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# COMFORT IN ALL SEASONS

Everyone likes a vast amount of daylight in their home during the day. It, of course, improves your well-being and mood but also reduces your home's energy consumption. You not only save on lighting, but in the winter months the low sun continues to provide you with pleasant heating-free of cost, which means you have a lower energy bill.

This unfortunately comes with a downside. For example, on hot days, the inside becomes unbearably hot since the sun shines directly on the large windows which heats the house. This comes with consequences such as annoying reflections on screens and discolouration of furniture and interior accessories.

Efficient and dynamic external sun protection in the form of windproof sun protection screens (screens) can allow you to enjoy the best of both worlds. Pleasant and fresh in the summer and then comfortably warm in the winter; all without ever losing the view of your garden.



# WHY **RENSON**® SUN PROTECTION?

#### TOP QUALITY AND DURABILITY

Renson is the European trendsetter in natural ventilation, external sun protection and outdoor living. All our high-quality products are made in Belgium and are tested under the most stringent conditions.

This enables us to guarantee optimum quality. Our network of well-trained Ambassadors ensures flawless service, installation and after-sales service. Our professional approach extends to every aspect of our business.

#### MINIMALIST DESIGN

The look and product design of our products are highly innovative. Seamless integration, concealed mounting parts, durable materials and smart solutions ensure a perfectly finished product that can merge into any type of home.

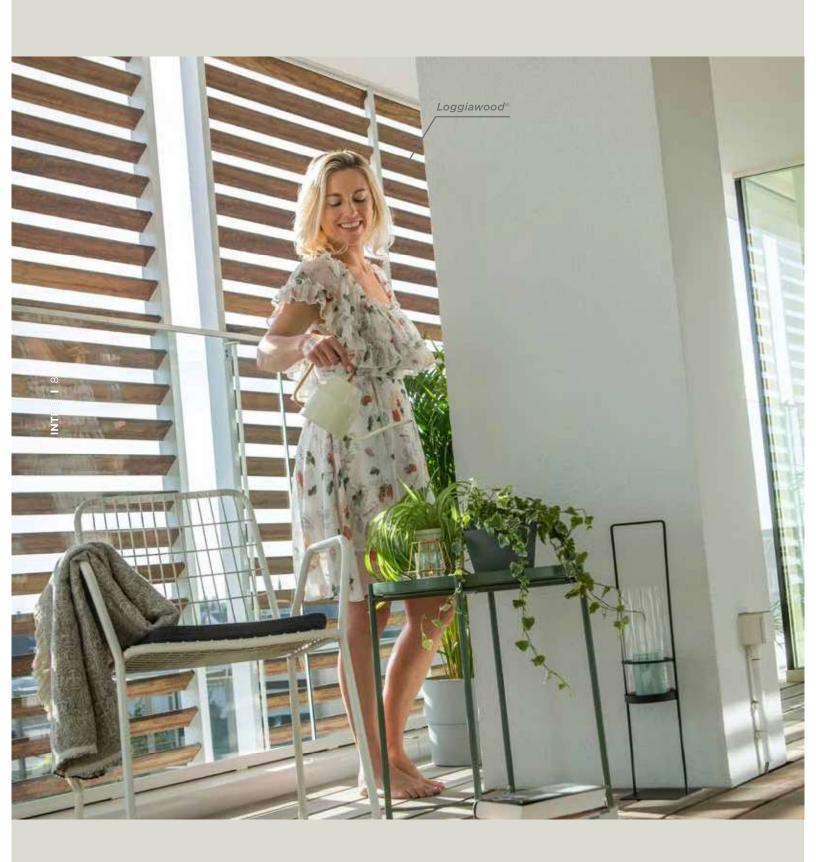
#### **ENDLESS CUSTOMISATION POSSIBILITIES**

Thanks to our product design and numerous options, we can offer you tailor-made solutions: for renovations as well as new buildings: from sun protection screens-invisibly integrated into your home-to structural sun protection with stunningly beautiful accents.

#### **ULTIMATE EASE OF USE AND MAINTENANCE**

Our products are not only designed to be easy to use, but also to retain their characteristics for many years, day in and day out, under all weather conditions.

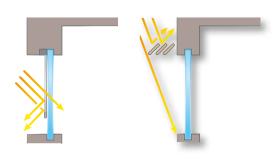
That is why the products are also made from the most qualitative and durable materials so you can enjoy them for many years after purchase—with minimum maintenance.



## 3 WAYS TO KEEP OUT THE SUN

#### **EXTERNAL SUN PROTECTION**

This is the **most efficient way** of preventing the rays of the sun from penetrating the glass. The amount of incoming natural light and heat can be controlled according to the situation. Dynamic sun protection also provides you with the benefit of killing two birds with one stone. In winter, you can enjoy the full benefit of the solar gain, while in the summer, overheating inside is prevented.



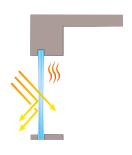
#### INDOOR SUN PROTECTION

Curtains, sun screens, or fabric screens are an excellent and relatively inexpensive way of blocking sunlight. However, they cannot offer an ultimate solution because indoor sun protection only starts blocking heat after it enters your home. This renders indoor sun protection less effective at preventing overheating, though it can offer a solution in terms of acoustics or decoration, for example.

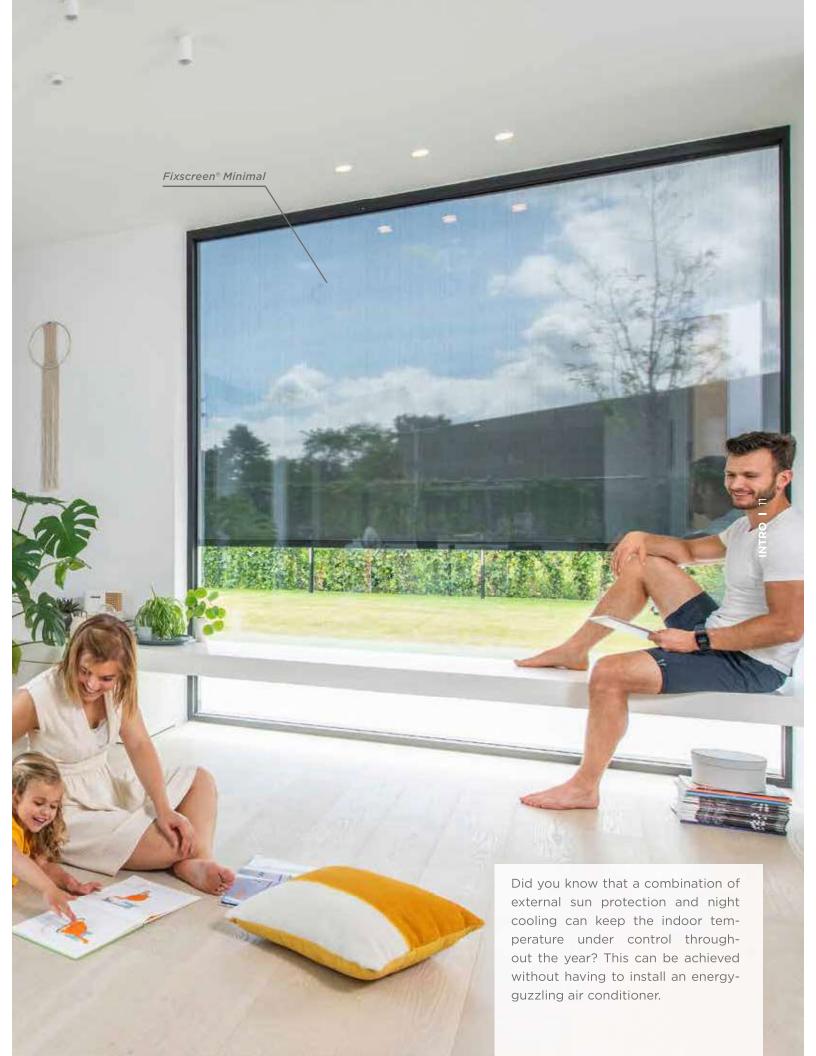


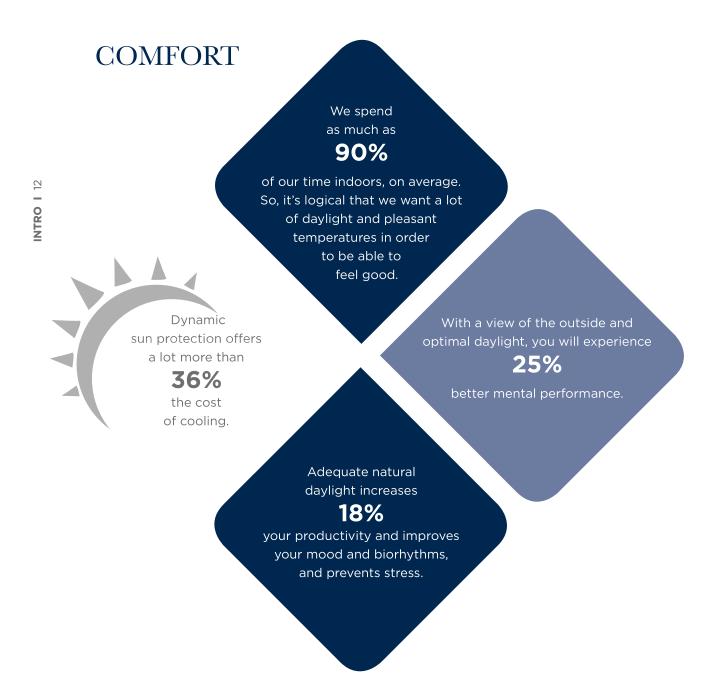
#### **SOLAR CONTROL GLASS**

It is true that this does prevent the interior of the house from overheating. Unfortunately, it also limits the amount of sunlight during the winter period, thereby allowing less heat to enter. Another drawback is the discolouration caused by the light, since solar control glass is not clear glass.



