

SUN SCREENS FOR CURTAIN WALLS

Type Fixscreen 150 Curtain Wall 60
& Fixscreen Minimal Curtain Wall 50



Fixscreen® 150 Curtain wall 60



WHY DO YOU NEED SUN PROTECTION?

Sufficient daylight contributes to comfortable living and working, and a general feeling of well-being. And so the choice for larger windows seems logical. But know that without sun protection the risk of overheating is just around the corner.

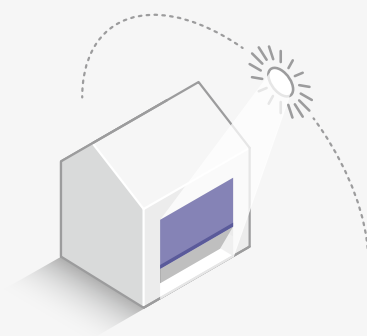
“External solar shading is the most efficient way to enjoy pleasant indoor temperatures in summer and winter”

CUSTOMISED COMFORT IN EVERY SEASON

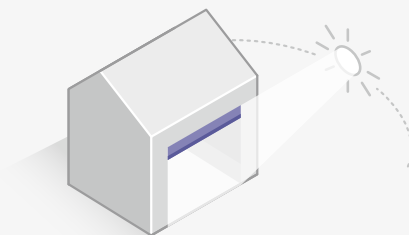
New building projects are increasingly becoming better insulated, with airtight finishing. Although this will reduce your energy bill, it will soon become unbearably hot indoors when the sun shines on large windows. And once you have heat indoors, it is very difficult to expel it from a well-insulated house.

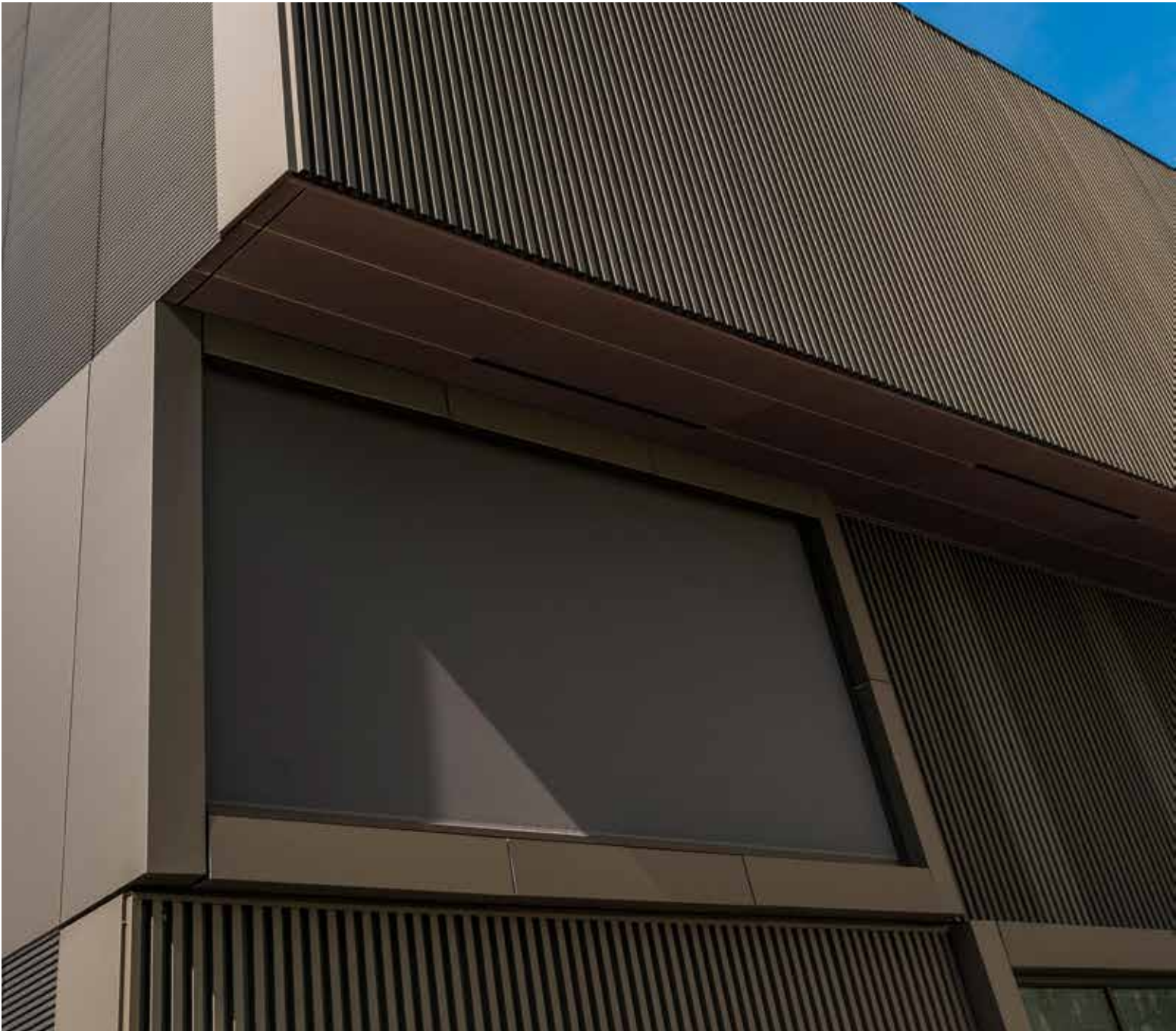
This makes it vitally important to ‘control’ sunlight so that you can enjoy it to the fullest. For example, you could raise the external sun protection during the winter. Because then you do benefit from bringing in as much solar heat as possible to help warm up the interior. In the summer it is a must to let the screens down to keep the inside temperature under control. This also prevents annoying reflections, without disturbing the view of the outside.

SUMMER



WINTER

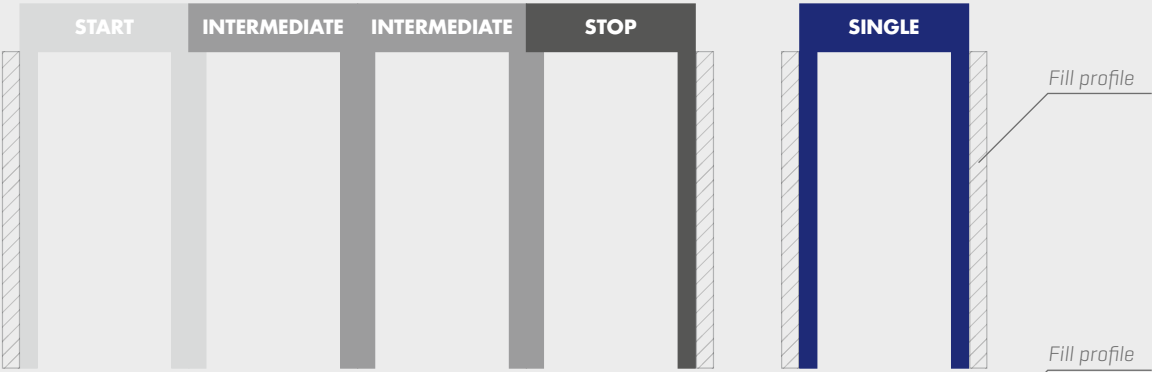




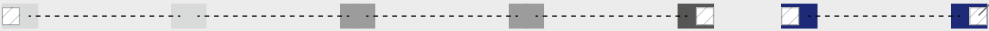
How do you mount screens to a curtain wall?

For curtain walls, you can install a single screen, or a series of screens over the entire glass façade. If you opt to install a series of screens, you will first have to place a start screen. This consists of two coupling side guiding channels, the outer one of which will contain a fill profile that will replace the zip channel to ensure an aesthetically pleasing finish. This will be followed by the intermediate screens that you require. The last screen will be a stop screen. This will also have a fill profile at the end.

Conceptual view



Conceptual cross-section of side guiding channels



CURTAIN WALLS AND SUN SCREENS

Curtain wall façades are becoming increasingly more common in contemporary architecture, and are not only found in commercial buildings but in residential buildings as well. However, the existence of such large glass panes should also not reduce the level of comfort in the interior of the house. Thus although adequate daylight offers many advantages, external solar shading is also required to control the internal temperature in the house.

