

# MASTERING SUN PROTECTION

FABRIC SUN PROTECTION





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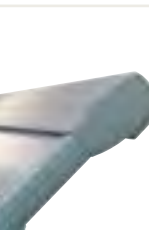
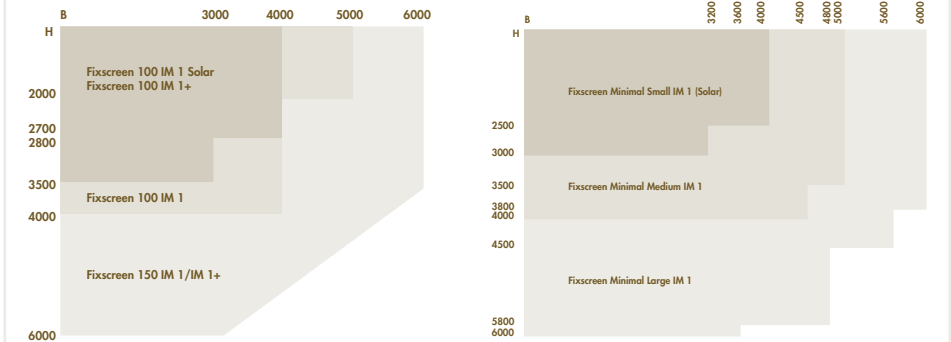
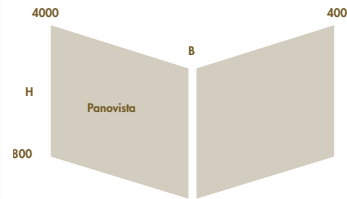
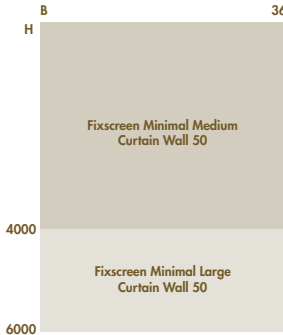
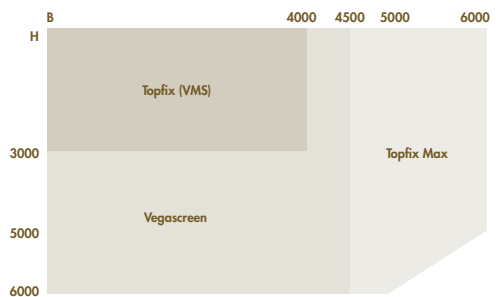
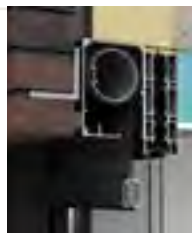




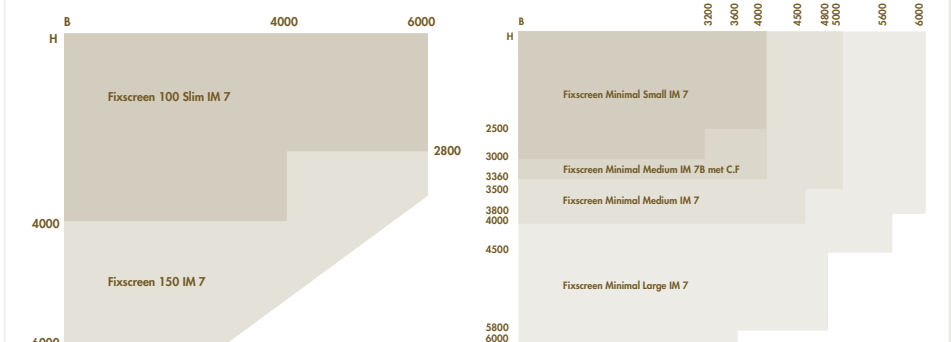
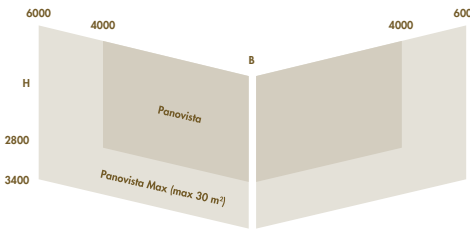
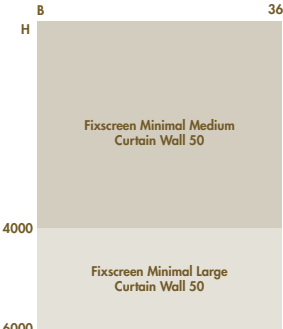


// Our passion lies in creating innovative products and complete solutions that turn every home into a healthy and comfortable place to live. Our commitment to 'creating healthy spaces' is the foundation of everything we do.




