

# STRUCTURAL SUN PROTECTION



# OUR MISSION

Creating healthy spaces



Paul Renson

“Renson® specialises in ventilation, sun protection and outdoor. With experience dating back to 1909, and an integrated team of over 1200 employees, we develop systems and solutions which provide consumers with a healthy and comfortable living and working environment, also taking into account energy efficiency and the use of renewable energy. We develop innovative products and systems, and offer total solutions to make every house into a healthy and comfortable home.

“We also appreciate the aesthetic values of every building, allowing our sun control and ventilation systems to be incorporated invisibly into your home. Our patio covers and aluminium blades for covering façades provide clear accents, offering added value to the architecture. Inside, we ensure that doors are integrated invisibly with no conspicuous frames or visible joints.”

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**Discover how Renson® products can optimise the comfort experience while guaranteeing a contemporary design.**

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*“We develop innovative products and systems allowing for aesthetic integration in every building.”*



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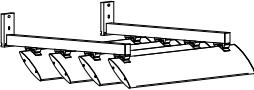
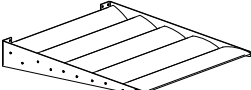
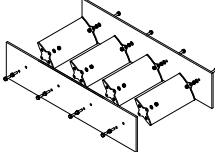
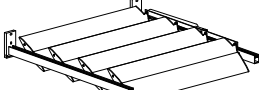
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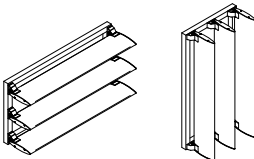
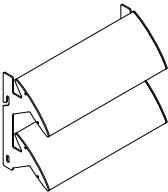
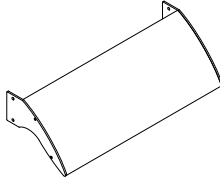
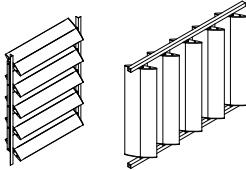
# OVERVIEW

A difference within the range of structural sun protection is made between standard/residential solutions or project solutions. Project solutions are possible with a minimum value of € 20 000 netto.

## Horizontal sun protection

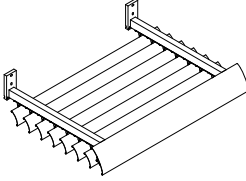
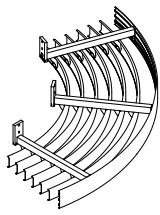
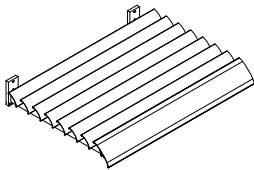
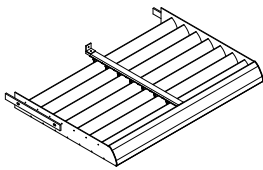
	Icarus				
Purpose	Quickfix® awning with fixed blades	Cassettes, multiple fixed blades	Fixed, single blades	Movable blades	
	Page 38	Page 40	Page 42	Page 44	
					
Standard/residential	-	-	-	-	
Projects	✓	✓	✓	✓	

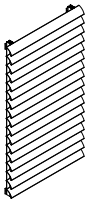
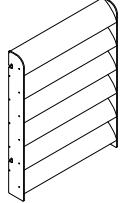
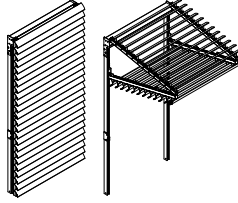
## Vertical sun protection




	Icarus				
Purpose	Quickfix® with horizontal or vertical blades	Cassettes, multiple fixed blades	Fixed, single blades	Movable with horizontal or vertical blades	
	Page 56	Page 58	Page 60	Page 62	
					
Standard/residential	-	-	-	-	
Projects	✓	✓	✓	✓	

## Sliding panels

	Loggiolu				
Purpose	Paro	Privacy	Plano	LG.040 / LG.065 / LG.130 / Patio	
	Page 16	Page 18	Page 20	Pag. 28	
					
Standard/residential	✓	✓	✓	-	
Projects	-	-	-	✓	

Sunclips				
	Blades positioned below	Curved blades positioned below	Blades positioned above	Cassettes
	Page 46	Page 48	Page 50	Page 52
				