Renson® has created **two unique product ranges** to help integrate this sun screen nicely: It is now possible to centrally install the coupling side guiding channels, thereby enabling the easy installation of the sun screens on the curtain wall transoms itself. This design also takes due account of thermal expansion, and consequently it is easily possible for you to connect an infinite number of screens to each other.

Fixscreen 150 curtain wall 60

The smart, stylish design, the unprecedented wind resistance and the wide range of sun screens available make the Fixscreen a unique technological masterstroke for the comfort, ease of use and aesthetics that it offers. The unique Fixscreen technology always ensures that the screen is tautly tensioned. Apart from the wide range of installation methods, we now also offer a unique solution for curtain walls in new buildings as well as renovation projects. The Fixscreen 150 Curtain wall 60 integrates perfectly with the curtain wall design and enables coverage of large areas of up to 22 m². The coupling side guiding channel has no visible screws, and offers a viewing latitude of 60 mm, thereby contributing to a clean and uniform line of sight.



Fixscreen Minimal curtain wall 50

Renson® is a pioneer in windproof sun screens against winds of up to 130 km/h, and its new product, namely the Fixscreen Minimal, raises the bar even higher. The focus this time as well is ensuring the minimum possible impacts on building design – whether it is curtain walling, new construction, or renovation projects.

Every element and minute detail of the Fixscreen sun screen has been carefully scrutinised: the box, side guiding channels, fabric roller tube, dimensions, screen tension, etc. After all, minimising dimensions is crucially important to minimising the impact on the architecture. The Fixscreen Minimal fulfils this requirement with side guiding channels with practically invisible screws, and offers a viewing latitude of 50 mm for curtain walls. The absolute minimum.



FIXSCREEN® 150 CURTAIN WALL 60

SUITABLE FOR LARGE GLASS SURFACES

Surface areas up to 22 m²

DURABLE ZIP GUIDE WITH SMOOTH-TECHNOLOGY

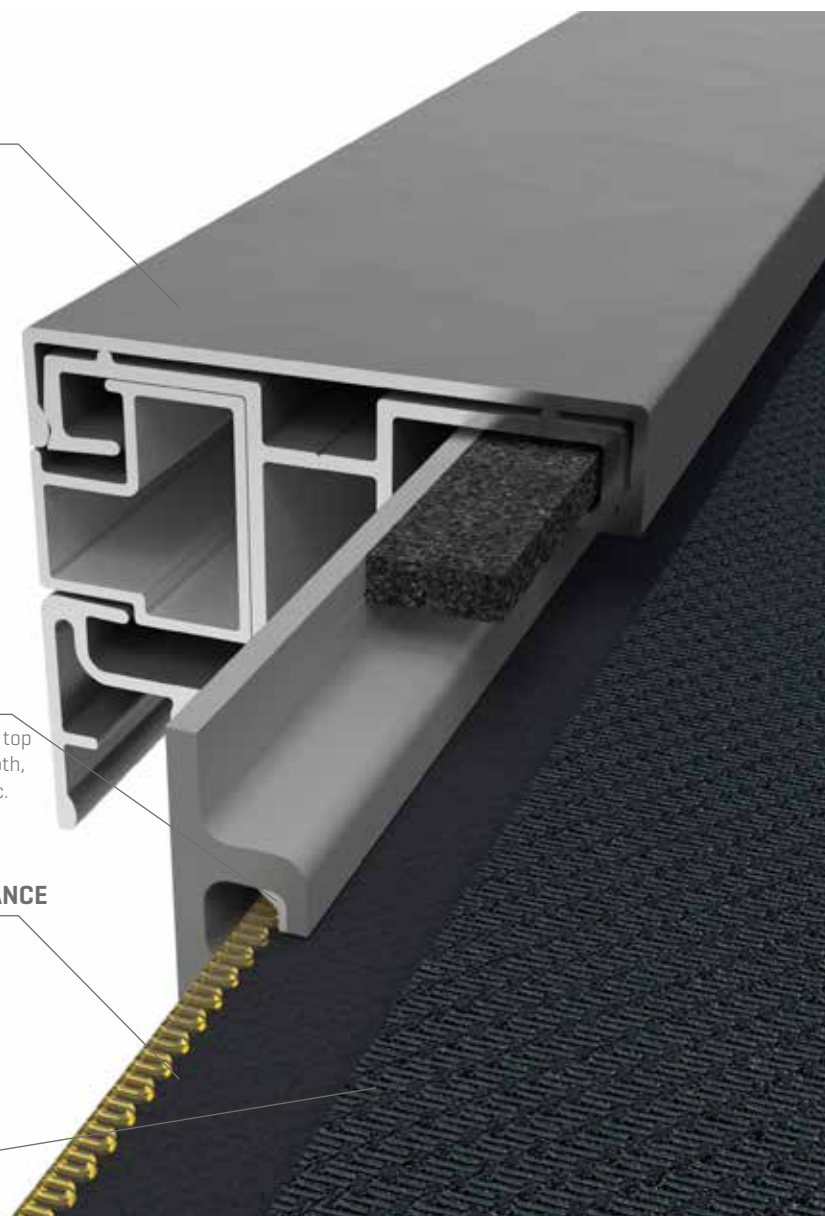
The patented, co-extruded, wear-resistant top layer in our HPVC zip guide ensures a smooth, durable and soundless guiding of the fabric.

FIXSCREEN-TECHNOLOGY GUARANTEES HIGH WIND RESISTANCE

High wind guarantee up to 130 km/h, due to the use of symmetrical zips.

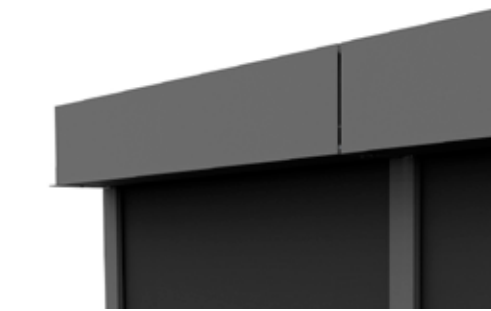
WIDE-RANGING ASSORTMENT OF SCREENS AND RAL COLOURS

Perfectly in line with the architecture



The box

The box profile in Square design is made of tight extruded aluminium profiles. The box size is 150 mm [H] x 155 mm [D]. The side consoles are designed to allow thermal expansion during coupling. The box is fixed in place with an L-profile as standard.



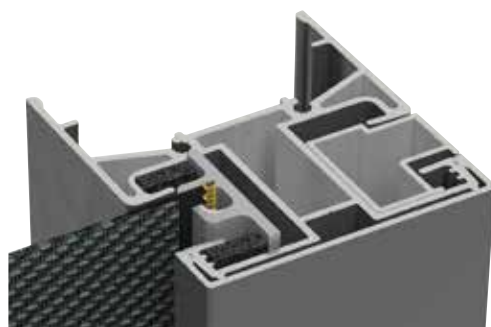
The motor

The motor, equipped with the Connect&Go technology, can be installed on the left or on the right side. A variety of choices is available: IO, RTS, mechanical and electronic. The Detecto motor is equipped with an additional stop, mounted within the side guiding channel.



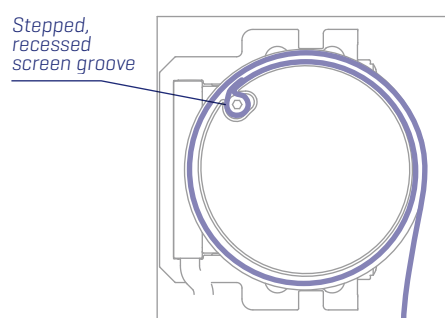
The side guiding channel

The two-piece, extruded aluminium coupling side guiding channel C.60 has a width of 60 mm and a depth of 67 mm. It is mounted on 60 mm wide curtain wall profiles, and is screwed onto the curtain wall. A 60 mm wide and 55 mm deep coupling side guiding channel C.60 can be used in the case of renovation projects. A mounting block allows the side guiding channel to be screwed onto the curtain wall [see page 13].