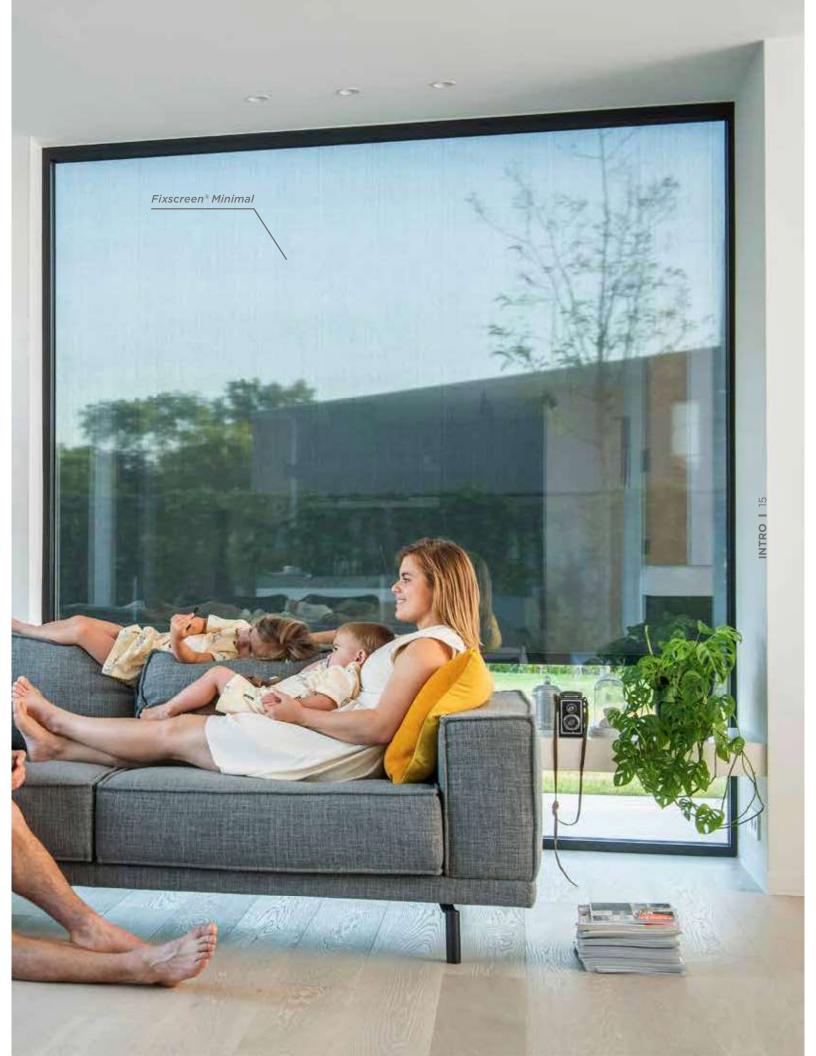












### **DESIGN**

#### Supreme versatility

Choose the right solution, depending on your taste and architecture.

#### Stylish finish

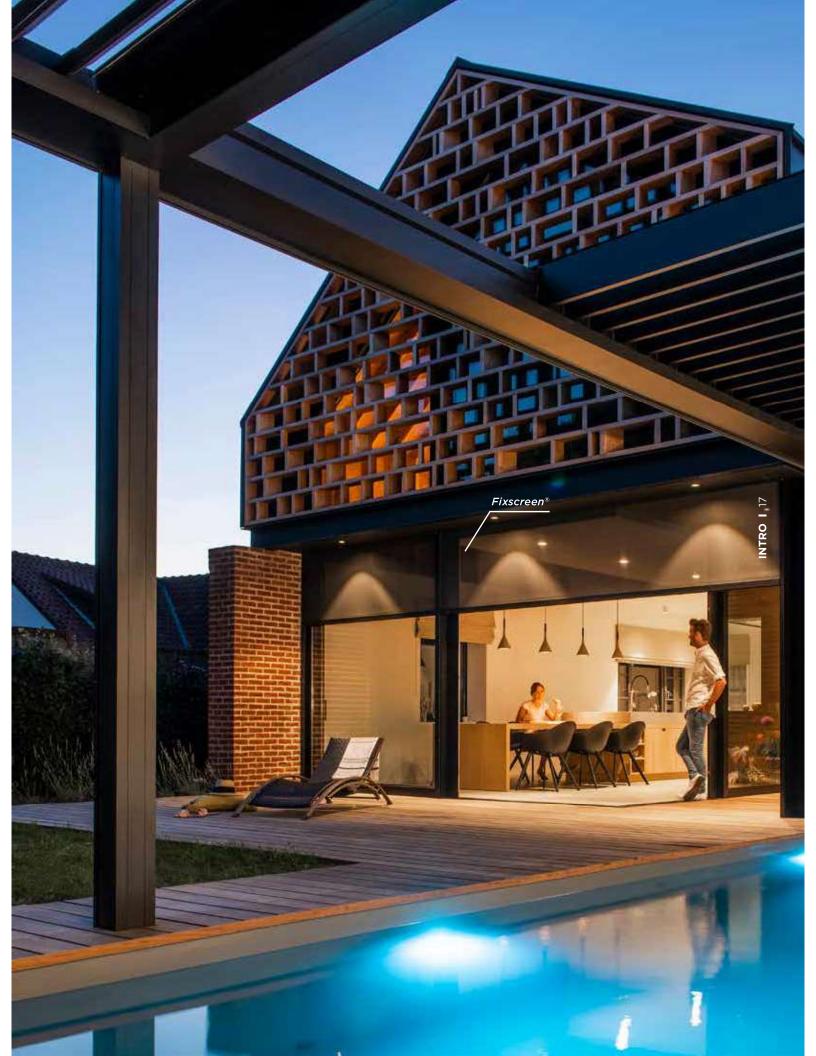
All parts are made of extruded aluminium with clean, minimal lines.

# Look and feel that harmonises fully with your home

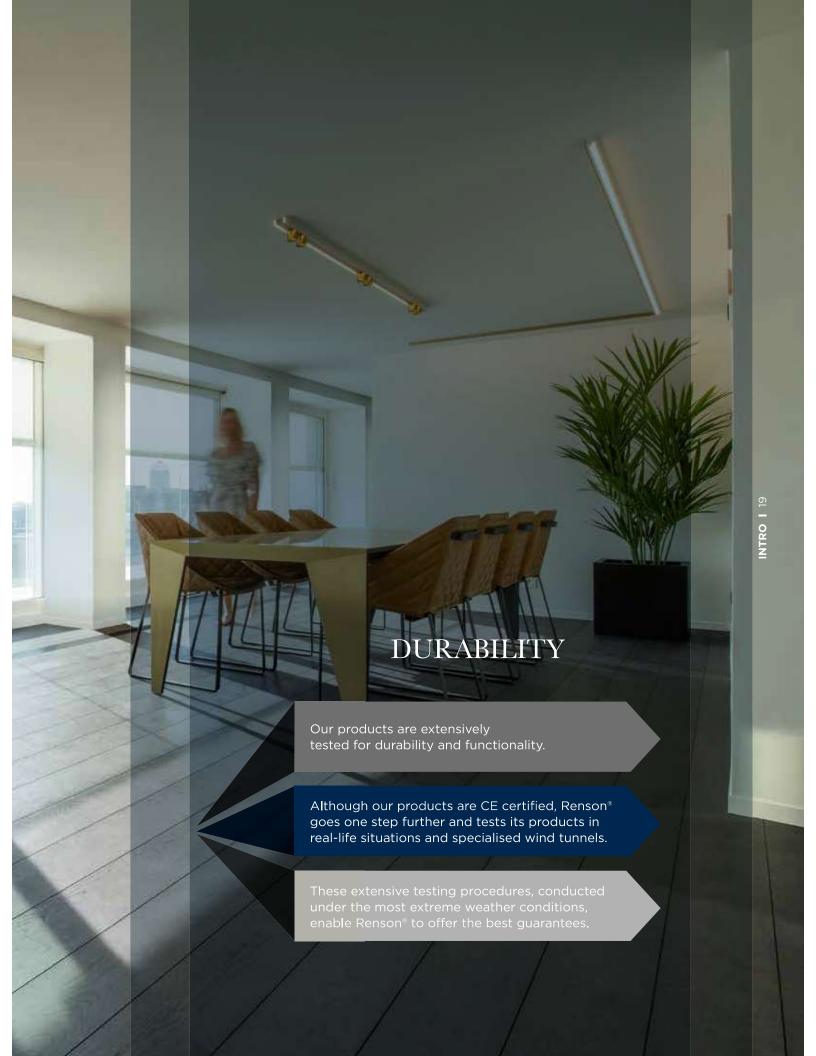
Renson \* sun protection screens can perfectly match the architecture of your home.

#### A solution for everything

Thanks to the many possible installation situations, every building can be fitted with sun protection.







# INTRO | 2

## **OUTDOOR SUN PROTECTION**

# 'A room is not a room without natural light'

architect Louis Kahn once said.

Natural daylight is essential for human beings and their wellbeing. Enjoy natural daylight thanks to outdoor sun protection.



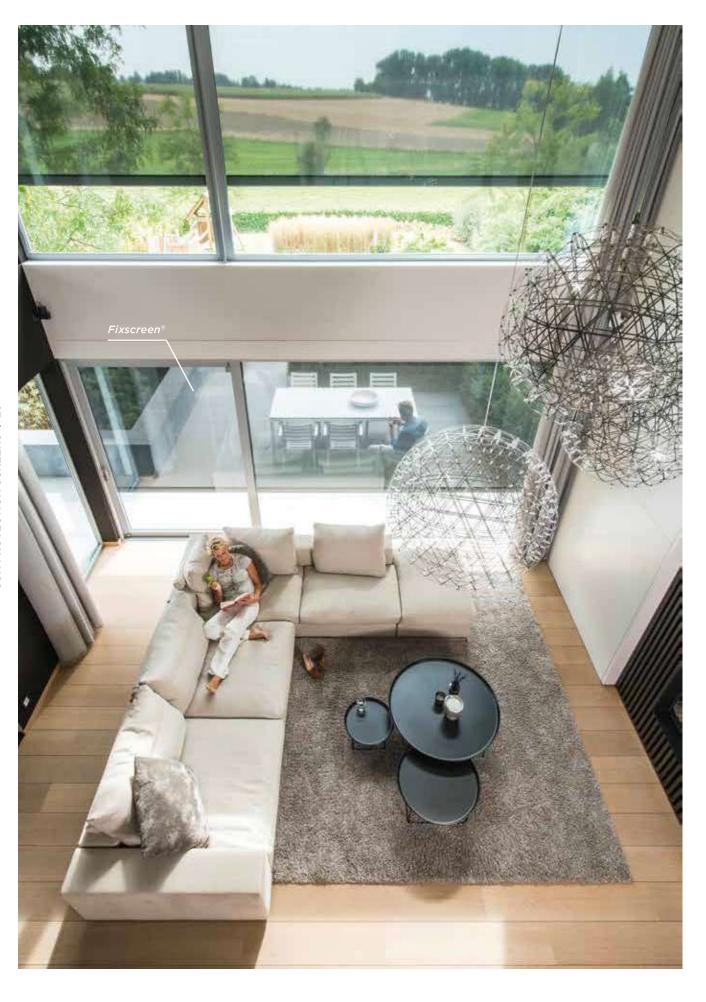




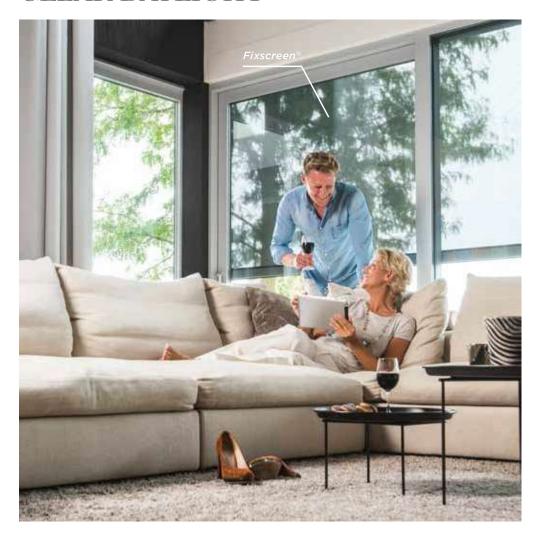
# SUN PROTECTION SCREENS

The sun is a natural source of heat and sufficient sunlight which provides us with a general feeling of well-being.

