19.0	17.0	0.14	0.09	3	1	2	1	2
S92-2175 (+)	CF1 CF2	16	65	19	17	0.14	0.10	3	1	2	1	2
S92-50265 (+)	CF1 CF2	42	49	9	6	0.10	0.07	3	2	1	2	2
S92-2012 (+)	CF1 CF2	63	30	7	6	0.10	0.08	3	2	1	3	2
S92-2043 (+)	CF1 CF2	83	13	4	4	0.10	0.09	3	2	1	3	2
S92-2135 (+)	CF1 CF2	45	46	9	6	0.10	0.08	3	2	1	1	2

Subject to mistakes and technical changes.
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AS: solar absorption factor in % • RS: solar reflection factor in % • TS: solar transmission factor in % • TV: light transmission factor in % • gtot ext. for glazing type C • gtot ext. for glazing type D • Classification of thermal and visual comfort according to NBN EN 14500 & NBN EN 14501

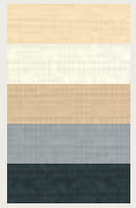
CF1 = Confection side 1, top side of fabric sampler • CF2 = Confection side 2, bottom side of fabric sampler

(+): Extra fabric width of 2670 mm for a selection of colours.

POLYESTER FABRIC SOLTIS® PROOF W96

This polyester fabric is woven using the Précontraint technique and a waterproof, translucent coating has been applied to it.

Ref.		AS	RS	TS	TV	g_{tot} ext. C	g_{tot} ext. D	Thermal comfort C	Visual contact with the outside	Using natural daylight	Glare	Privacy at night
W96-1103	CF1 CF2	16	67	17	16	0.13	0.09	3	0	2	2	4
W96-8102	CF1 CF2	12	71	17	17	0.12	0.08	3	0	2	2	4
W96-8861	CF1 CF2	24	63	13	9	0.11	0.08	3	0	1	2	4
W96-2171	CF1 CF2	39	52	9	4	0.09	0.07	4	0	1	2	4
W96-2047	CF1 CF2	86	11	3	3	0.1	0.08	4	0	1	3	4



Subject to mistakes and technical changes.
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CF1 = Confection side 1, top side of fabric sampler • CF2 = Confection side 2, bottom side of fabric sampler

BLACKOUT POLYESTER FABRIC SOLTIS® OPAQUE B92

A blackout fabric sun protection is the ideal solution for bedrooms, whether installed inside or outside.

Ref.		AS	RS	TS	TV	g_{tot} ext. C	g_{tot} ext. D	Thermal comfort C	Visual contact with the outside	Using natural daylight	Glare	Privacy at night
B92-2135	CF1	53	47	0	0	0.05	0.04	4	0	0	4	4
B92-2171	CF1	55	45	0	0	0.05	0.05	4	0	0	4	4
B92-1043	CF1	87	13	0	0	0.08	0.07	4	0	0	4	4
B92-1044	CF1	30	70	0	0	0.03	0.02	4	0	0	4	4
B92-1045	CF1	62	38	0	0	0.05	0.05	4	0	0	4	4
B92-1046	CF1	51	49	0	0	0.05	0.04	4	0	0	4	4
B92-51176 (NEW)	CF1	94	6	0	0	0.02	0.02	4	0	0	4	4

Subject to mistakes and technical changes.
The colours printed here may differ slightly than the actual colours. Please refer to our fabric swatch for exact colours.

AS: solar absorption factor in % • RS: solar reflection factor in % • TS: solar transmission factor in % • TV: light transmission factor in % • gtot ext. for glazing type C • gtot ext. for glazing type D • Classification of thermal and visual comfort according to NBN EN 14500 & NBN EN 14501

CF1 = Confection side 1, top side of fabric sampler • CF2 = Confection side 2, bottom side of fabric sampler

TUFFSCREEN

Insect fabric

For products with Fixscreen-technology, it is possible (and useful) to use an insect mesh.
Thus the screen in the lowered position can prevent the entry of insects and other vermin.