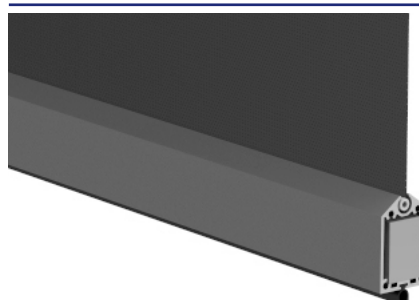
The fabric roller tube

The fabric roller tube has a stepped, recessed screen groove to prevent the screen from being pushed in and to also minimise the formation of horizontal lines on the screen.



The bottom bar

The aluminium bottom bar is solidly weighted with galvanised steel to achieve optimum screen tension on the window sill. For perfect sealing, the bottom bar is equipped with a plastic sealing strip. The bottom bar is not retractable.



FIXSCREEN® 150 CURTAIN WALL 60

Installation method 7A (MS 7A): recessed, in front of the window, with fully finished box

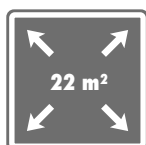


Coupling side guiding channel C.60



Coupling side guiding channel C.60 for Renovation projects

- For curtain wall profiles of 60 mm width
- Suitable for large dimensions
- Invisible integration
- Screen roller removable from the bottom



TECHNICAL DETAILS

Design		
Box size (HxD)		150 mm x 155 mm
Square		✓
Softline		-
Retractable bottom bar		-
Stepped, recessed fabric roller tube		✓
Wind resistance		
Wind class EN13561:2004		3
Guaranteed wind resistance		Up to 130 km/h when closed
Application		
New buildings		✓
Renovation		✓
Residential		✓
Non-residential		✓
Operation		
Motorised	Detecto Rensonmotor Safety First	✓
	Somfy mechanical motor	✓
	Somfy, RTS radio-controlled motor	✓
	Somfy, IO radio-controlled motor	✓

Note:

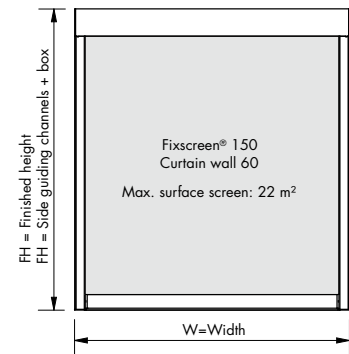
- Mounting recommended with a minimum of two people. Weight: ± 23 kg/lm.
- A fill profile is mounted on the outside of the start and stop screen as standard. Optional for other channels.
- Side guiding channels are supplied equipped with a 0° base plate as standard.
- Extended side guiding channels can be used in case the curtain wall also has a door opening.

DIMENSIONS

Motorised operation	Applicable screens	Dimensions		
Single screen	Fibreglass screen Polyester screen Soltis Horizon 86 / Soltis Perform 92	Min. width	909 mm	
		Max. width	6000 mm	
		Min. height	300 mm	
		Max. height	6000 mm	
		Max. surface area	22 m²	
	Blackout fibreglass screens Satiné 21154 Blackout polyester screens Soltis Opaque B92	Min. width	1000 mm	
		Max. width	6000 mm	
		Min. height	300 mm	
		Max. height	4000 mm	
		Max. surface area	16 m²	
	Acrylic screen Elements	Min. width	1000 mm	
		Max. width	6000 mm	
		Min. height	300 mm	
		Max. height	6000 mm	
		Max. surface area	22 m²	
	PVC-free polyester screen Vuscreen Bergamo	Min. width	1000 mm	
		Min. height	300 mm	
		Max. width	4500 mm	2250 mm
		Max. height	2250 mm	6000 mm
		Max. surface area	10,1 m²	13,5 m²

Note:

- Screens are always motorised
- To enable the interconnection of an infinite number of screens, the design takes into account screen expansion and shrinkage.

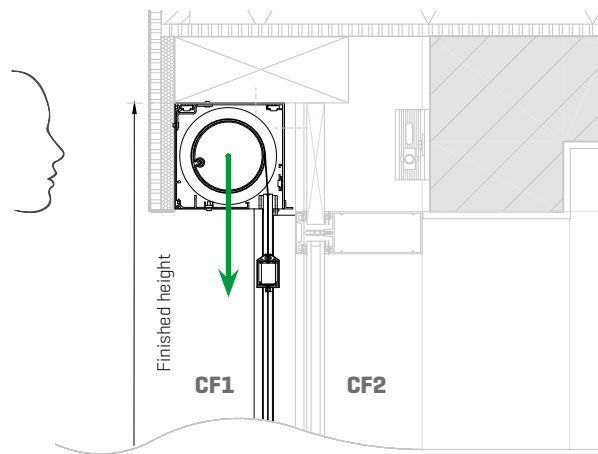


DURABILITY

Technology	
Fixscreen technology	✓
Smooth technology	✓
Connect&Go-technology	✓
Certificates	
Declaration of Performance (DoP)	DOP-2015SC00002
Wind tunnel test report	N°113-25809
Durability test report	WTCB N°651 XE823 CAR4139
Warranty	
10-year warranty on the powder coating of the aluminium elements	✓
7-year warranty on Fixscreen technology	✓
5-year product warranty	✓
5-year warranty on the screen collection	✓
5-year warranty on the electronic operating system (motor & automation)	✓
5-year warranty on the gloss level	✓

TECHNICAL DRAWINGS WITH COUPLING SIDE GUIDING CHANNEL C.60 – MOUNTING DIRECTLY ON TERMINAL STRIP

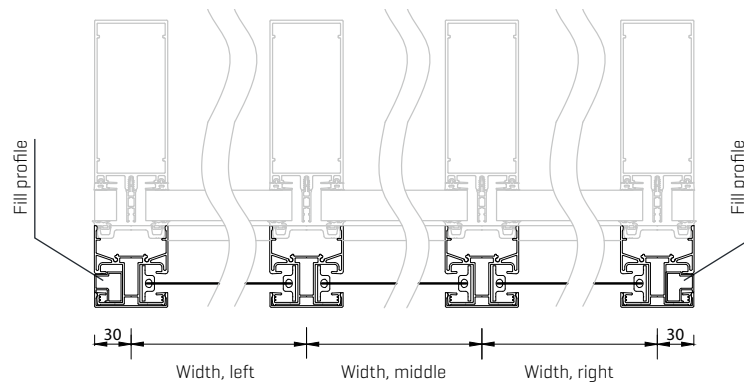
Vertical cross-section



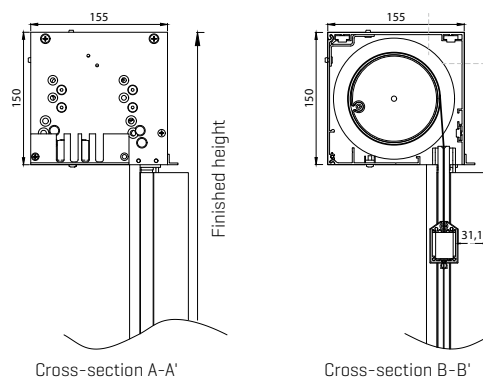
Viewing direction determines selection option cable feed left or right