Unfortunately, however excessive bright sunlight can cause discomfort; this is when a change needs to happen. A transparent sun protection screen on the outside of the windows of your home will mean you can enjoy the advantages of the sun all year round without compromising your view of the outside.

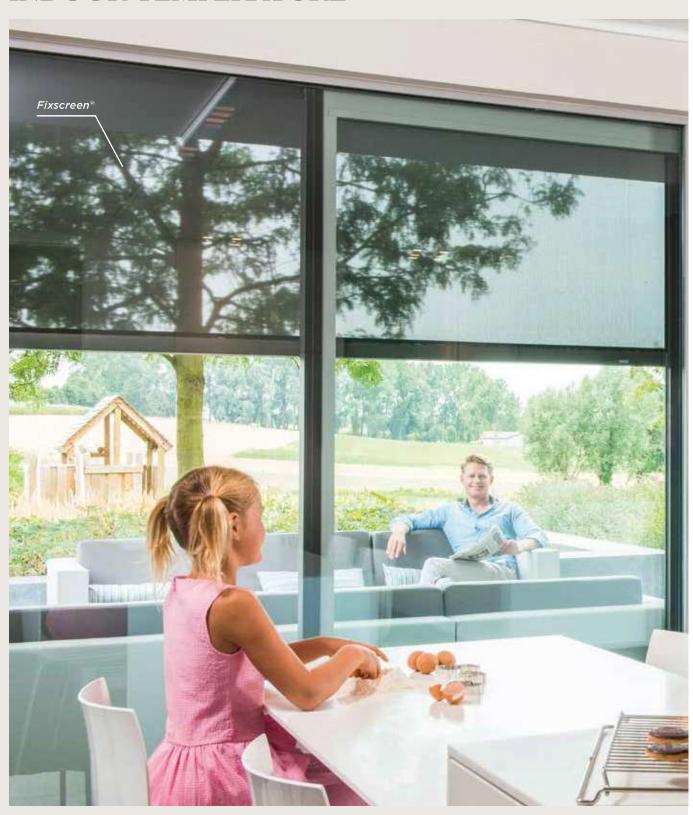


# ENJOY NATURAL, CLEAR DAYLIGHT



We all require natural daylight. The combination of dynamic external sun protection and clear glass enables you to enjoy the maximum amount of natural daylight through the windows, from the inside.

# PLEASANT INDOOR TEMPERATURE



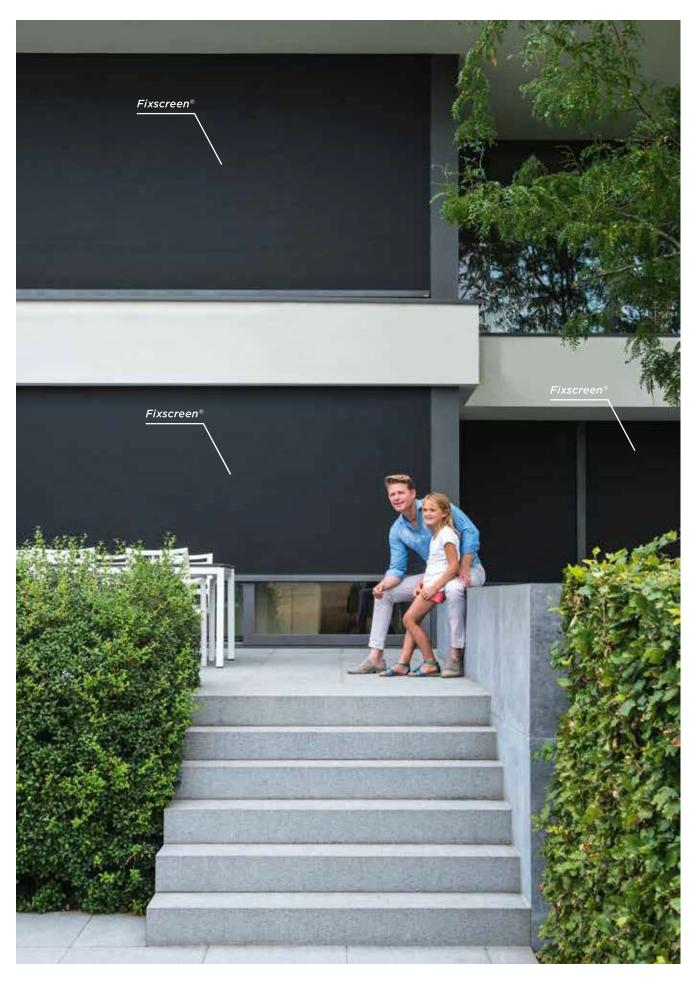


Regulate indoor temperatures and prevent overheating. Thanks to dynamic sun protection screens, the inside temperature can be up to 10° degrees lower than the outside temperature.

## **PRIVACY**



Enjoy privacy throughout the day. While you will have a perfect view from **the inside to the outside**, no one from the outside will be able to see anything of the interior of the house.