	✓	-	-	-
	-	✓	✓	✓

Sunclips		Cilium
Vertical - on mullions	Cassettes	Folding shutters
Page 64	Page 66	Page 70
		
-	-	-
✓	✓	✓

Loggiawood		Loggiascreen	
Paro	Privacy	Canvas	4FIX
Page 22	Page 24	Page 26	Pag. 34
			
✓	✓	✓	-
-	-	-	✓



# WHY SUN PROTECTION?

As trendsetter and pioneer, Renson® is a world player in sun protection. Thanks to exhaustive testing and continuous innovation, the design of our products is optimized time and time again, durability is improved and comfort is raised to a higher level.

## SUN PROTECTION IS NECESSARY

A building or home with large glazed surfaces facing south offers many advantages. During autumn, winter and spring, you enjoy the benefits of the incoming sunlight. But in the summer this can create an uncomfortable indoor climate and irritating light reflections.

Architectural sun protection and screens prevent overheating. They stop the sun's rays before they come into contact with glazed surfaces. Undesired heat and blinding light do not enter the building. This means no blinding or annoying reflections on TV or computer screens. And yet you still retain visual contact with your environment. The view outside is important, and it is respected.

## KYOTO PROTOCOL

Many countries have now signed the Kyoto protocol. With growing awareness, they are now acknowledging the detrimental but not yet irreversible effect man is having on our planet and on the climate in particular. They want to commit themselves to the cause and take corrective measures. If we want to reduce the greenhouse effect, energy consumption must fall.

One major energy-consuming activity is the cooling of buildings. Efficient sun shading can partly and sometimes even fully resolve this issue. It makes additional cooling unnecessary and saves on energy.

Various governments have already agreed on laws in relation to energy consumption and ventilation.

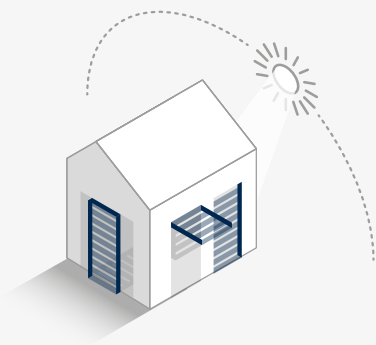
- Belgium: Regelgeving van Energieprestatie & Binnenklimaat (EPB)
- The Netherlands: Energie Prestatie Coëfficiënt (EPC)
- France: Règlement Thermique 2012 (RT2012)
- Germany: Energieeinsparverordnung
- UK:
  - Approved document L1 'Conservation of fuel and power in dwellings'
  - Approved Document L2 'Conservation of fuel and power in buildings other than dwellings'

# ENJOY ALL SEASONS

You enjoy your garden year-round. And, you can also enjoy your sunscreens year-round. Everyone wants an outdoor view and as much natural daylight in their home as possible, while always keeping the indoor climate under control. And that is what sunscreens are for. It is the only way to guarantee indoor comfort both during the hot summer months and the cold winter. Moreover, sunscreens also positively affect your power consumption.

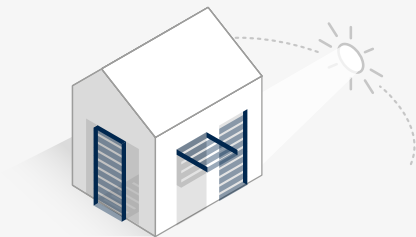
## SUMMER

When the sun is high in the sky, efficient external solar shading is a necessity to prevent the indoors overheating. Using architectural sunscreens reduces the need for power-hungry air conditioning. It also improves indoor comfort without losing sight of your garden.

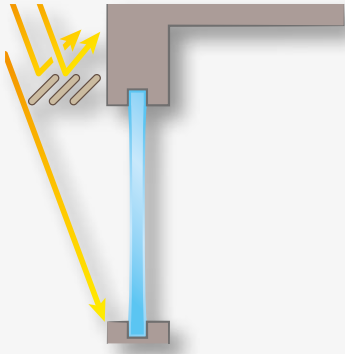


## WINTER

When the sun is low in the sky, it is important to optimally use the benefits of sunlight (warmth and light) to increase comfort and reduce power consumption.