Direction in which fabric roller should be demounted

Horizontal cross-section

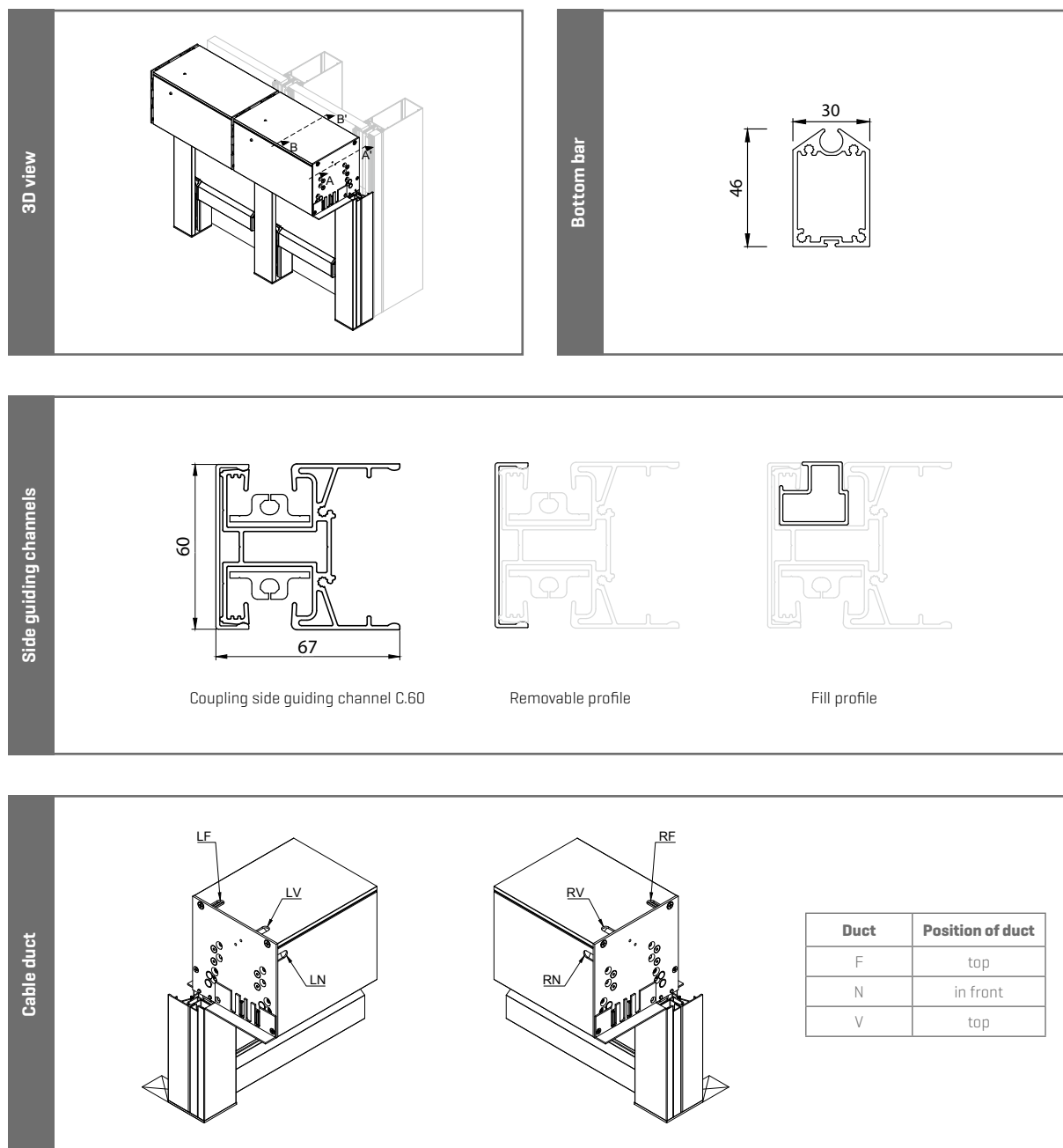


Box

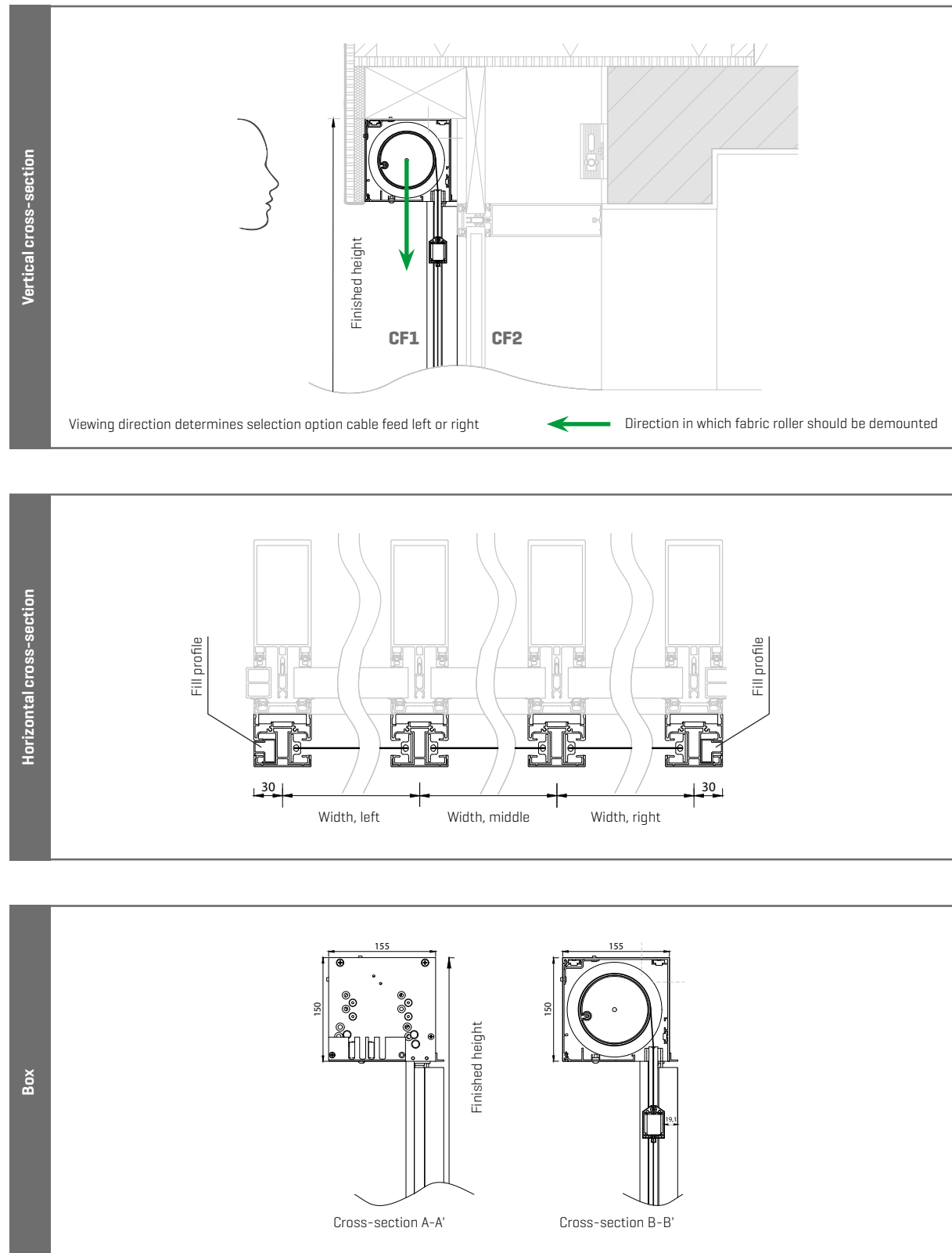


Note outline drawing: Subject to prior coordination with Renson® and the manufacturer.