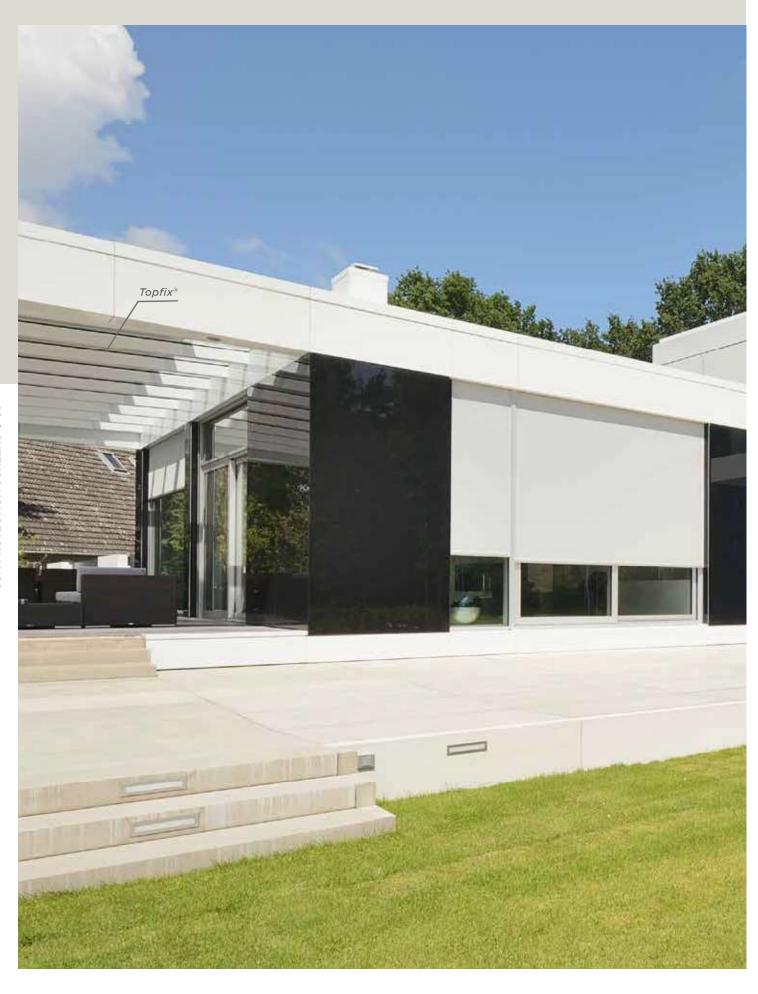


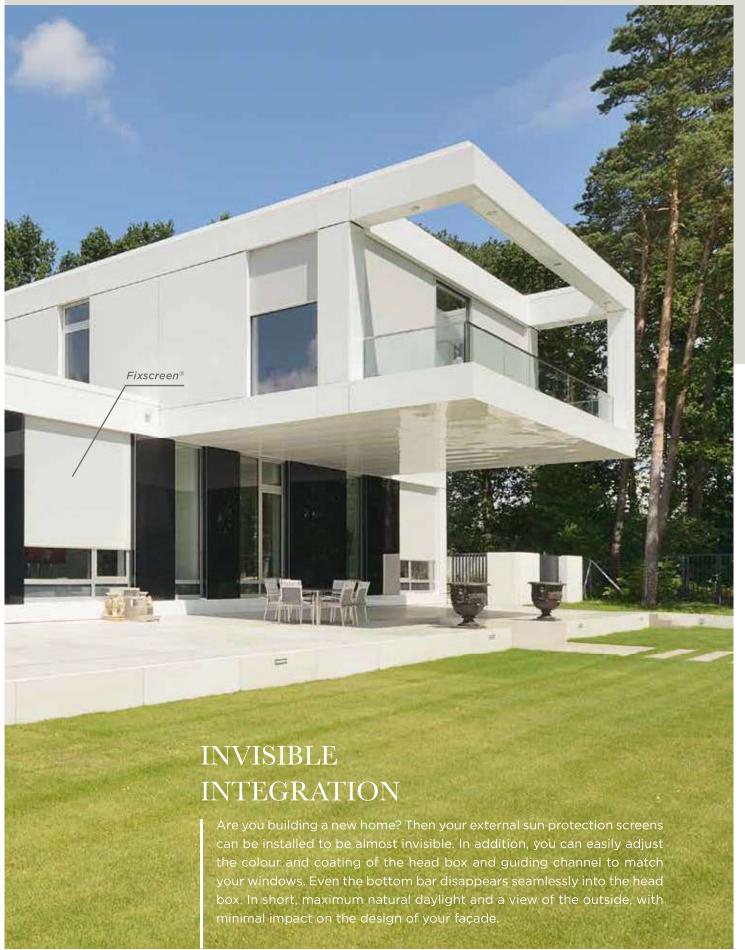
# IN PERFECT HARMONY



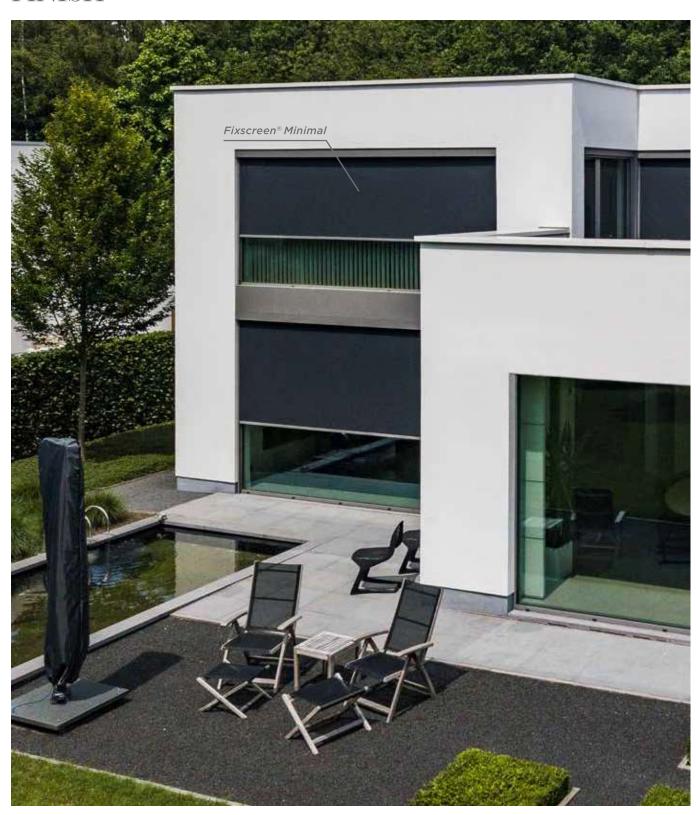


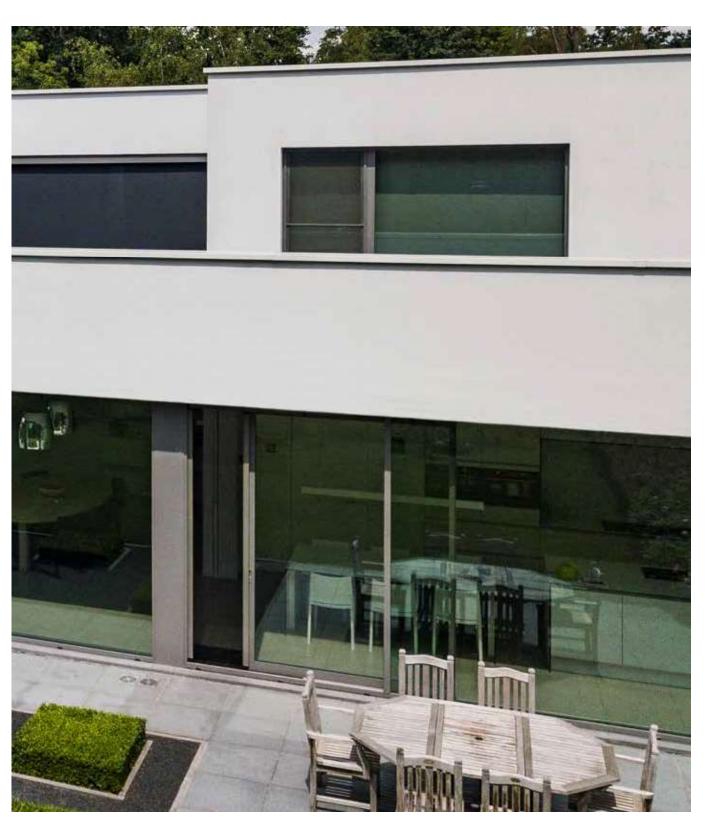
Vertical or horizontal windows, fixed sliding or corner windows: Renson® can offer you the perfect sun protection screen for all windows in new or renovated homes.





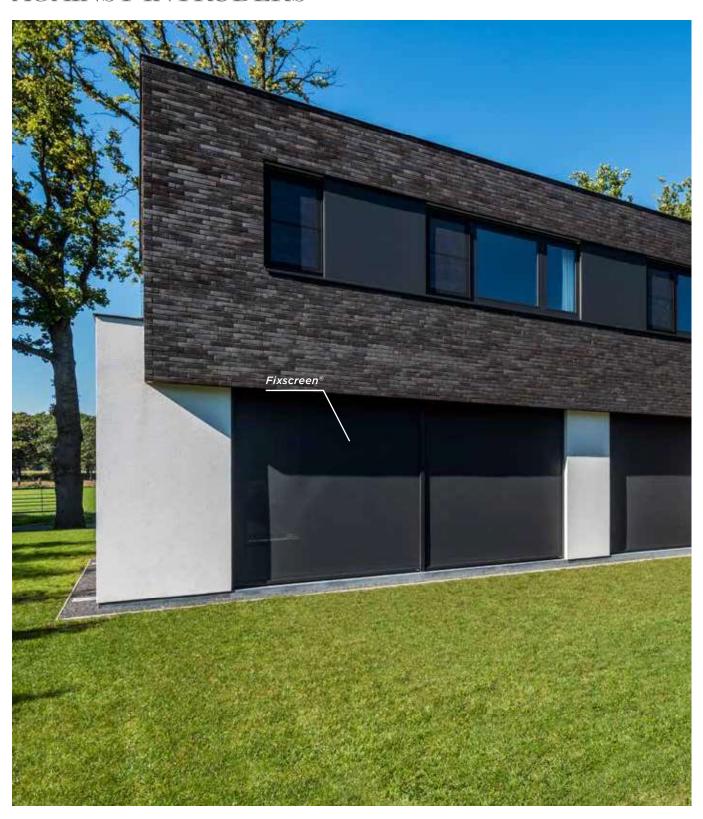
# STYLISH FINISH

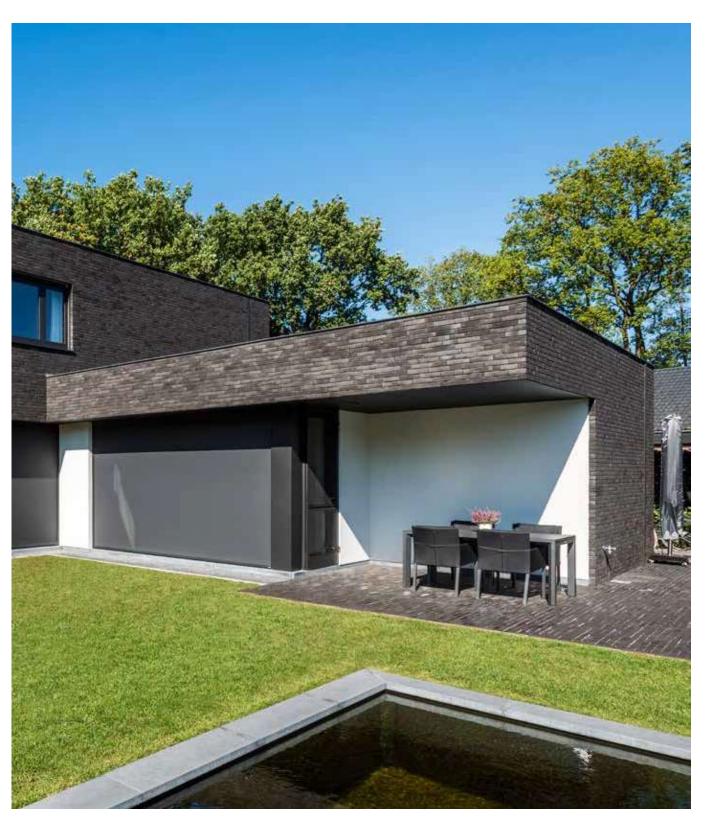




Design and minimalism are at the heart of the Fixscreen Minimal range.

# PROTECT YOUR HOME AGAINST INTRUDERS





When you are not in, you can program the movements of your automated sun protection to create the impression that someone is at home.



## CLASSIC IS ALWAYS TIMELESS

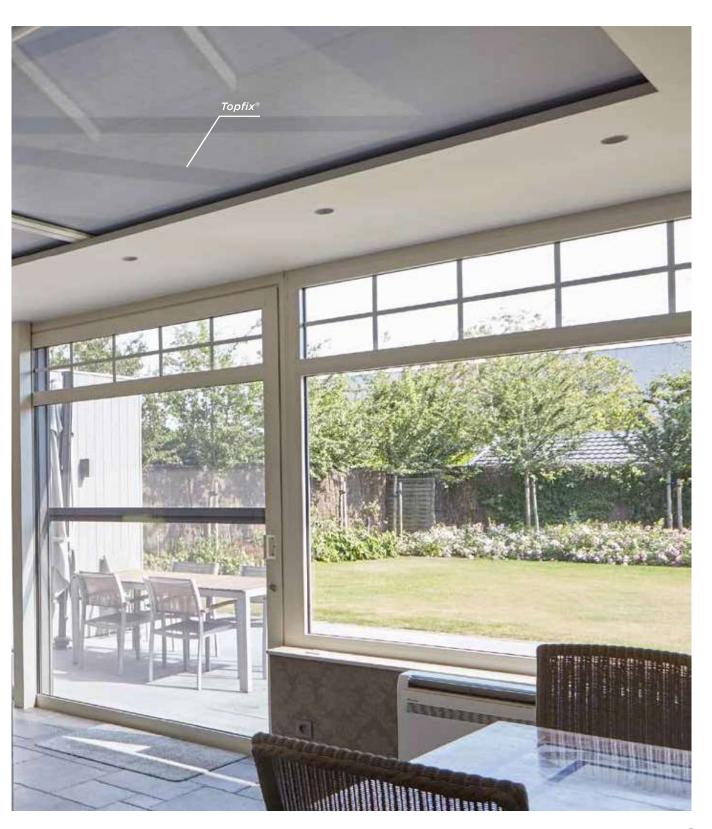
Even after that, you can still perfectly fit surface-mounted screens in your home. You choose them in the same colour as the coating on the windows so that they are hardly noticeable. Choose from 2 head box shapes (Square or Softline design), in perfect harmony with your home. These also run on solar energy, so that no electricity work needs to be done.





# ENJOY YOUR VERANDA





Too hot in the summer, annoying light and reflections? Fit sun protection screens on your veranda and enjoy this extra living space even more.



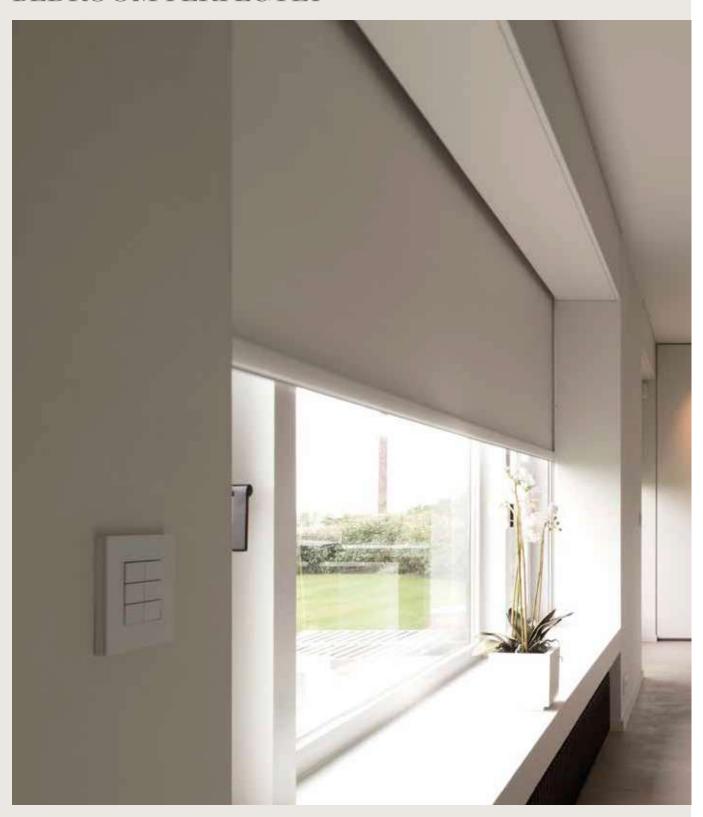
# NO INSECT NUISANCE

Did you know that a screen can also keep out insects? There are no openings for insects to pass through, which means that you can leave your windows open at all times and enjoy fresh air without any worries.