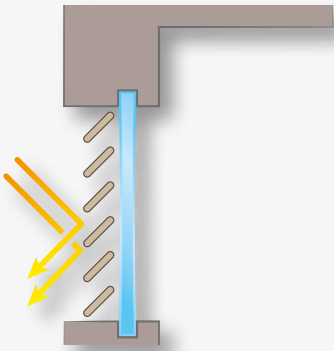




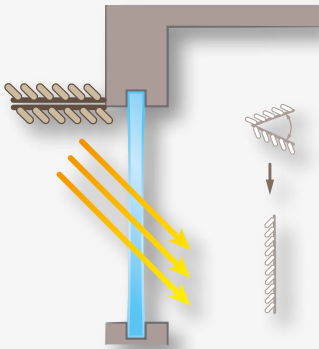


### **An extensive selection of external solar shading**

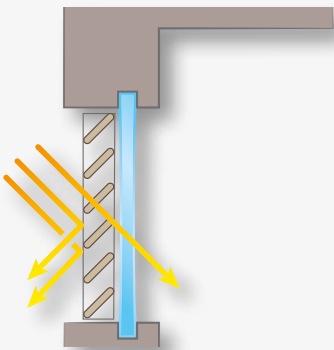
Fixed architectural sun protection with horizontal blades that are mounted on an aluminium support structure. Because the architectural sun protection hangs above the windows, it does not interfere with the view outdoors. The systems also provide good shade when the sun is high in the summer months. When the sun is low during the winter, these allow the pleasant warmth of the sun to enter.



Aluminium blades that are attached vertically in front of the windows onto an anchored support structure on the façade. The size of these installations and the fact that the fixed or movable blades are always in front of the windows do not make these systems suitable for homes. These are frequently used for large building projects. The production of a similar solution requires customisation and the installation must be entrusted to a steel or façade builder.



Shutters are a type of dynamic sunscreen where the blades are movable in front of the window. In the open position, it is horizontal above the window.



As a response to the increasing demand for aesthetic multifunctional façade elements, Renson® has expanded its assortment sliding panels.

The Loggia panels are made of frames containing aluminium blades, wood blades, or screens. The Patio panels are sliding panels where the aluminium blades are screwed in between vertical endcap plates (e.g. Sunclips and Icarus). Multiple types of blades can be used in both systems.

Depending on the desired shading and required transparency, the blades can be positioned at different angles of inclination and staggered at different distances. In addition to this wide selection of sliding panels based on fixed aluminium or wooden sunscreen blades, panels with a screen or adjustable blades are available.

# SLIDING PANELS





# LOGGIALU®

## Sliding panel with fixed parallelogram-shaped aluminium blades

SLIDING PANEL

LOGGIALU



### INTRODUCTION

Loggialu combines the functionality of an efficient sun protection panel with the elegant appearance and aesthetic design of a high-quality modern concept. The frame ensures its stability, whilst the aluminium blades are incorporated into the side channels discreet and without visible fixing.