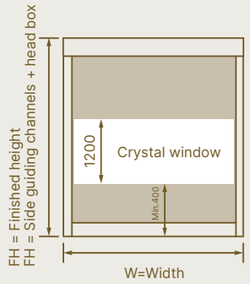
Technical properties	Tuffscreen
	
Composition	Polyester fabric (Polyester 28% - PVC 72%)
Weight	240 g/m²
Mesh	17×13
Wire thickness	0.67 mm
Maintenance	Water with mild soap
Confection	HF welding (always with grey welding strip)
Hardness	High wind, moderate gale, near gale
Available min. width	3050 mm
Available colours	Black
Restrictions in fabric dimensions	No

CRYSTAL FABRIC

Transparent fabric

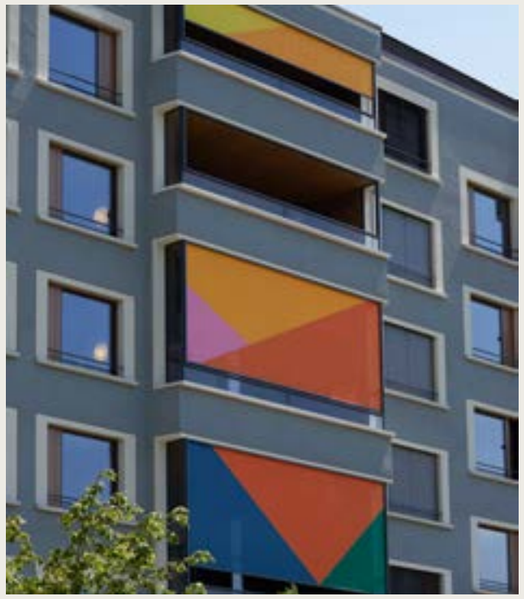
A transparent crystal fabric can be integrated into the fibre glass fabric of Fixscreen 100 Slim F and Fixscreen 150 F to maintain the best possible view of the outside.

The crystal window in the full width of the screen is 1200 mm high. There must be a distance of 400 mm between the crystal window in the full width and the bottom.



CUSTOM PRINT

Aside from our standard range, fabrics can also be customised. Options include printing your business logo or a photo onto a screen underneath a patio cover.

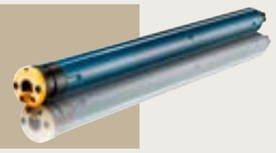


CONTROL

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.

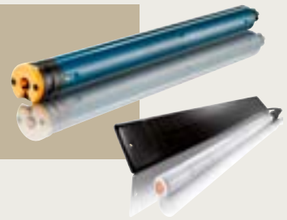
Mechanical Somfy Motor
The standard tubular motor for every application. Final adjustment is done thanks to a universal setting cable or directly on the motor head. Corded motors can be combined perfectly with a switch or home automation system.

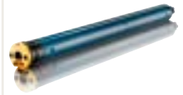
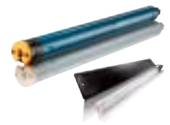


Detecto Renson motor Safety First
With a Detecto Renson motor Safety First, the obstacle detection not only ensures optimum protection for the fabric sun protection but also provides continuous fabric tensioning. The motor also distinguishes between an obstacle and a gust of wind and automatically adjusts 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.