TECHNICAL DRAWINGS WITH COUPLING SIDE GUIDING CHANNEL C.60 – MOUNTING DIRECT- LY ON TERMINAL STRIP

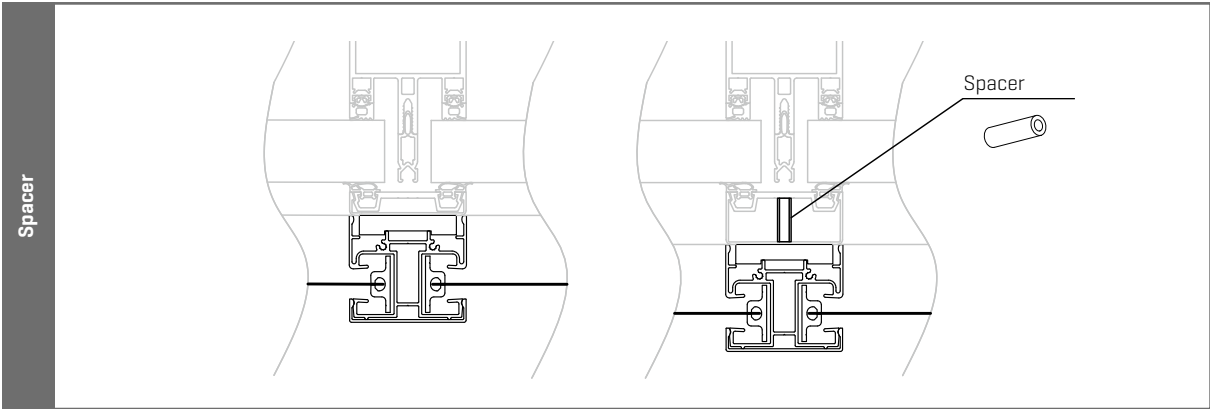
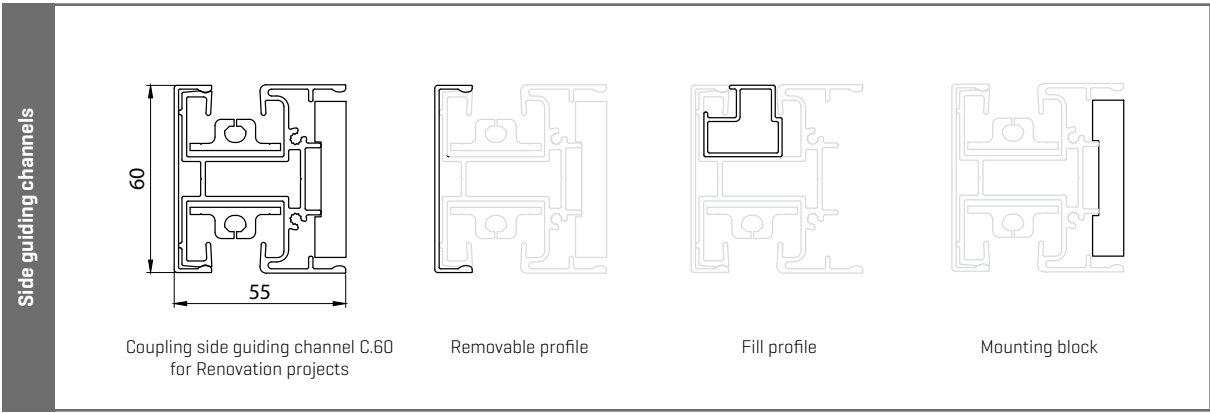
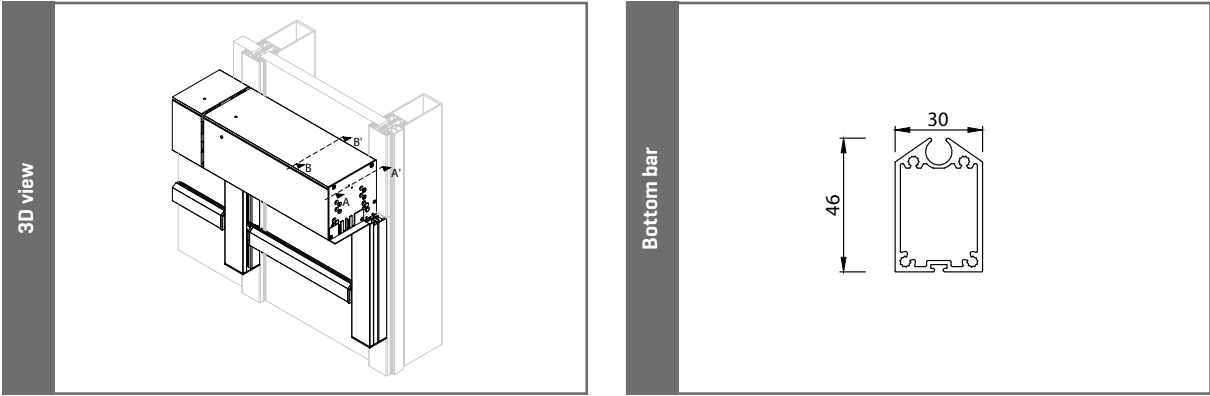


TECHNICAL DRAWINGS WITH COUPLING SIDE GUIDING CHANNEL C.60 RENOVATION – MOUNTING BY MEANS OF MOUNTING BLOCK*

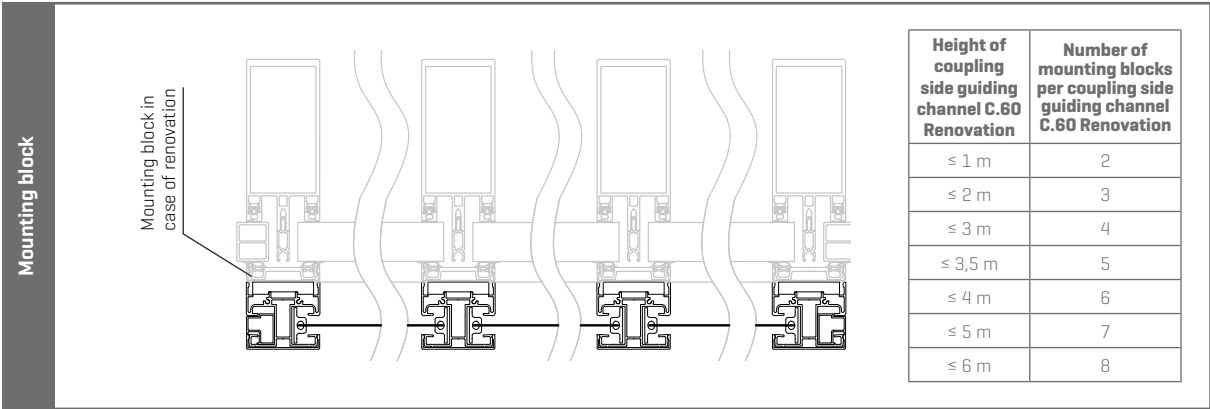


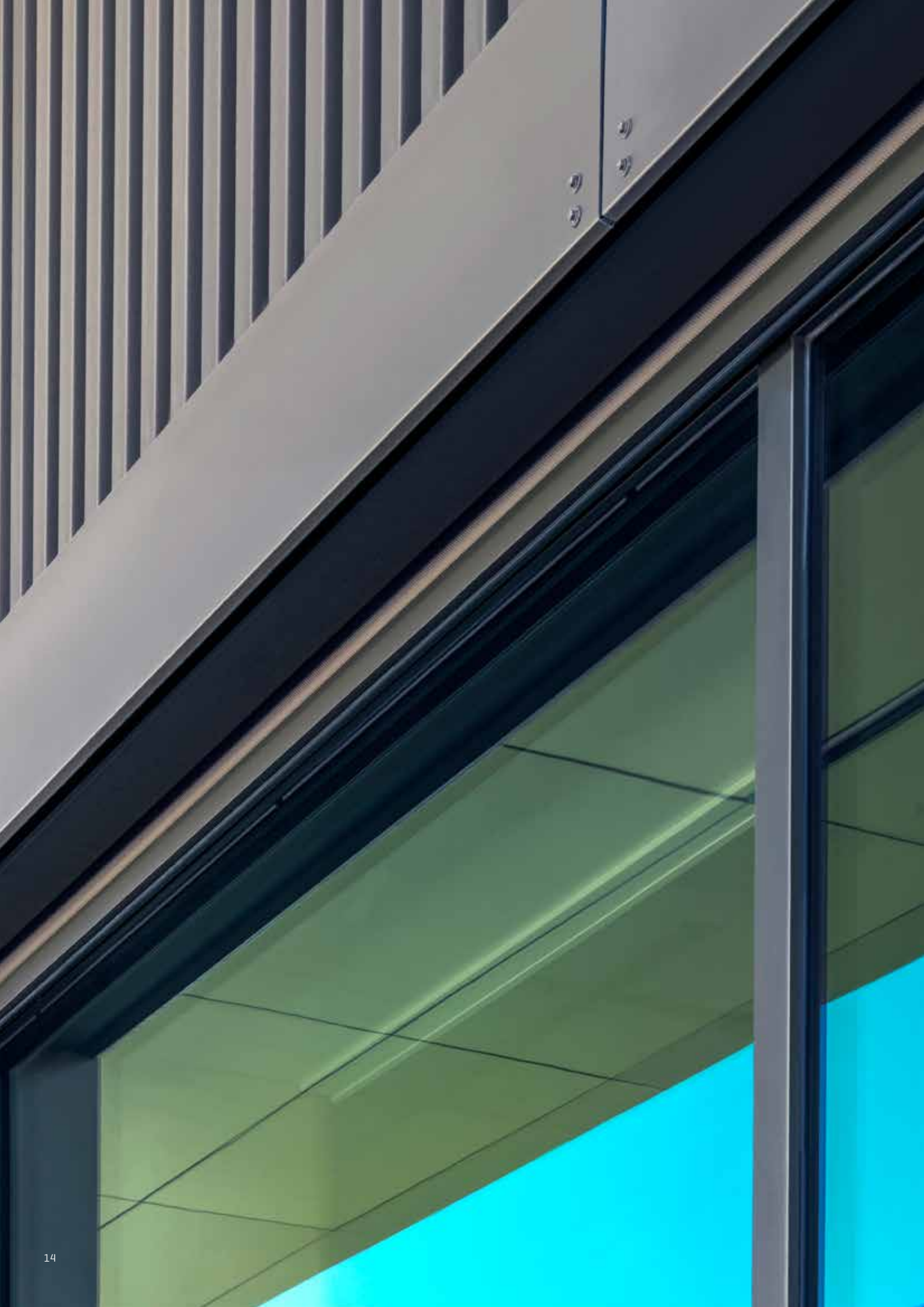
* Applicable in innovation projects for mounting coupling side guiding channel C.60 Renovation directly on cover