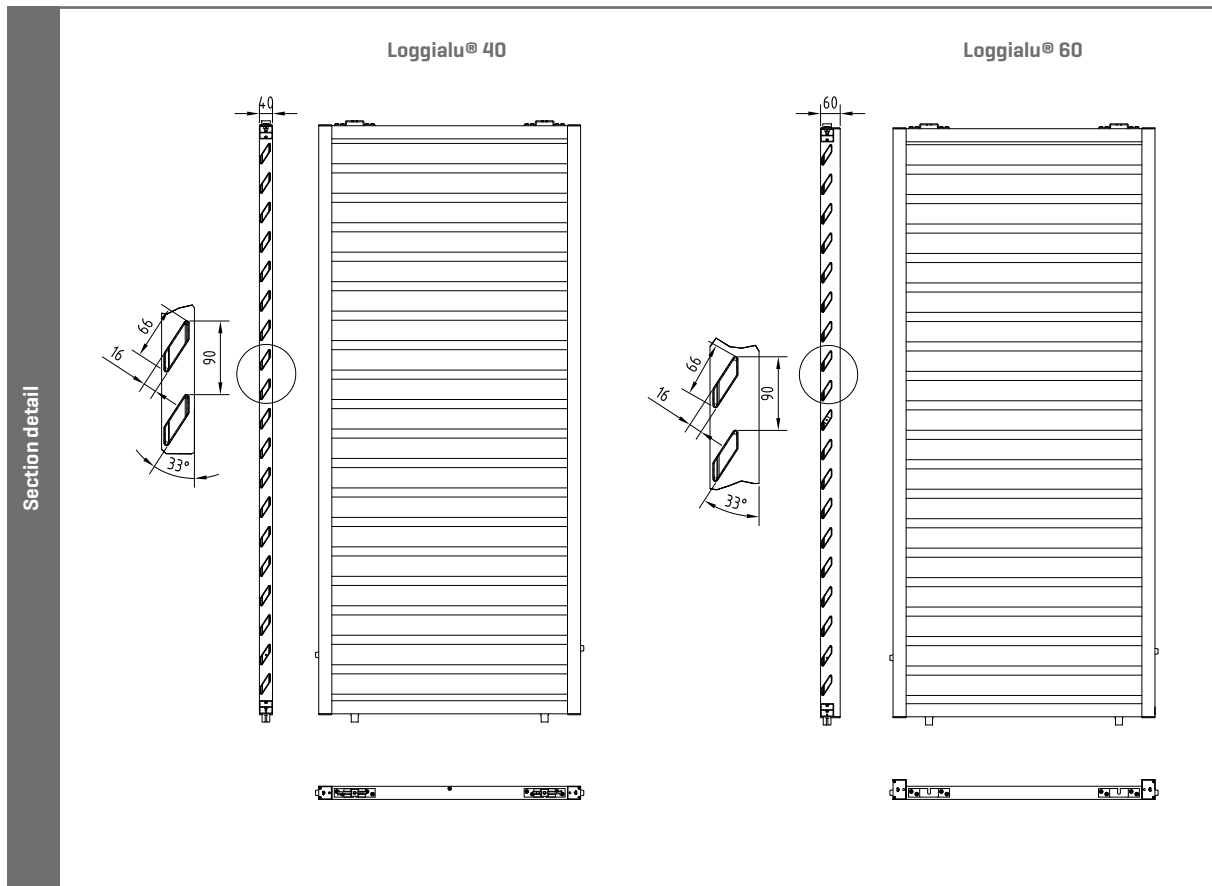
### PRODUCT

- Efficient sun protection with maximum light and comfortable viewing
- Similar view of the element from inside and outside
- Finished panels without visible fixing elements
- Panel in extruded aluminium with anodised or powder coated finish
- Low maintenance:
  - High quality and maintenance-free slide fittings
  - Powder-coated or anodised aluminium finish, easy to clean
- Suitable as sliding or fixed panel
- Sliding systems:
  - Easy sliding
  - Symmetrical sliding
  - Telescopic sliding [Loggialu 40]
  - Manual or motorised
- Sizes are depending on the local wind load and regional legislation
- Loggialu is available pre-assembled [custom manufacturing] or for self-assembly as a modular design [stock lengths, accessories and parts]

### TECHNICAL SPECIFICATIONS

- Aluminium components
  - Aluminium extrusion, alloy EN AW-6063 T66
  - Anodised [20 micron] F1
  - Polyester powder coating RAL or Syntha Pulvin colours [60-80 µ / 40 µ [UK]
- Blades
  - Blade pitch : 90 mm
  - Depth : 30 mm
  - Inclination : 33°
  - Extreme angle of sunlight AS: 46°
  - Perpendicular visual opening OV: 31%
  - Maximum free span of the blade: 1500 mm  
Larger panel widths [> 1500 mm] are possible with spacers.
- CE markings approved
- Frames
  - Standard 40:  
Frame with a depth of 40 mm, suitable for normal panel dimensions [maximum panel height 3000 mm] and wind loads.
  - **Project solution 60:**  
Frame with a depth of 60 mm, suitable for normal panel dimensions [maximum panel height 3500 mm] and wind loads.
- Depending on the height of the sliding panel, the horizontal frame profile [above and/or below] can be 70 mm high instead of 40 mm

## TECHNICAL DRAWINGS



### OVERVIEW OF POSSIBLE PANEL HEIGHTS “H” BASED ON WIND LOAD QB AND PANEL WIDTH “W”:

Frame	Wind load qb in Pa	Typical panel widths “W” in mm		
		800	1200	1500
<b>Standard 40</b>	600	3000	2730	2580
	800	2800	2540	2400
	1200	2540	2300	2170 *
<b>Project solutions 60</b>	600	3500	3500	3500
	800	3500	3450	3270
	1200	3450	3120	2950 *

\* With spacer.