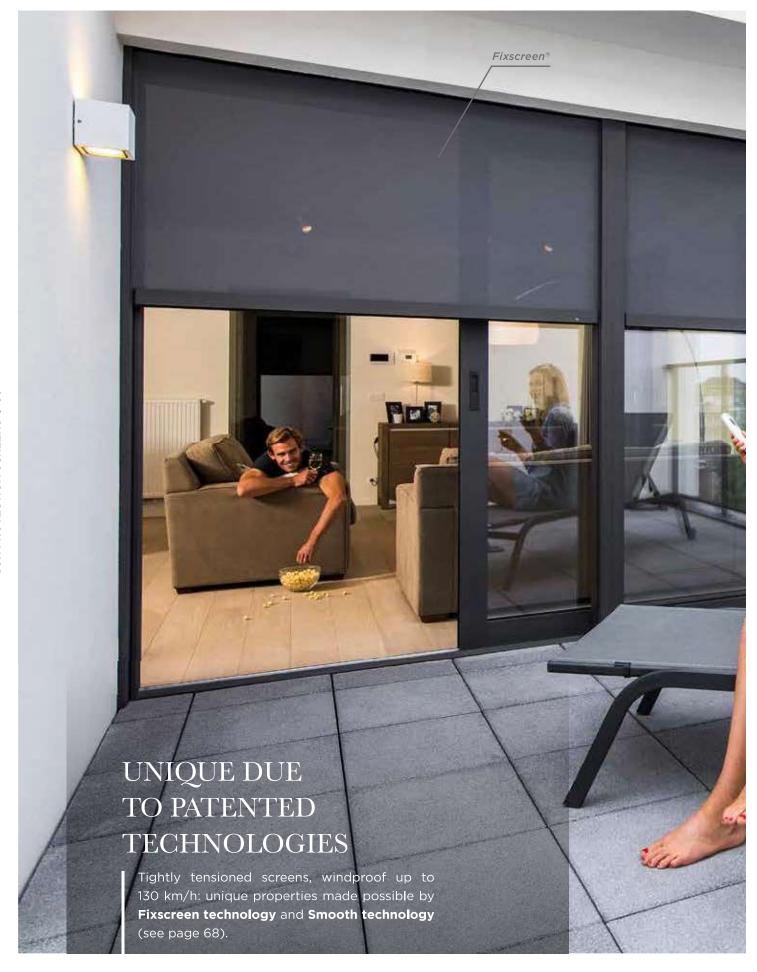


# BLACKOUT YOUR BEDROOM PERFECTLY



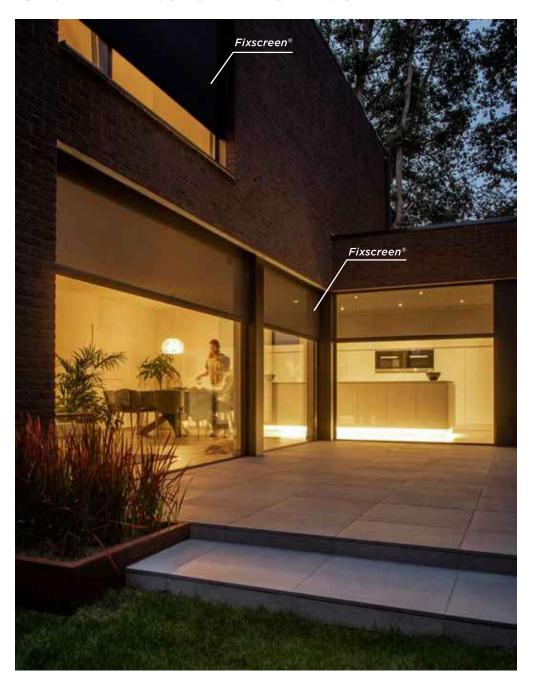


Thanks to our Fixscreen technology and its sleek, minimalist design, our Fixscreen Minimal is the perfect solution for blocking out as much light as possible in your bedroom. On top of that, it can be neatly concealed if included in the design in good time.





## BEST GUARANTEE BASED ON EXTENSIVE TESTING



Far in excess of what is required under applicable standards, the Renson® sun protection screens are tested in wind tunnels and field-tested under actual-use conditions. This is why you will find Renson® listed under the best guaranteed products in the market.







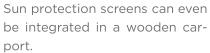
# ENJOY NOT JUST TODAY, BUT TOMORROW AS WELL



Investing in Renson® sun protection screens is choosing durable and quality products with perfect screen tension, not just for today but for the future.

# A SOLUTION FOR EVERYTHING

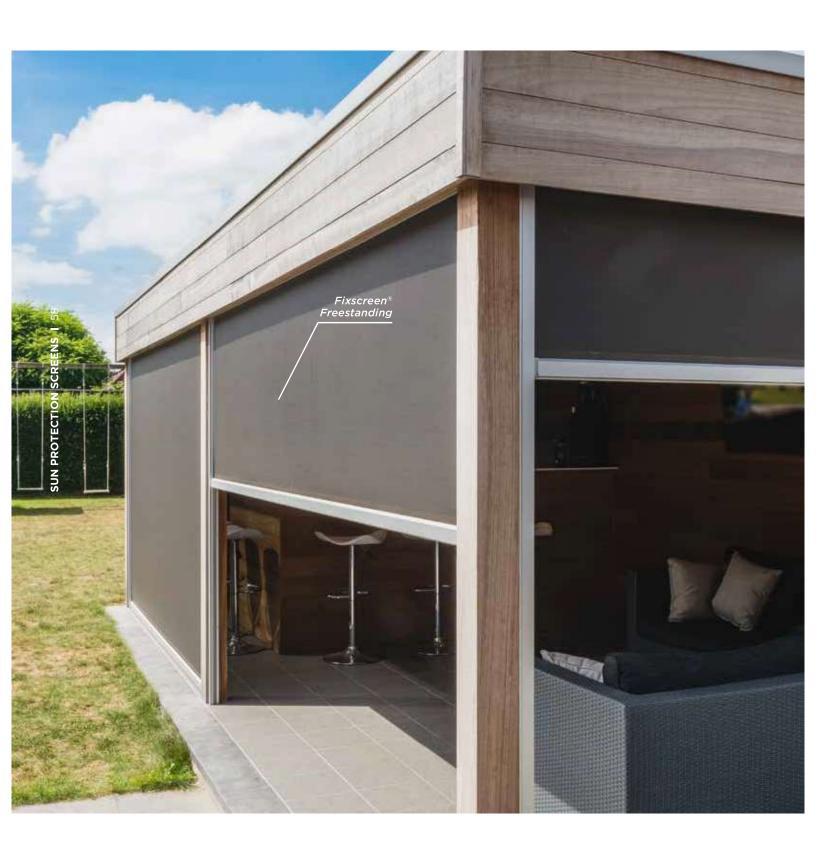


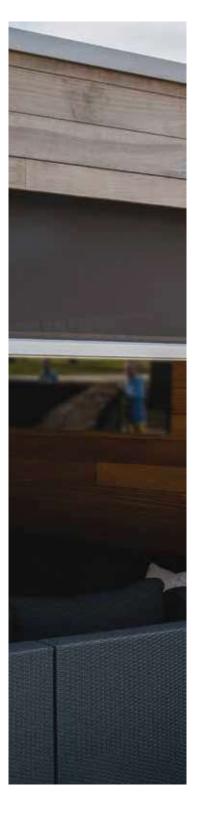










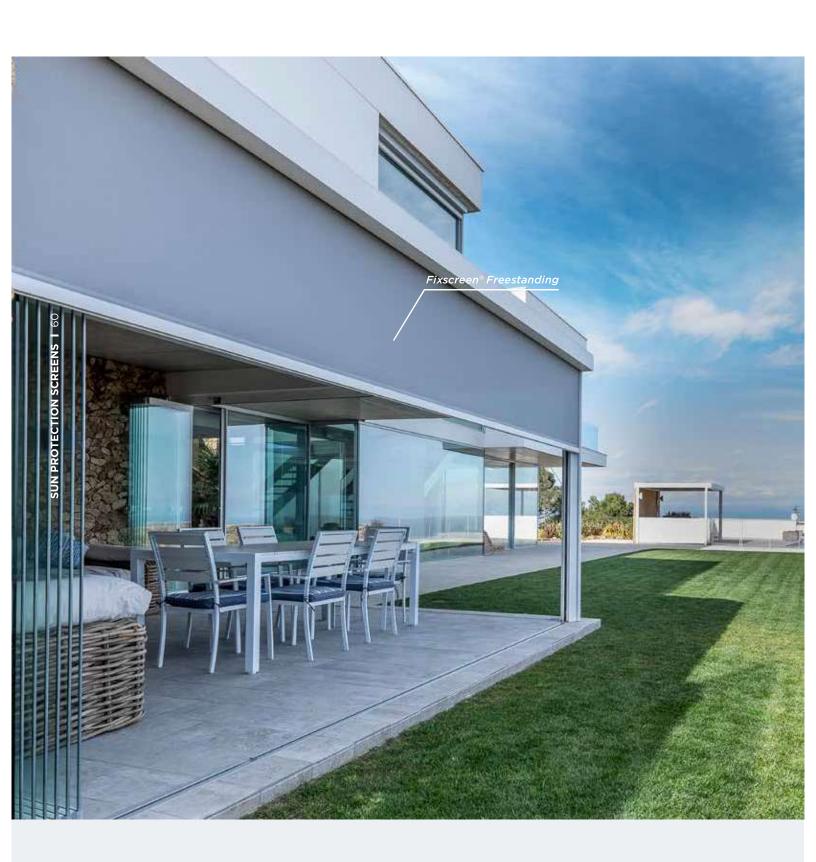


# MULTIFACETED SOLUTIONS





Wooden outbuildings and pool houses can also be perfectly equipped with screens. In order to preserve the maximum view of the garden, our screens can be fitted with a crystal window.