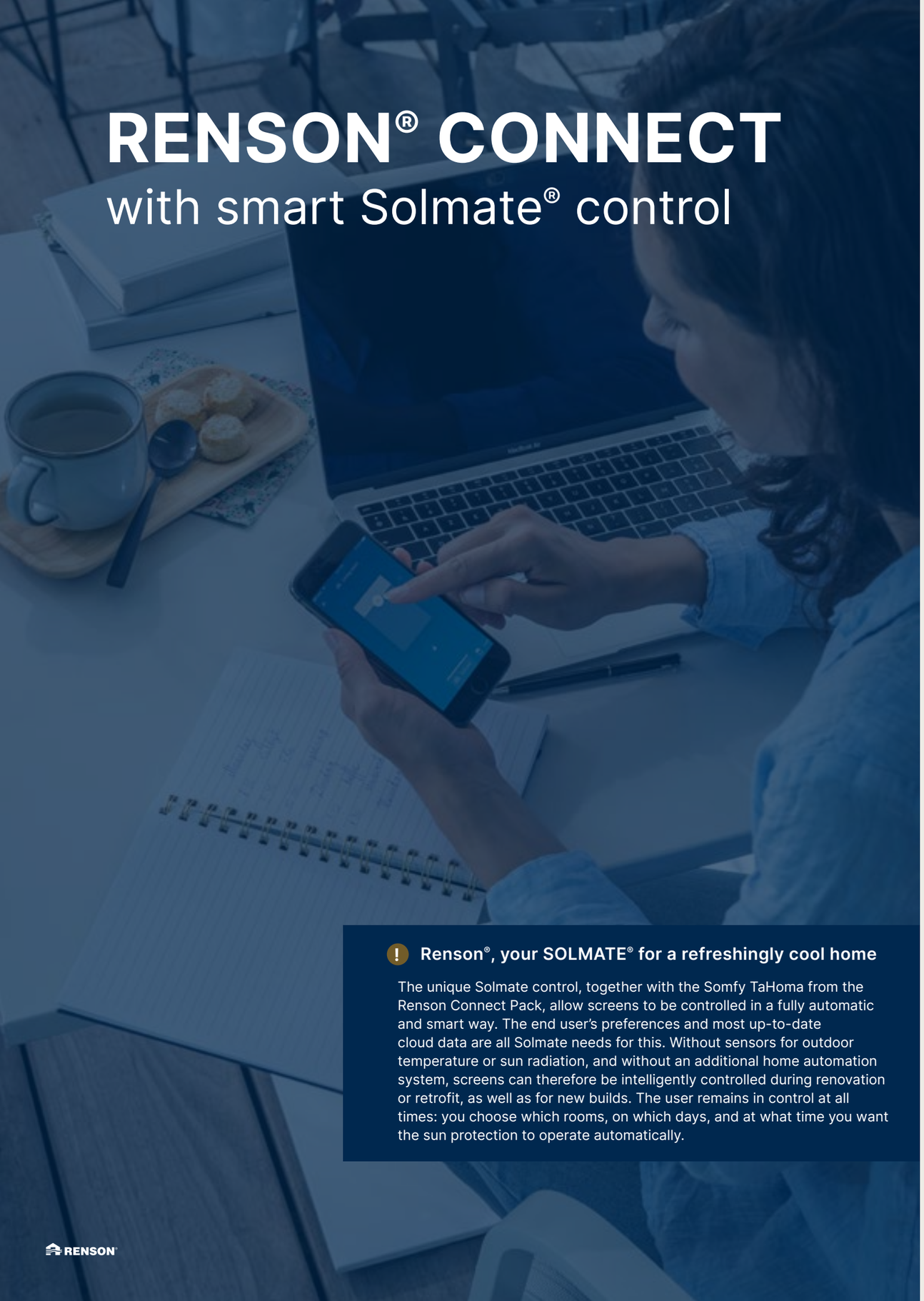
Radio-controlled Somfy Solar motor
The Solar motor is a radio-controlled IO motor where the battery recharges itself thanks to the durable solar panel. This motor offers all the advantages of radio-controlled motors, i.e. wireless end limit settings and control.



	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



! 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.

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

RENSON CONNECT

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.

! Availability depending on geographical location !