In consultation with our project team for detailed or larger panel dimensions.  
Basic wind load qb in accordance with norm ENV 1991-2-4[1995].

### OPTIONS

- Flexible lower guiding system: Flexguide [see ‘Accessoires’]

# LOGGIALU® PRIVACY

Sliding panel with movable aluminium blades

SLIDING PANEL

LOGGIALU

PRIVACY



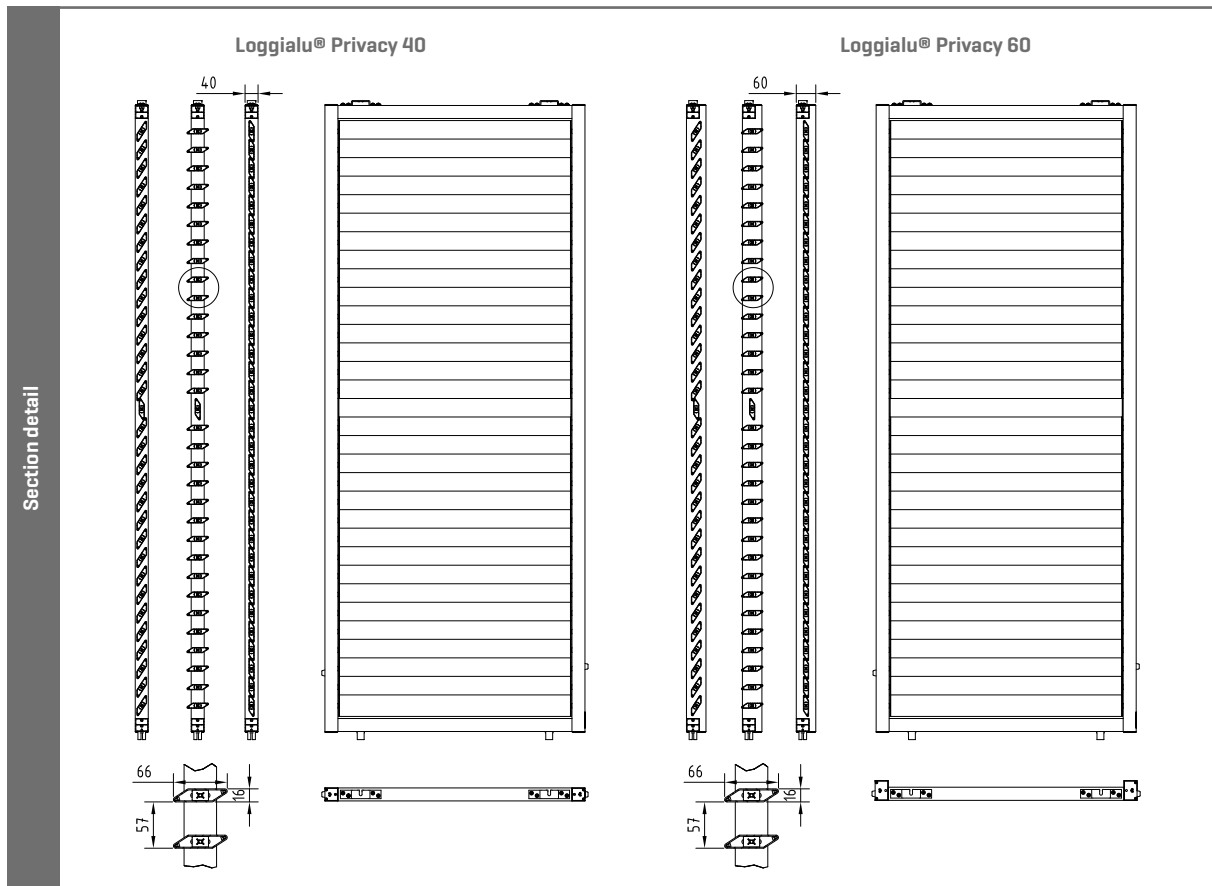
## INTRODUCTION

Loggialu Privacy combines the functionality of an efficient sun protection panel with the elegant appearance and aesthetic design of a high-quality modern concept. The blades are moveable with the "Privacy" concept, so they can be manually tilted from a closed to a completely open position or vice versa. The secure surrounding frame of extruded aluminium ensures good shape retention of the whole without visible fixations in the corners.