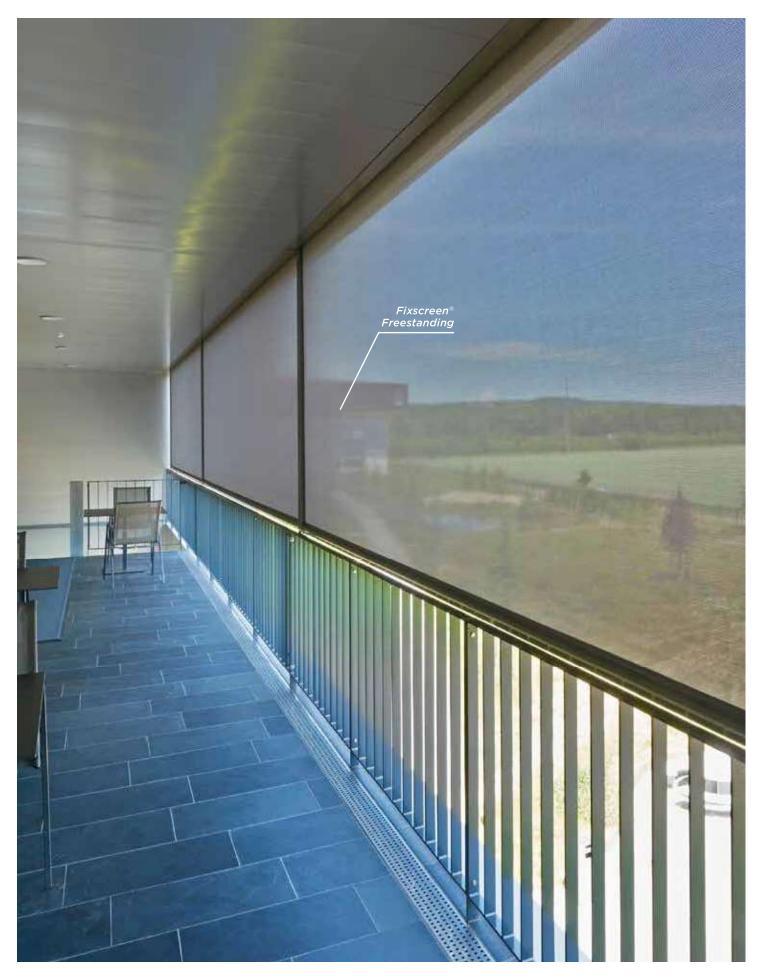


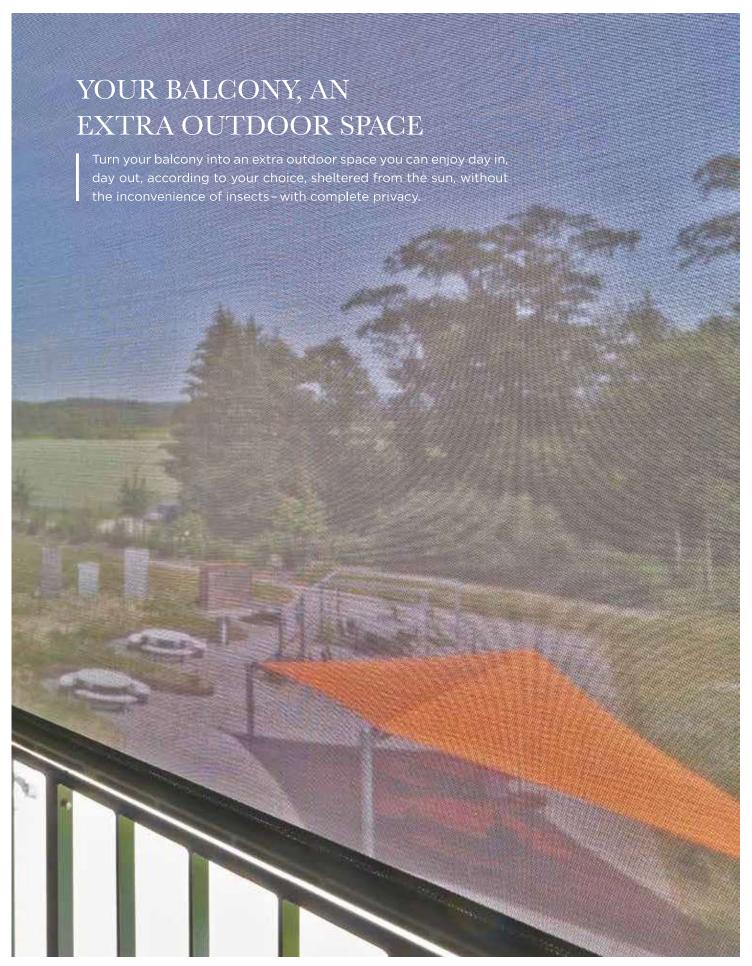


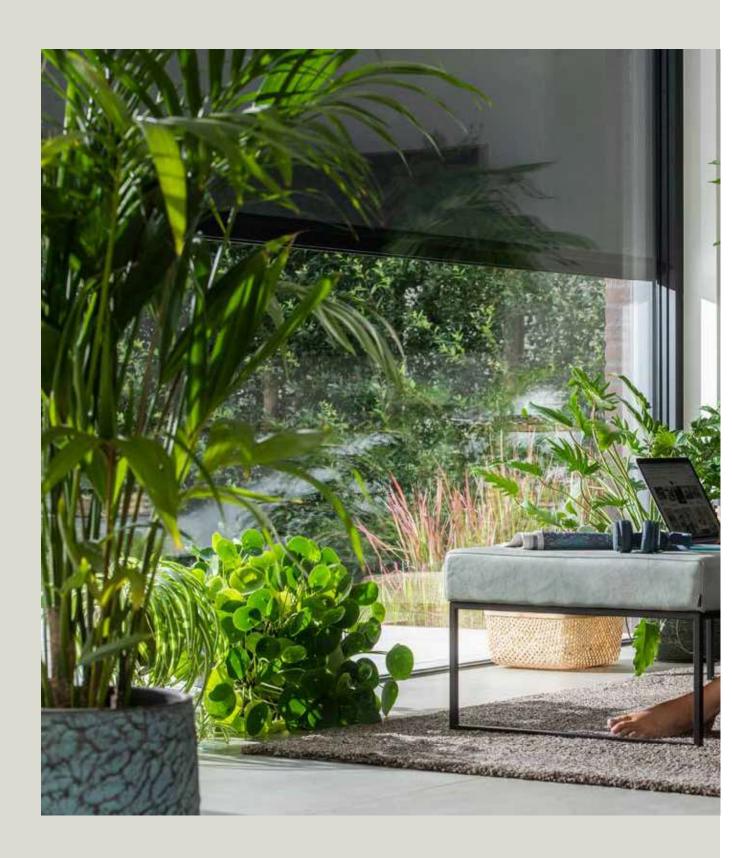
# PROTECTED OUTDOORS ENJOY



Integrate screens and enjoy your patio cover all year round, with protection from excessive sunlight, insects and wind. It also brings extra privacy into your home.

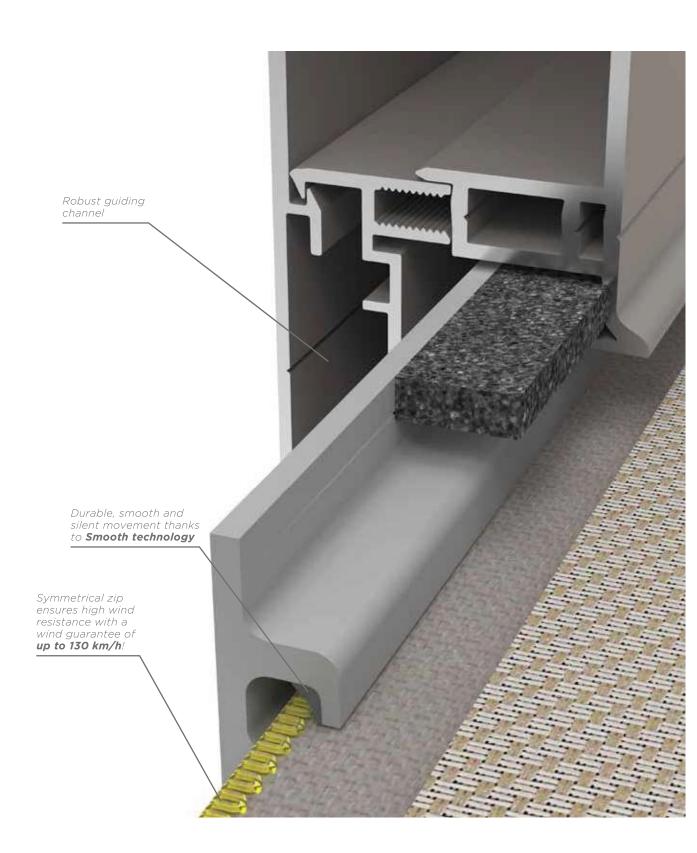






# SUN PROTECTION SCREENS

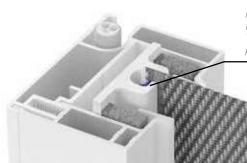
Vertical screens are perfect for all your standard, corner, or sliding windows made of all types of materials, but are also a perfect freestanding solution for your balcony, existing patio cover, or carport.





# RANGE OF VERTICAL SUN PROTECTION SCREENS

Renson®, a leading pioneer in sun protection screens, developed the Fixscreen technology. This technology has now grown into an industry standard for vertical and horizontal sun protection screens. With its ingenious zip system, the screen is windproof in the side guiding channels in all positions, while in the closed position, the screen is insect-proof.



The intelligent windproof zip inner rail also has a patented, co-extruded wear-resistant layer-Smooth technology. This guarantees extremely smooth, windproof operation.



#### WIND GUARANTEE UP TO 130 KM/H

Tests monitored by an independent test laboratory have established that the Fixscreen is capable of withstanding extremely high wind speeds, meaning Renson® can offer a guarantee of up to 130 km/h (in closed position). This corresponds to a hurricane of Beaufort 12.

#### Wind tunnel test



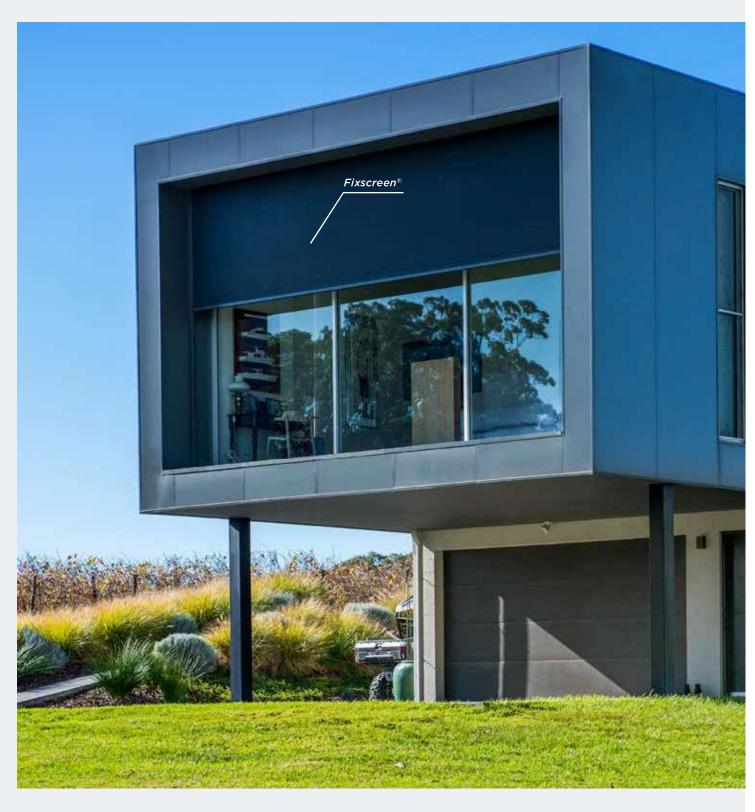
Non-windproof sun protection at 30 km/h



Fixscreen at 130 km/h



Watch the video of our wind tunnel tests here



### FIXSCREEN®

#### THE RANGE OF VERTICAL SCREENS

	Existing windows	New windows	Freestanding
Surface-mounted	~ ~	<b>~</b>	<b>V</b>
Recessed	X	V V	<b>V</b>



#### **Surface-mounted**

- Aesthetically mounted in front of the windows
- Now also available in solar-powered version