GET IT ON Google Play
Download on the App Store
RENSON

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	-		-		-		Smoove origin IO / Smoove 1 IO	Smoove 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)	Smoove Uno (fixed)	-	Smoove Duo (fixed)
	Wall-mounted remote control with auto-matic zero point (stops when stop is pressed)	Inis surface-mounted (auto)	Smoove Uno (auto)	-	Smoove 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

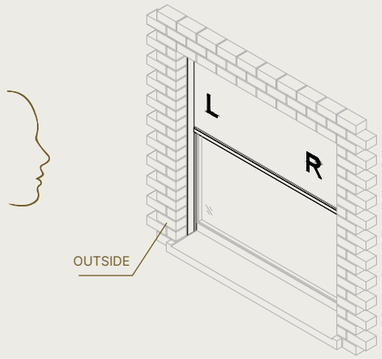
GENERAL

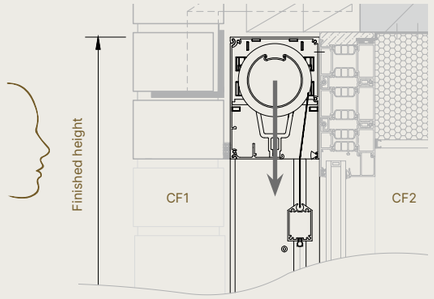
POSITION CABLE FEED AND CONFECTION SIDE

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.

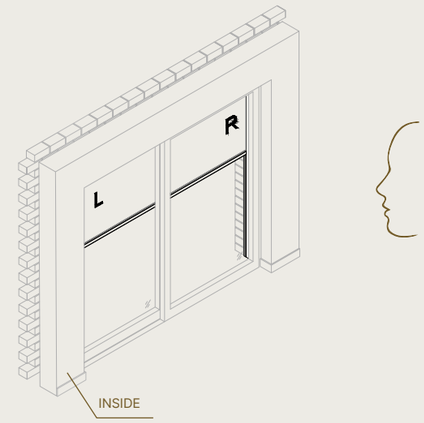
All fabrics have two sides. A small difference can be noticed in the weave of woven fabrics Confection side 1 (CF1) is the top side of the fabric sample in the Renson fabric sampler. This is how the screen fabric appears from the outside. Confection side 2 (CF2) is the bottom side of the fabric sample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

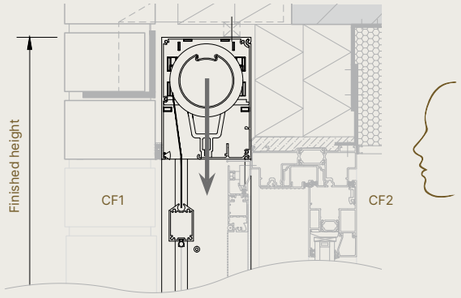
Fixscreen® IM 1 (+) (Solar), IM 7A
Fixscreen ® Minimal IM 1 (Solar), IM 7A/B, Curtain Wall 50
Panovista® (Max)





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





HOW DO I MEASURE A SCREEN?

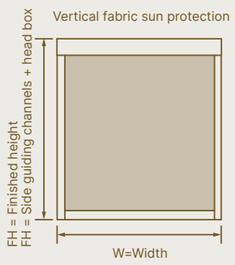
To calculate the price of a screen and place a correct order for a screen, it is extremely important that the dimensions of the screen are correctly measured and entered. Further clarification on the dimensions of the different solutions is provided below.

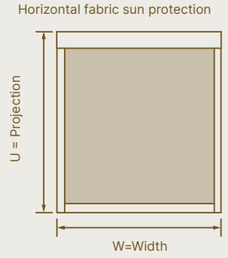
Single screen for

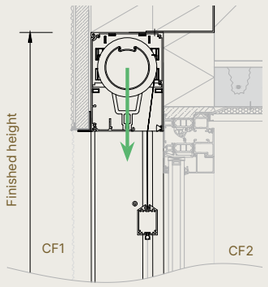
- Fixscreen IM 1 (Solar) (F), IM 4 & IM 7 (F)
- Fixscreen Minimal IM 1 (Solar) (F)
- Fixscreen/Fixvent Mono AK/UT
- Topfix (VMS)
- Topfix Max (F)
- Vegascreen

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.