## PRODUCT

- Blades suitable for manual tilting from closed to open position or vice versa and divided into two operating areas, which allows, for example, the blades to be in an open position above and closed below
- Aesthetically finished panels without visible fixing elements
- Frame and blades in extruded aluminium with anodised or powder coated finish
- Pre-assembled and ready to install, custom manufacture
- Low maintenance:
  - High quality and maintenance-free slide fittings
  - Powder-coated or anodised aluminium finish, easy to clean
- Suitable as sliding or fixed panel
- Sliding systems:
  - Easy sliding
  - Symmetrical sliding
  - Telescopic sliding [Loggialu 40 Privacy]
- Sliding panel manually operated or motorised
- Sizes are depending on the local wind load and regional legislation

## TECHNICAL DRAWINGS



## TECHNICAL SPECIFICATIONS

- Aluminium components
  - Aluminium extrusion, alloy EN AW-6063 T66
  - Anodised [20 micron] F1
  - Polyester powder coating RAL or Syntha Pulvin colours [60-80 µ / 40 µ [UK]]
- Blades
  - Blade pitch : 57 mm
  - Blade inclination: 147°
  - Size of the blade: 65 x 16 mm
  - Maximum free span of the blade: 1.500mm
- CE markings approved
- Frames
  - Standard 40 Privacy:
    - Frame with a depth of 40 mm, suitable for normal panel dimensions [maximum panel height 3000 mm] and wind loads.
  - Project solution 60 Privacy:
    - Frame with a depth of 60 mm, suitable for normal panel dimensions [maximum panel height 3500 mm] and wind loads.
- Depending on the height of the sliding panel, the horizontal frame profile on top can be 55 mm instead of 40 mm and 55 or 70 mm below instead of 40 mm high.

## OPTIONS

- Flexible lower guiding system Flexguide [see 'Accessoires']

# LOGGIALU® PLANO

Sliding panel with fixed rectangular aluminium blades

SLIDING PANEL

LOGGIALU

PLANO



## INTRODUCTION

Loggialu Plano combines the functionality of an efficient sunshade with the elegant appearance and aesthetic design of a high-value contemporary concept. The firmly encircling framework guarantees good retention of shape for the entire unit, while the fine, perpendicular aluminium louvres are incorporated discreetly and without visible attachment into the vertical side profiles of the framework.

## PRODUCT

- Efficient sun protection during maximum light entry and a comfortable view
- Identical appearance of the element both inside and outside
- Finished panels without visible connecting elements
- Panel in extruded aluminium with anodised or powder-coated finish
- Low maintenance:
  - High-value and low maintenance sliding hardware
  - Powder-coated or anodised aluminium, easy to clean
- Suitable as sliding panel or fixed panel
- Sliding systems: Simple, symmetrical, telescopically sliding [Loggialu 40], manual or motor-driven
- Possible dimensions depend on the local wind force and regional regulations [\*]
- Loggialu Plano is delivered ready for installation [custom production].