TECHNICAL DRAWINGS WITH COUPLING SIDE GUIDING CHANNEL C.60 RENOVATI- ON – MOUNTING BY MEANS OF MOUNTING BLOCK*

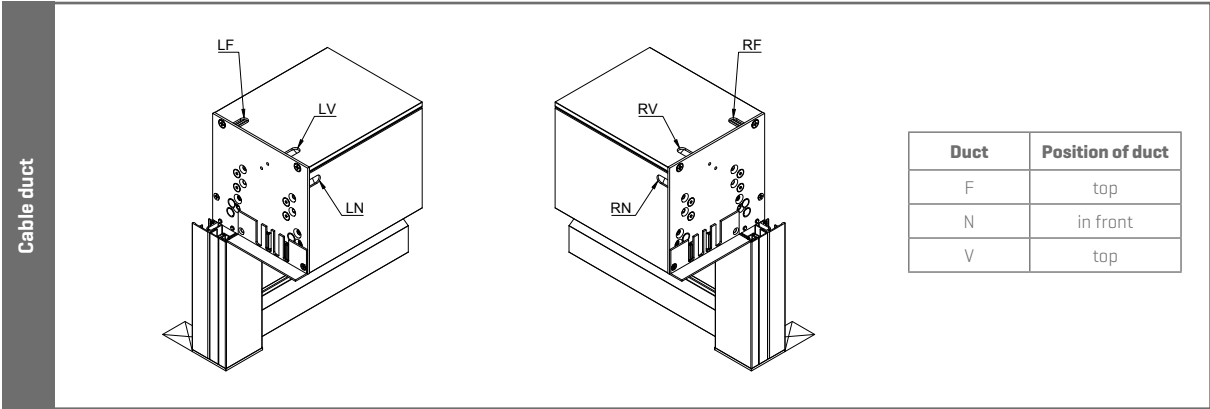


Note: spacer can be provided according to the type of cover profile



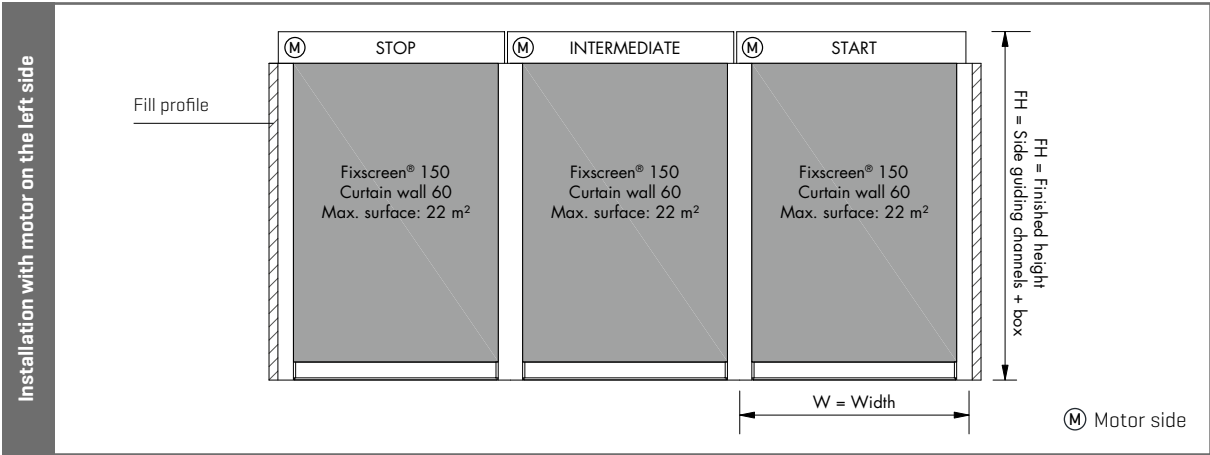
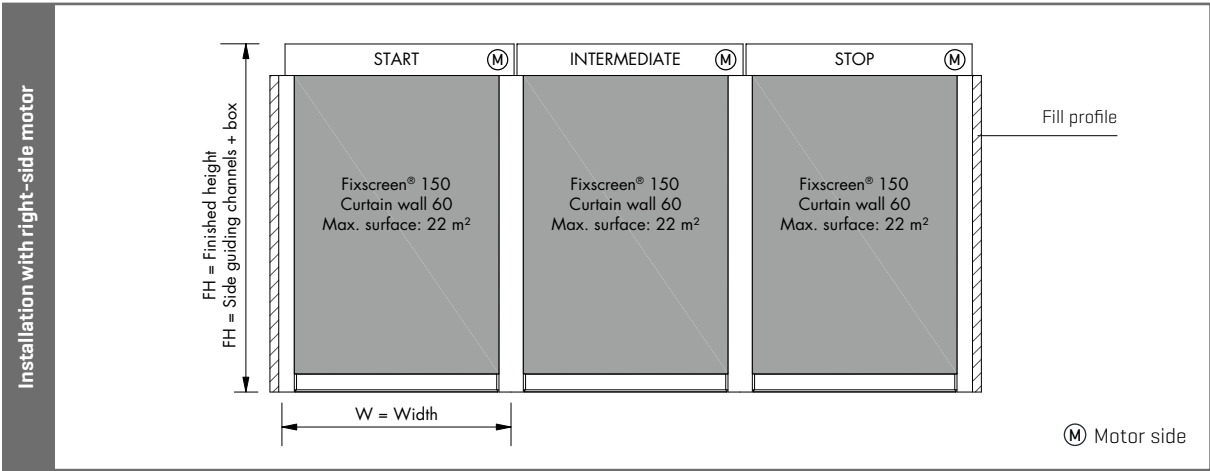


TECHNICAL DRAWINGS WITH COUPLING SIDE GUIDING CHANNEL C.60 RENOVATI- ON – MOUNTING BY MEANS OF MOUNTING BLOCK*



* Applicable in innovation projects for mounting coupling side guiding channel C.60 Renovation directly on cover

TECHNICAL DRAWINGS



FIXSCREEN® MINIMAL CURTAIN WALL 50

Coupling side guiding channel of
just 50 mm wide



A technical diagram of a curtain wall section. A horizontal line points from the text 'Coupling side guiding channel of just 50 mm wide' to a narrow vertical channel in the side profile of the curtain wall. The channel is shown in a cross-section view, revealing its internal structure and how it fits into the overall assembly.

High-end design, screwless,
with a lacquered aluminium zip
channel and 0° base plate



A technical diagram of a curtain wall section. A horizontal line points from the text 'High-end design, screwless, with a lacquered aluminium zip channel and 0° base plate' to the base of the curtain wall. The diagram shows the base plate and the zip channel in a cross-section view, highlighting the high-end design and the absence of screws.



Screen box equipped
with thermal expansion

Wide range of RAL and screen colours

Smaller, fully retractable bottom bar
with invisible welding seam

FIXSCREEN® MINIMAL CURTAIN WALL 50

MINIMAL IMPACT ON THE ARCHITECTURE

The box design for the Fixscreen Minimal curtain wall variant ensures that it can easily be installed discreetly concealed or placed so as to be visible. The discreet design of the side guiding channel and bottom bar ensures a minimal impact on the architecture. The **coupling side guiding channel C.50** has a frontal width of 50 mm, which perfectly matches the wide range of available curtain wall profiles of 50 mm. The redesigned **bottom bar** is now fully retractable and has a maximum height of just 35 mm.