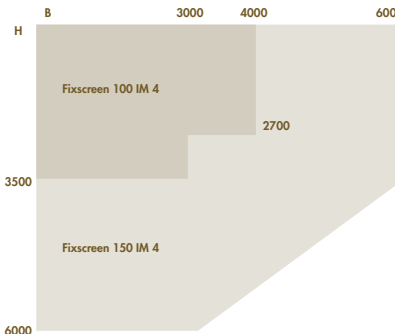
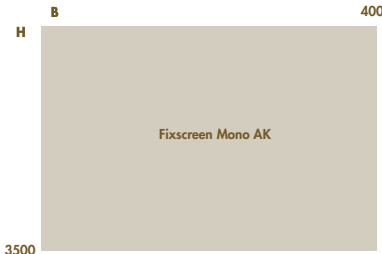







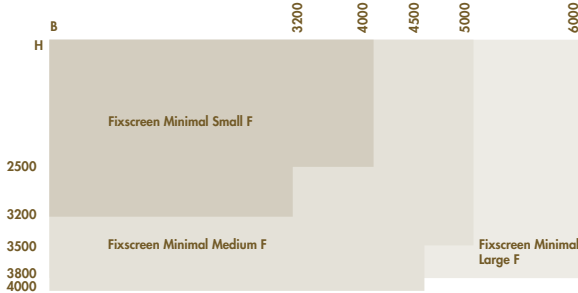
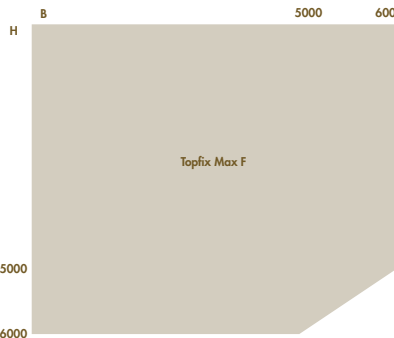
Paul Renson



# RANGE OVERVIEW

Surface-mounted fabric sun protection	Vertical glazing					Vertical glazing		Horizontal glazing		
Window type	Standard glazing or sliding window					Corner window	Curtain wall	Conservatories, skylights, roof windows or Velux Modular Skylight		
Type of sun protection	Fixscreen®		Fixscreen® Minimal			Panovista®	Fixscreen® Minimal Curtain Wall 50			
										
	Standard	Surface-mounted with mounting feet	Solar	Standard	Solar	Standard	Standard		Windproof	Not windproof
	Page 26	Page 30	Page 36	Page 98	Page 102	Page 142	Page 122	Topfix® (VMS)	Page 160	-
Maximum dimensions								Topfix® Max	Page 168	-
								Vegascreen®	-	Page 176
										
Recessed in front of the window	Vertical glazing									
Window type	Vertical glazing or sliding window					Corner window	Curtain wall			
Type of sun protection	Fixscreen®	Fixscreen® Minimal				Panovista® (Max)	Fixscreen® Minimal Curtain Wall 50			
										
	Standard	Standard	Recessed with freestanding coupling guide C.F			Standard	Standard			
	Page 42	Page 108	Page 114			Page 146	Page 122			
Maximum dimensions										

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					
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
	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 m<sup>2</sup>, 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<sub>2</sub>/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.* //

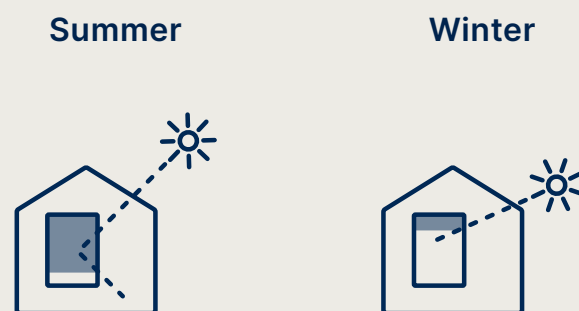
# ENJOY ALL SEASONS

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

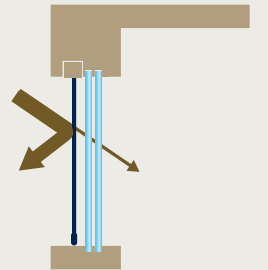
New builds are increasingly well insulated and finished airtight. While that's great for your energy bill, on hot days the sun shines directly on the large windows and quickly makes it unbearably hot inside the house. Once that heat is inside, it becomes nearly impossible to remove it from a well-insulated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



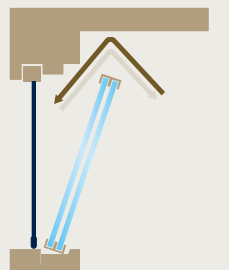
## SUMMER DAYTIME

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.



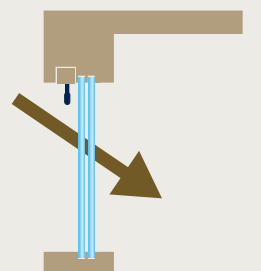
## SUMMER NIGHTTIME

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!



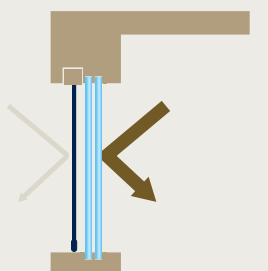
## WINTER DAYTIME

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

INTRO

*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](https://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

Fixscreen®	22
Surface-mounted	24
Recessed in front of the window	40
Recessed on top of the window	50
Recessed on top of the window with acoustics or ventilation	56
Freestanding	72
Ready	84
Fixscreen® Minimal	90
Surface-mounted	96
Recessed in front of the window	106
Curtain wall	118
Freestanding	129
Panovista® (Max)	139

## Horizontal fabric sun protection

Topfix® (Max)	153
Topfix®	156
Topfix® VMS	160
Topfix® Max	168
Topfix® Max Freestanding	172
Vegascreen®	176