[\*] In consultation with our project team

## TECHNICAL SPECIFICATIONS

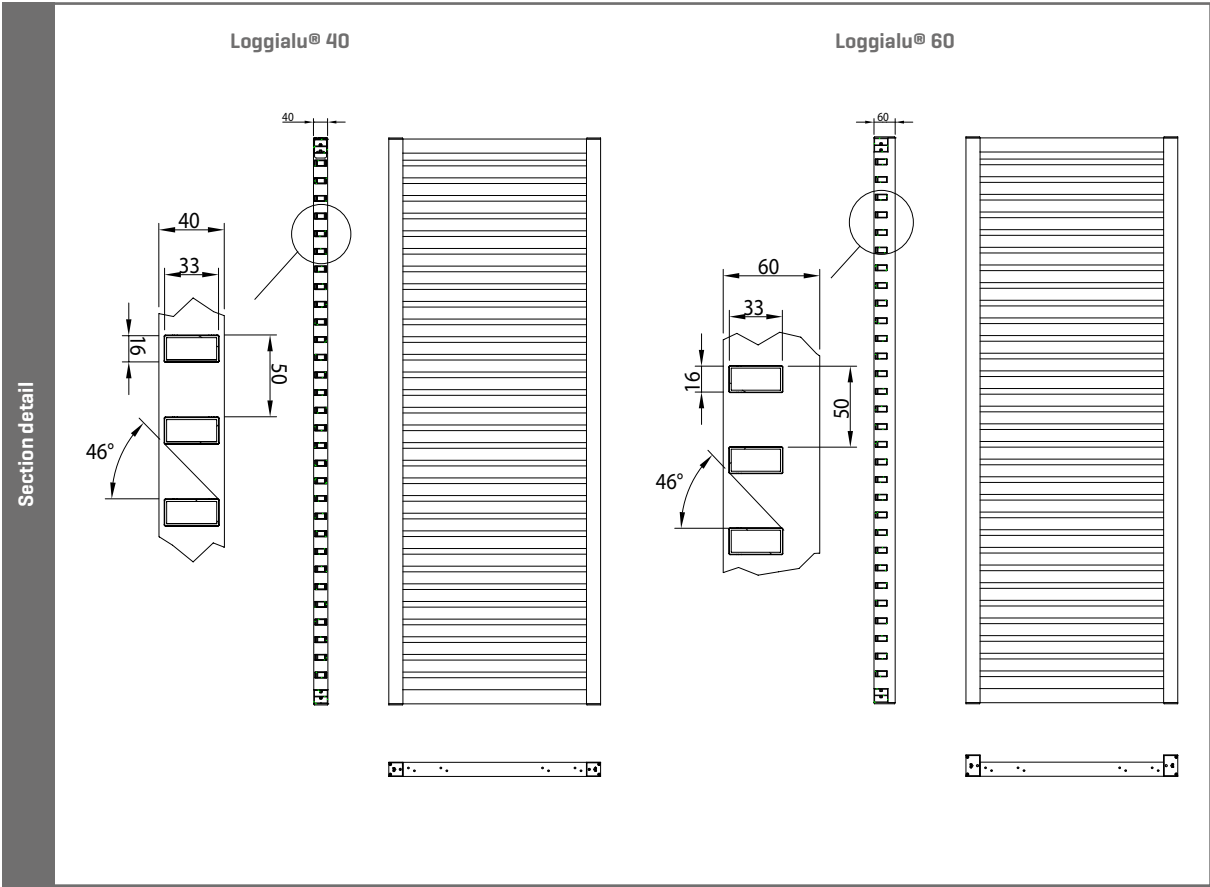
- Aluminium components:
  - Aluminium extrusion, EN AW-6063 T66 alloy
  - Anodised [20 micron] F1
  - Polyester powder-coat paint [60-80 micron] in RAL colours
- Louvres
  - Step: 50 mm
  - Depth: 33 mm
  - Height: 16 mm
  - Outermost angle of direct sun entry AS: 46°
  - Perpendicular visual opening OV: 32 %
  - Maximum possible unsupported span for the louvre: 1,200 mm
- CE certified sliding panels
- Frames
  - Standard 40: Frame with a depth of 40 mm. Suitable for normal dimensions [maximum panel height 3000 mm] and wind forces.
  - **Project solution 60:** Frame with a depth of 60 mm. Suitable for larger dimensions [maximum panel height 3500 mm] and higher wind forces.
- Depending on the height of the sliding panel, the horizontal framework profile [upper and/or lower] is 70 mm high instead of 40 mm.

## OPTIONS

- Flexguide flexible lower guide [see 'Accessoires']



TECHNICAL DRAWINGS



# LOGGIAWOOD®

## Sliding panel with fixed wooden blades

SLIDING PANEL

LOGGIAWOOD



### INTRODUCTION

LoggiaWood combines the quality of aluminium and the naturalness of wood in an efficient, aesthetic contemporary system. The solid extruded aluminium frame ensures the panel retains its shape, with the wooden blades providing a very natural and elegant look.