Fixscreen Minimal

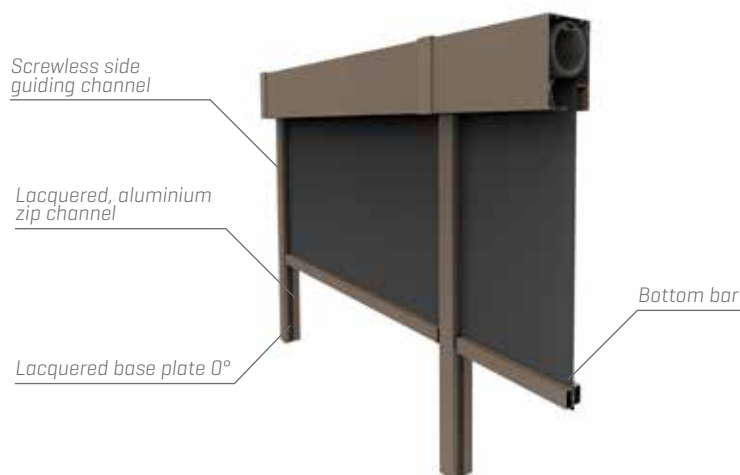


MINIMALIST DESIGN WITH AN EYE FOR DETAIL

Every minor detail of the Fixscreen Minimal has been designed with the greatest of care. For example, no screws are visible anywhere, since the **side guiding channel** elements snap seamlessly into each other.

Renson® has gone a step further and even integrated a **lacquered aluminium zip channel** into this side guiding channel design. The bottom of the side guiding channel is finished with a 0° **base plate**. To ensure uniform appearance, the zip channel and the side guiding channel are all in the same colour. For start and stop screens, a **fill profile** in the side guiding channel provides an aesthetically pleasing finish.

The welding seams in the **bottom bar** – a uniform feature of the entire Fixscreen Minimal screen sun protection range – are also invisible, concealed within a newly designed recessed detail. The result is a beautiful, aesthetically pleasing whole.

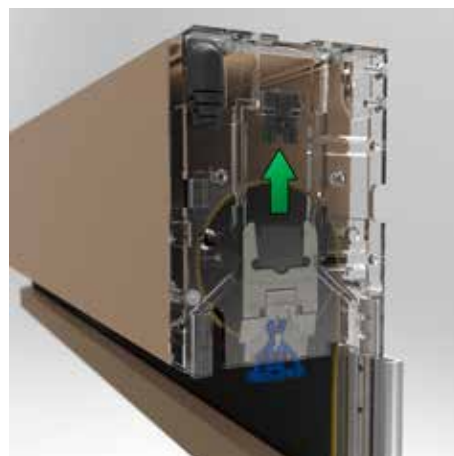


HIGH-END TECHNOLOGY

The **Connect&Go** is a patented, splash-proof electrical connector in the screen box. This unique innovation enables the screen roller, the motor and the screen to be assembled and disassembled quickly, easily and safely. This well-renowned technology has been totally reworked and redesigned into a more robust whole. The fabric roller tube has been redesigned for screwless snap-fitting into the box. Apart from being aesthetically pleasing, the aluminium zip channel maintains perfect screen tension, and also increases the durability of the entire assembly. The unique, tried and tested **Smooth technology** formula has also been integrated into this zip channel. With Smooth technology, the zip glides noiselessly into the channel and at the same time guarantees its high wind resistance, even in the long term.

The **screen tension** is achieved through a unique manner in which the screen is integrated into the Fixscreen Minimal. The distribution of tension over the entire screen is jointly ensured by the weighted bottom bar and the aluminium zip channels. The screen within the box itself passes smoothly over a screen guide profile. This ensures the controlled upward and downward movement of the screen – regardless of the amount of screen on the fabric roller tube.

It is the combined effect of these unique innovative technical features that ensures an extremely high wind guarantee, in the closed position, against winds of up to 130 km/h in the case of freestanding screens.



EASE OF INSTALLATION COMES FIRST

Ease of installation has been a primary design objective for this new product range. The side guiding channels are first installed, on which the box assembly is then mounted – a simple and fast construction kit.

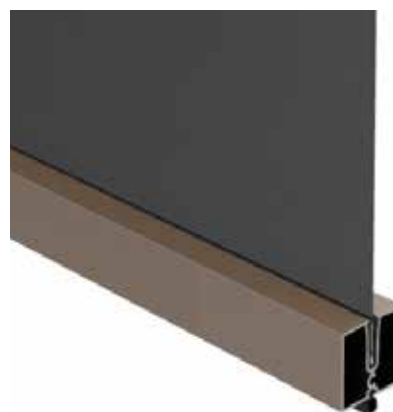
To further facilitate assembly, a separate **mounting pin** has been provided to connect the box and the side guiding channel.

Consequently, it is now very easy to detach the **bottom bar** from the screen. This reduces the weight, which in turn enables faster assembly and dismantling. The fabric roller tube is also equipped with a new, detachable snap (click) profile that minimises the horizontal line formation in the screen, and also enables you to quickly snap the screen out of the **fabric roller tube**.

The installation of the entire screen box as a simple and fast construction kit

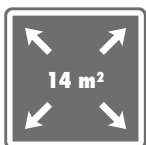


The bottom bar simply snaps loose from the screen



FIXSCREEN® MINIMAL CURTAIN WALL 50

Installation method 7A (MS 7A): Surface-mounted or recessed, in front of the window, with fully finished box



TECHNICAL DETAILS

Design	
Box size (HxD)	Medium 160 mm x 110 mm
Square	✓
Retractable bottom bar	✓
Wind resistance	
Wind class EN13561:2004	3
Guaranteed wind resistance	Up to 130 km/h when closed
Operation	
Detecto Renson Motor Safety First	✓
Somfy IO motor	✓

DURABILITY

Technology	
Fixscreen technology	✓
Smooth technology	✓
Renewed Connect&Go technology	✓
Certificates	
Declaration of Performance (DoP)	DOP-2015SC00006
Warranty	
10-year warranty on the powder coating of the aluminium elements	✓
7-year warranty on Fixscreen technology	✓
5-year product warranty	✓
5-year warranty on the screen collection	✓
5-year warranty on the electronic operating system (motor & automation)	✓
5-year warranty on the gloss level	✓

DIMENSIONS

Single screen dimensions		
Fibreglass screen Sergé / Natté / Privacy	Min. width Somfy IO	900 mm
	Min. width Detecto	670 mm
	Max. width	3600 mm
	Max. height	4000 mm
	Max. surface area	14 m ²

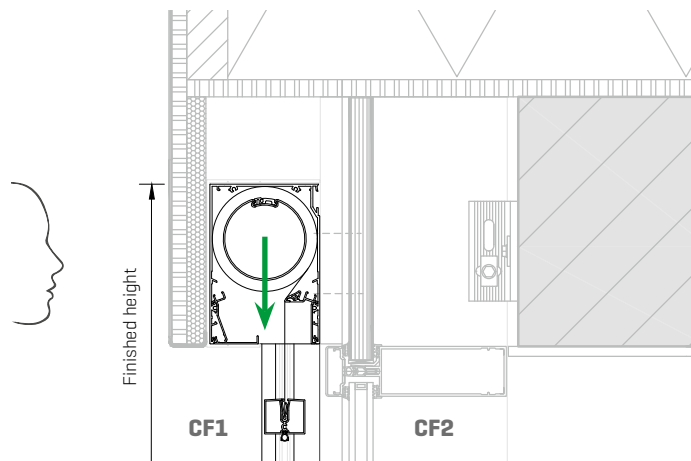
Note:

- Screens are always motorised
- To enable the interlinking of an infinite number of screens, the design takes due account of thermal expansion and shrinkage.
- The fill profile is mounted on the outside of the start and stop screens as standard. It is optional for other coupling side guiding channels.
- The start screen is always mounted on the left, and further units are installed from start to stop screen.
- Mounting the stop screen requires an additional installation width of 20 mm.
- Extended side guiding channels can be used in case the curtain wall also has a door opening.