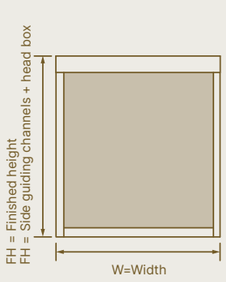


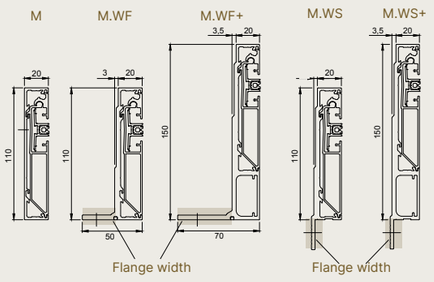
Single screen for

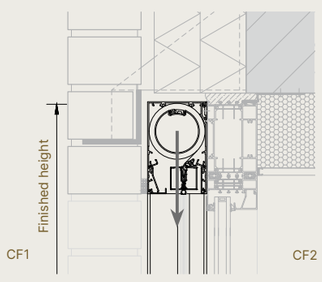
- Fixscreen Minimal IM 7 (F)
- Fixscreen Minimal IM 7 with C.F: See connected screens

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





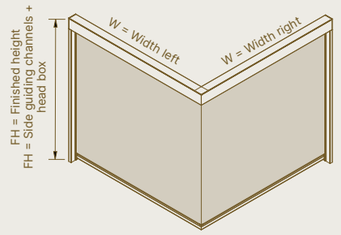


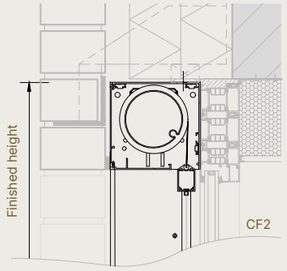
Panovista®(Max)

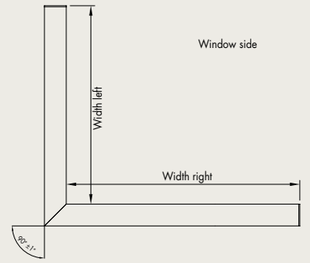
Single screen for:
- Panovista (Max)

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





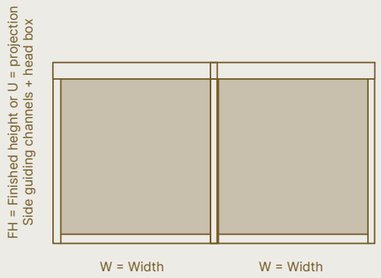


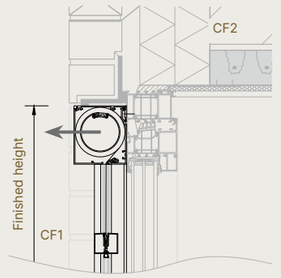
Coupled or linked screen for

- 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.





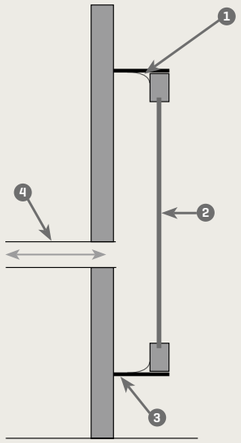
STANDARD EN13561

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 (≥ 10 000 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 aerials 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

* See our user manual for more information.

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 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

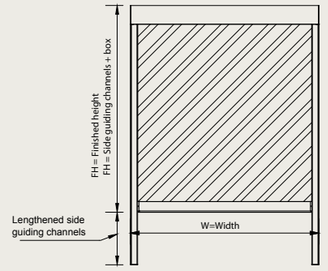
For horizontal sun protection, the inclination angle is requested to determine which type of fabric can be used and which dimensions can be realized, in order to offer the best technical solution, for instance to prevent water sagging and/or wrinkling.

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.

WANT TO JOIN OUR RENSON AMBASSADOR FAMILY? GET IN TOUCH WITH YOUR RENSON CONTACT.

SOUDAL QUICK-STEP PRO CYCLING TEAM
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