#### Recessed

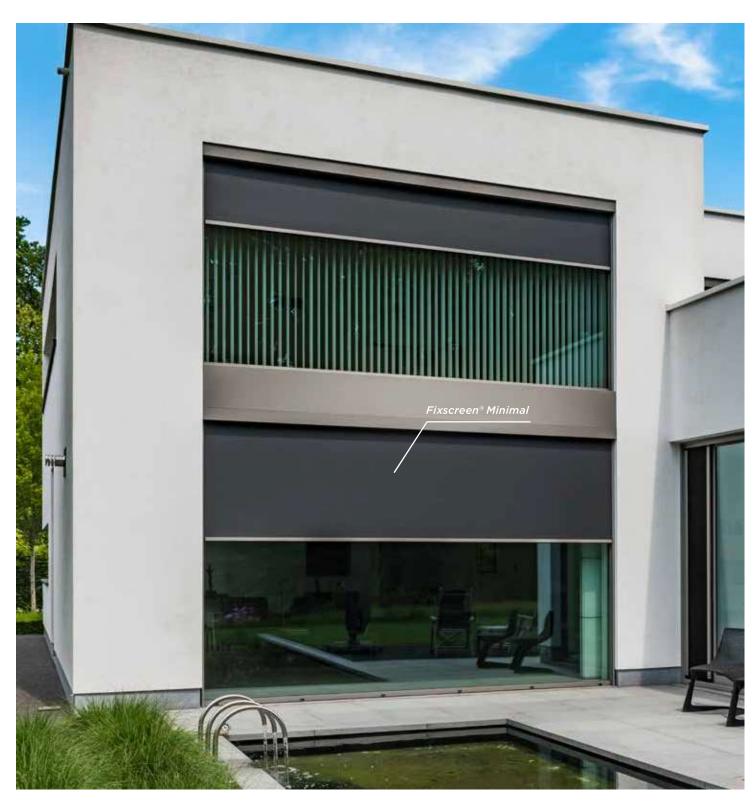
- Invisible solution
- Large surface areas possible



#### Freestanding

- Can also be used without a window behind or in front of it
- Can be integrated into a patio cover, carport, or balcony
- Also possible to integrate a crystal window







#### FIXSCREEN® MINIMAL

#### MINIMAL WINDOWS? MINIMAL SCREENS...

Of course, you would prefer to enjoy the maximum possible amount of daylight in your house during the day. This can be perfectly achieved today with large windows and 'minimal windows'. But what if indoor temperatures become unbearably high on hot days? This is where screens offer the most efficient solution, by preventing sunlight from even reaching your window glass. The best part is that with the **Fixscreen Minimal**, you will never have to compromise on the sleek appearance and modern look and feel of your home. With side guiding channels of just under 20 mm in width and slimmer screen fabric boxes, they are barely visible, while your windproof and dynamic sun protection screen allows you to enjoy pleasant indoor temperatures throughout the year. Combined with a silent motor and blackout fabric, this product is also the ideal solution for maximum darkening bedrooms from the inside.

#### THE RANGE OF VERTICAL SCREENS

	Existing windows	New windows	Freestanding application
Surface-mounted	<b>/ /</b>	<b>~</b>	<b>V V</b>
Recessed	×	V V	<b>V V</b>



#### **Surface-mounted**

- Minimal impact on architecture
- Minimum head box size
- Minimum side guiding channel of only 20 mm view width
- Silent motor available for indoor use



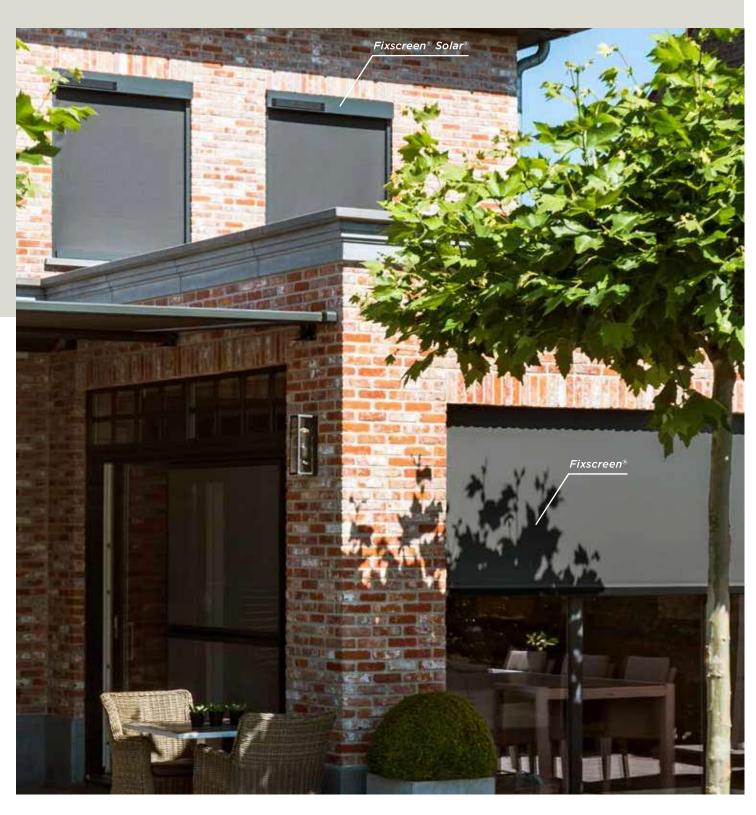
#### Recessed

- Minimum head box size for aesthetic integration into the façade
- High-end design
- Unique solutions for minimalist windows, including a completely freestanding coupling side guiding channel
- Silent motor available for indoor use



#### Freestanding

- Can be used without a window behind it
- Can be integrated into a patio cover, carport, or balcony
- High wind guarantee up to 100 km/h





# FIXSCREEN® 100 SOLAR

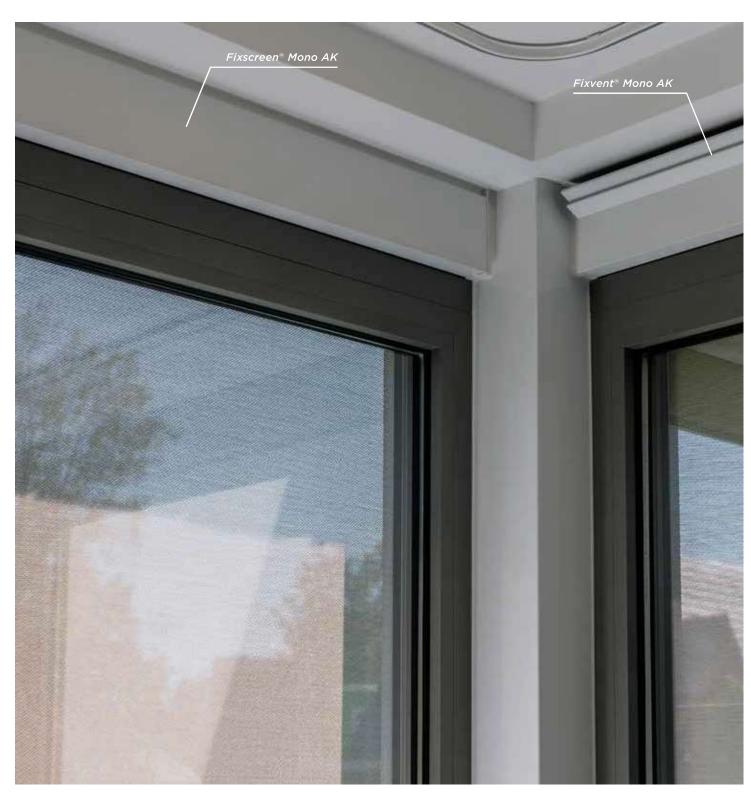
### SUN PROTECTION WITHOUT BUILDING WORK

The Fixscreen 100 Solar is a windproof, **solar-powered**, surface-mounted screen. A solar cell mounted on the front of the head box powers the autonomous control of the screen, and therefore no separate electrical wiring is required. This windproof screen can therefore easily be mounted on your window without having to conduct building work to install electrical wiring. The Fixscreen 100 Solar is therefore the ideal solution for renovation projects, wherein it is possible to achieve a maximum surface area of up to 10.8 m<sup>2</sup>.





The Fixscreen 100 Solar can also be ordered with a separate solar cell, incl. a battery for façade installation. This allows the solar cell to be installed in a different place on the façade where it can capture more sunlight.



# FIXSCREEN® MONO AK

### **SUN PROTECTION AND ACOUSTICS**

Thanks to the integrated acoustic foam, the Fixscreen Mono AK is perfect for façades subjected to excessive noise levels and the head box can be accessed from the inside. In terms of dimensions, it can be combined perfectly with the Fixvent Mono AK.

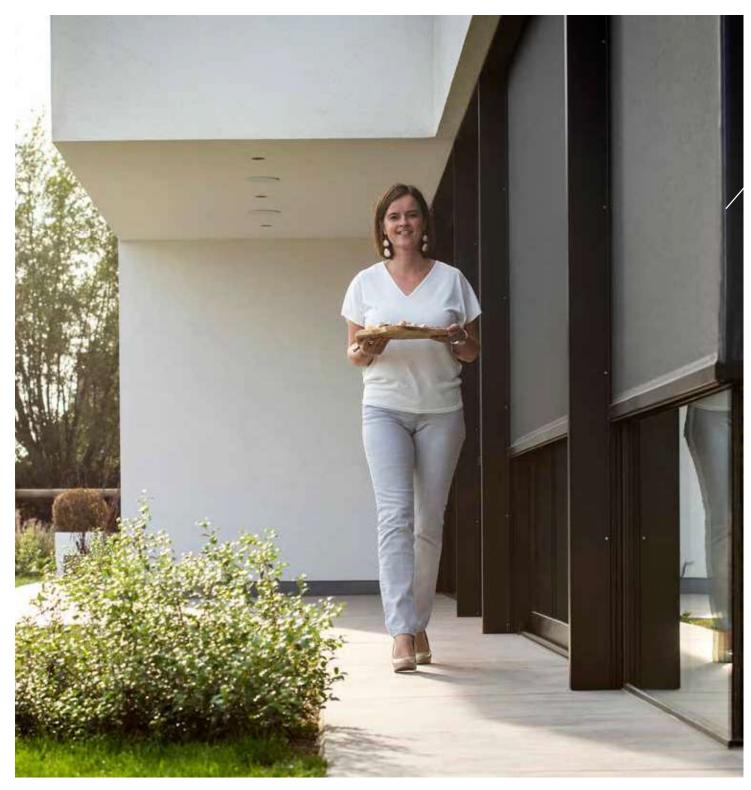


# FIXVENT® MONO AK

# SUN PROTECTION, ACOUSTICS, AND VENTILATION

The Fixvent Mono AK not only provides sun protection but also ventilation with the windows closed and is draught-free thanks to a self-regulating valve that reacts to differences in pressure. Equipped with blackout fabric, this is also a perfect solution for bedrooms.







# PANOVISTA® (MAX)

### A RANGE OF SCREENS FOR GLASS-ON-GLASS CORNER WINDOWS

What could be worse than having to look at unsightly aluminium side guiding channels on your glass-on-glass corner or sliding windows that need sun protection screen? Or even the cable guiding system on the corners of the glass? Fortunately, you have the Panovista and Panovista Max, which also ensure you don't have to sacrifice your panoramic view either.

### 2 solutions:



Panovista® (open corner)

### **Panovista**

The Panovista with a smaller head box size has detached corner screens.