TECHNICAL DRAWINGS

Vertical cross-section

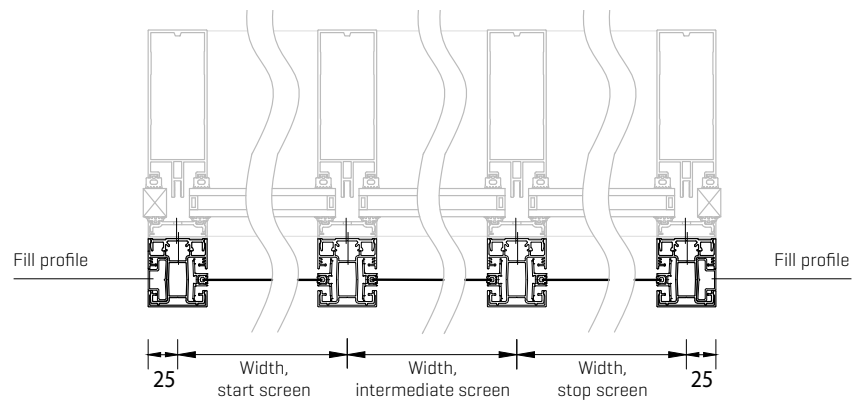


Viewing direction determines selection option cable feed left or right

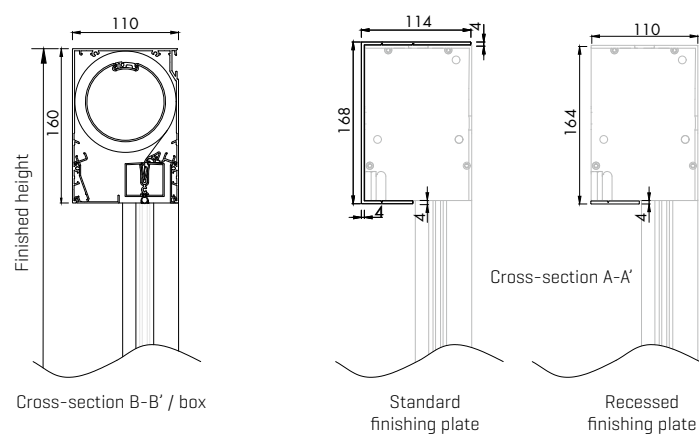


Direction in which fabric roller should be demounted

Horizontal cross-section

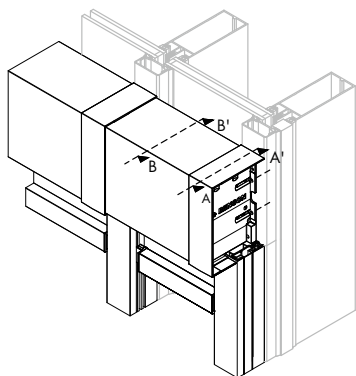


Box

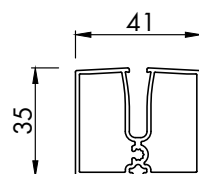


TECHNICAL DRAWINGS

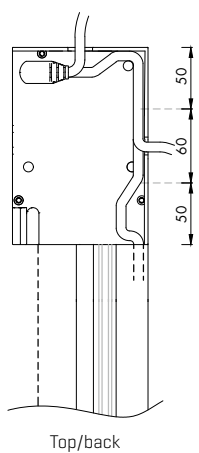
3D-view



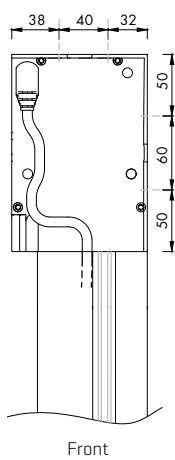
Bottom bar



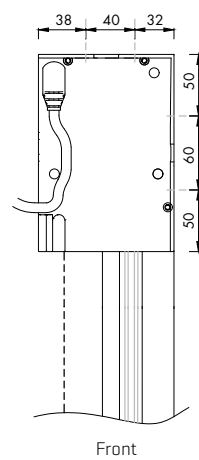
Cable duct and securing of the box



Top/back

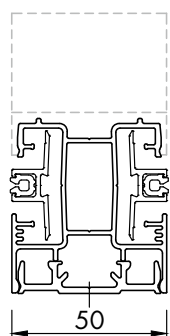


Front

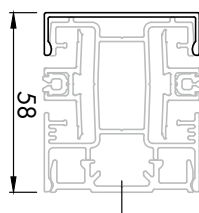


Front

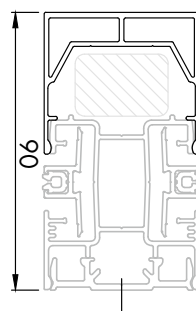
Side guiding channels



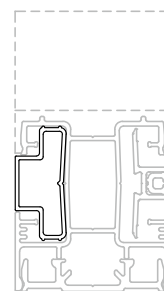
Coupling side guiding channel C.50



Removable profile as standard

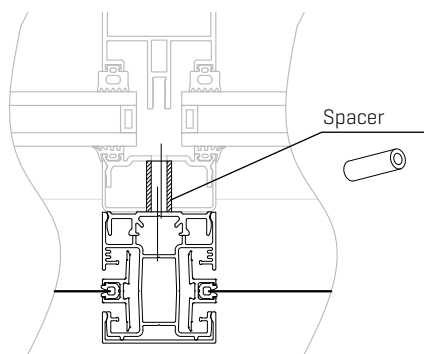
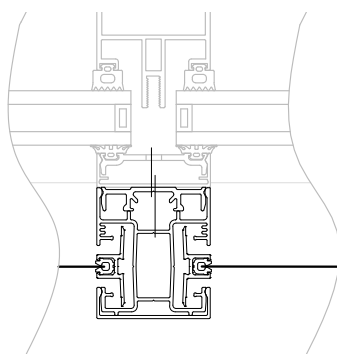


Hirschmann plug removable profile



Fill profile

Spacer



Note: spacer can be provided according to the type of cover profile

Fixscreen® 150

The best suited sun screen in just a few mouse clicks

Are your customers convinced of the efficiency of external solar shading screen to keep temperatures in your house from skyrocketing? In that case, it's especially good to know what type of screen is right for you. Fortunately, this can now be done very quickly and easily with the Renson®'s online 'Screen Selector'.

Visit www.renson.eu/screenselector. Based on the various criteria, including the type of window (corner window, sliding window, horizontal glazing, etc.) and on your personal needs, Renson® will guide you easily through the process of choosing your screen. For example, are you looking for a blackout screen, how important is it to have light coming in and a view of the outdoors, what colours do you prefer, what are your privacy requirements, etc.? Each of these answers online is used as a filter to find the screen that will provide the best result.



FABRICS

Renson® has a wide range of fabrics: polyester and fibreglass fabrics, blackout fabrics, PVC-free polyester fabrics and acrylic fabrics. Fabric screens contribute a decorative aspect in addition to performing their functional role, of providing protection from sunlight. This enables them to seamlessly integrate into the architecture of the home. The screens also have a very long service life, and keep insects out. The fabrics are distinguished on the basis of their transparency and translucency, with a wide range of options therein. It is possible to have a suitable type of fabric for every application, due to their specific characteristics, and the wide range of fabric colours available. The entire range of fabrics is available for the **Fixscreen 150 Curtain wall 60**. The fibreglass fabric Sergé, Natté & Privacy can be supplied for the **Fixscreen Minimal Curtain wall 50**.



RAL COLOURS

The aluminium parts of the screens [screen box and side guiding channels] can be supplied in a large number of RAL colours. The aluminium sun screens can therefore always be seamlessly integrated into the architectural style of the building. This is also because of the following additional options: a glossy or matt version, or rather a trendy textured paint that is not only wear and scratch-resistant, but also easy to maintain.



WARRANTY

Renson® exclusively uses high-quality materials. Your customer is therefore assured of an extended warranty period on all parts, thereby ensuring absolute peace of mind.

- **10-year** warranty on all coatings on the aluminium elements.
- **7-year** warranty on the Fixscreen technology (zip must remain in side guiding channel + optimal connection between zip and screen).
- **5-year** product warranty on normal home use and regular maintenance.









RENSON® Headquarters
Maalbeekstraat 10, IZ 2 Vijverdam, B-8790 Waregem, Belgium
Tel. +32 (0)56 62 71 11
info@renson.eu
www.renson.eu