Maximum width of 4000 mm on each side and maximum height of 2800 mm with a maximum total surface area of  $22.4 \text{ m}^2$ 



Panovista® Max (with zip on the corner)

### **Panovista Max**

With the Panovista Max, the 2 screens on the corner also zip into each other when lowering. This creates a fully secured corner and even greater wind resistance. It does require annual maintenance.

Maximum width of 6000 mm on each side and maximum height of 3400 mm with a maximum total surface area of  $30\ m^2$ 

# RANGE VERTICAL SUN PROTECTION SCREENS

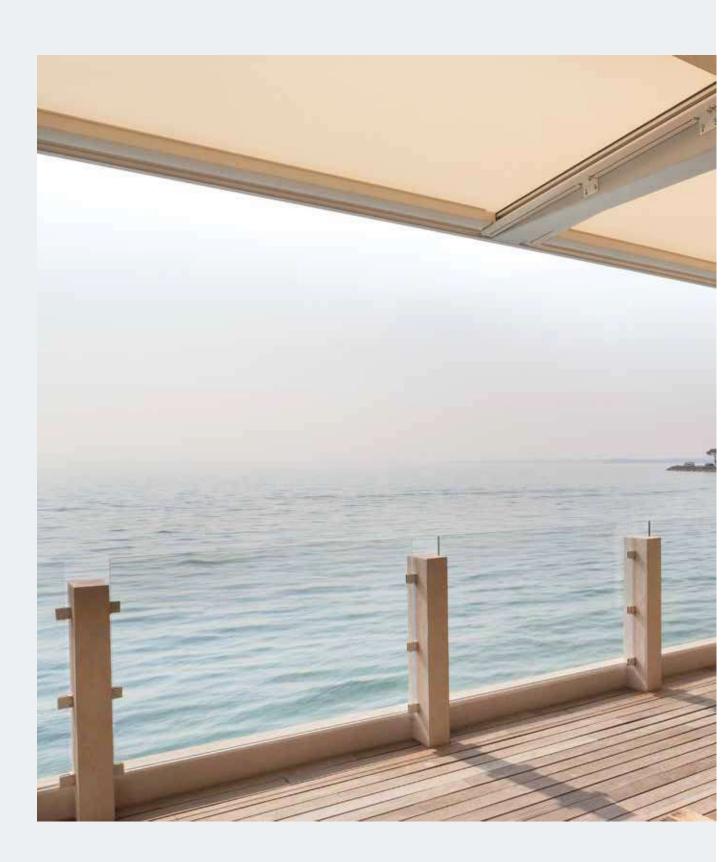
	FIXSCREEN MINIMAL			FIXSCREEN		
(in mm)	Fixscreen® Minimal S	Fixscreen® Minimal M	Fixscreen® Minimal Large	Fixscreen® 100	Fixscreen® 100 Solar	Fixscreen® 100 Slim
TYPE OF INSTALLATION	ON (HEAD BOX DIN	(ENSIONS HxD)				
Surface-mounted	100 x 90 (photo)	120 x 110	140 x 130	100 x 100	128 x 100 (incl. tube profile)	150 x 110
Recessed	140 x 90	160 x 110 (photo)	180 x 130		-	
Freestanding	Yes	Yes	Yes	No	No	Yes
DESIGN						
Screen surface area (W x H)	4000 x 2500 3200 x 3000 (10 m²)	5000 x 3500 4500 x 4000 (18 m²)	6000 x 3800 5600 x 4500 4800 x 5800 3600 x 6000 (27,8m²)	5000 x 2000 4000 x 4000 (16 m²)	4000 x 2700 3000 x 3500 (10.8 m <sup>2</sup> )	6000 x 2800 4000 x 4000 (16.8 m²)
Screen surface area (W x H) blackout fabric <sup>(1)</sup>	3200 x 2500 (8 m²)	4000 x 4000 (16 m²)	N/A	4000 x 2800 (11.2 m²)	2000 x 2700 (5.4 m²)	4000 x 2800 (11.2 m²)
Bottom bar	35 x 41 Hidden welded seam Fully retractable bottom bar in case of recessed installation	35 x 41 Hidden welded seam Fully retractable bottom bar in case of recessed installation	35 x 41 Hidden welded seam Fully retractable bottom bar in case of recessed installation	50 x 30 45 x 26	50 x 30	46 x 30 Fully retractable bottom bar
COMFORT						
User comfort	Motorised (Optional silent motor for indoor applications)	Motorised (Optional silent motor for indoor applications)	Motorised	Motorised	Motorised with solar cell	Motorised
Thermal comfort	Sun protection Reduction in energy rating	Sun protection Reduction in energy rating	Sun protection Reduction in energy rating	Sun protection Reduction in energy rating	Sun protection Reduction in energy rating	Sun protection Reduction in energy rating
Additional acoustic comfort	Light	Light	Light	Light	Light	Light
DURABILITY						
CE-certified			Ye	es		
Wind class EN13561:2004+A1:2008	WK3	WK3	WK3	WK3	WK3	WK3
Wind guarantee	Up to 130 km/h					
Smooth technology	Yes	Yes	Yes	Yes	Yes	Yes
MAINTENANCE-FRIEN	IDLY					
Connect&Go*	Yes (3)	Yes (3)	Yes (3)	Yes	No	Yes
Click&Safe*	Yes	Yes	Yes	No	No	No

<sup>(1)</sup> Limitation of screen size combined with blackout fabric

<sup>(2)</sup> Bottom bar disappears into the head box up to a height of 2800 mm



150 x 155	N/A	N/A	150 × 110	N/A
130 x 133	132 x (167-287)	132 x (167-287)	130 X 110	150 x 155
Yes	No	No	No	No
6000 x 3600 3200 x 6000 (22 m <sup>2</sup> )	4000 x 3500 (14 m²)	4000 x 3000 (12 m²)	4000 x 4000 x 2800 (22.4 m²)	6000 x 6000 x 3400 (30 m²)
6000 x 4000 (16 m²)	2000 x 2700 (5.4 m²)	2000 x 2700 (5.4 m²)	N/A	N/A
46 x 30 Fully retractable bottom bar <sup>(2)</sup>	30 x 57 Hidden welded seam	30 x 57 Hidden welded seam	46 x 30 Fully retractable	46 x 30 Partially retractable
Motorised	Motorised	Motorised	Motorised	Motorised
Sun protection Reduction in energy rating	Sun protection Reduction in energy rating	Sun protection + ventilation Reduction in energy rating	Sun protection Reduction in energy rating	Sun protection Reduction in energy rating
Light	Strong	Strong	Light	Light
WK3	WK3	WK3	N/A	N/A
	Up to 130 km/h		Up to 37 km/h	Up to 90 km/h
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
No	Yes	Yes	No	No





# SUN PROTECTION SCREENS

**Horizontal window screens** provide protection from bright sunlight on verandas, roof lights, and the patio.



# TOPFIX®

Topfix is a sun protection screen with a revolutionary tensioning technique. This combination with the Fixscreen technology ensures unsurpassed screen tension at all times, even without supporting rollers. The compact head box makes the Topfix suitable for surface areas up to  $12 \text{ m}^2$ . Good to know: the fabric box can be installed on top, bottom or even on the side.



Head box at the top



Head box sideways , left or right



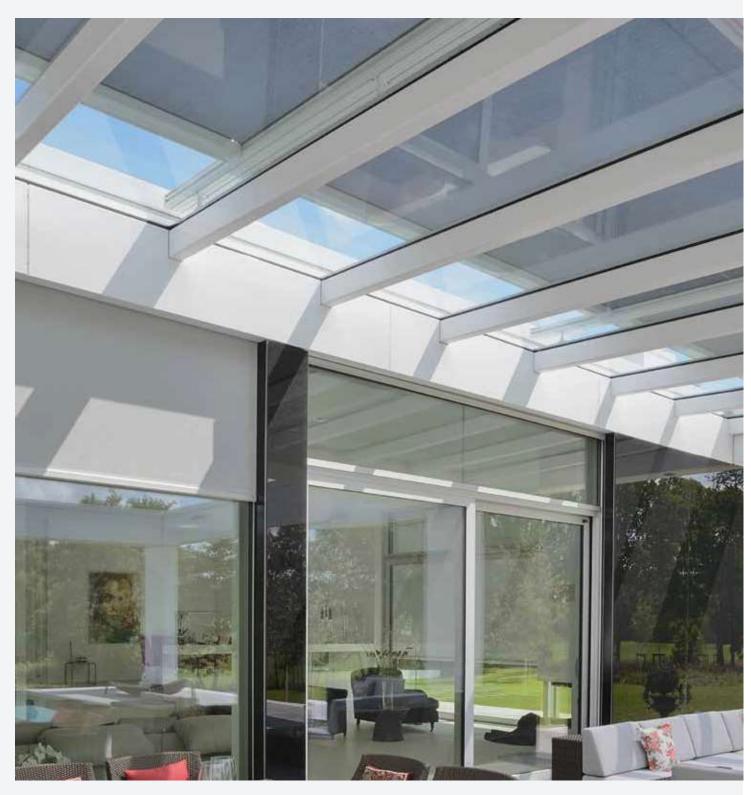
Head box at the bottom (for indoor applications)

# TOPFIX® VMS

The Topfix VMS is the result of a collaboration between Renson\* and Velux, and is a specific sun protection system for the Velux Modular Skylights roof lights. The Topfix VMS fits both

above the fixed and movable modules of the Velux Modular Skylights.



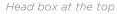


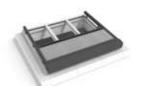


# TOPFIX® MAX

With the Topfix Max, the fabric box may be fitted at the top or at the bottom, as per choice. Topfix Max can also be equipped with a blackout fabric, up to 5 m wide and up to  $30 \text{ m}^2$  in total.







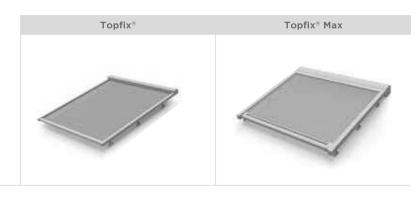
Head box at the bottom

Topfix Max can also be used as freestanding sun protection on top of an existing veranda or patio cover.





# RANGE HORIZONTAL SUN PROTECTION SCREENS



(	ın	m	m	)

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Type of installation (head box dimensions HxD)			
Surface-mounted	105 x 100	260 x 202	
Recessed	N/A	N/A	
Freestanding	N/A	Yes	
Design			
Screen surface area (W x O)	4000 :: 7000	5000 x 6000 6000 x 5000 (30 m²)	
Screen surface area (W x O) blackout fabric (1)	4000 x 3000 (12 m²)		
Bottom bar	60 x 40 90 x 50	140 x 74	
Comfort			
User comfort	Motorised	Motorised	
Thermal comfort	Sun protection Reduction in energy rating	Sun protection Reduction in energy rating	
Additional acoustic comfort	Light	Light	
Durability			
CE-certified:	Yes		
Wind class EN13561:2004+A1:2008	WK3	WK3	
Wind guarantee	Up to 120 km/h <sup>(2)</sup>	Up to 120 km/h	
Smooth technology	Yes	Yes	

<sup>(1)</sup> Limitation of screen size combined with blackout fabric (outdoor use)

<sup>(2)</sup> Wind resistance depends on  $W \times H$  combination and the height of the mounting bases (see our guarantee certificate)