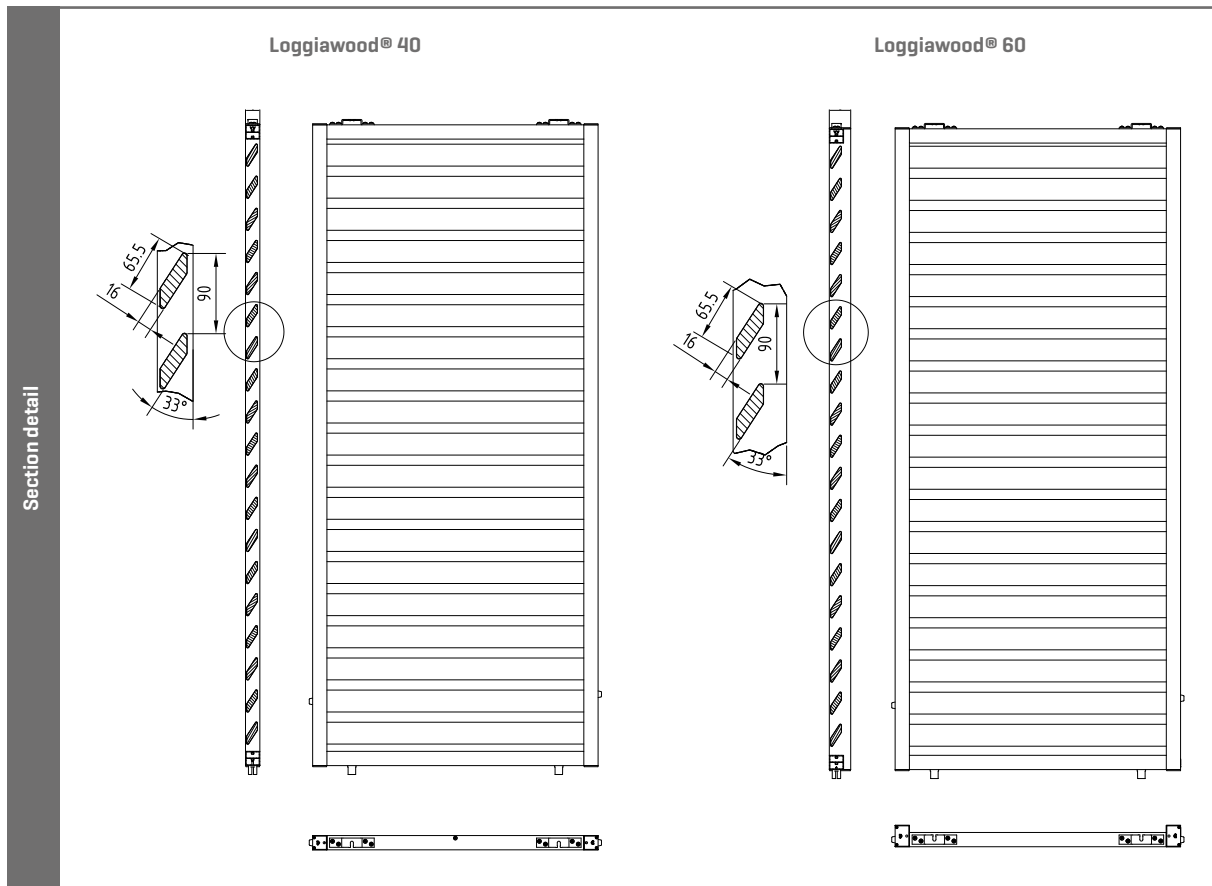
### PRODUCT

- Efficient sun protection with maximum light and comfortable viewing
- Similar view of the element from inside and outside
- Finished panels without visible fixing elements
- Panel in extruded aluminium with anodised or powder coated finish
- Low maintenance:
  - High quality and maintenance-free slide fittings
  - Powder-coated or anodised aluminium finish, easy to clean
- Suitable as sliding or fixed panel
- Sliding systems:
  - Easy sliding
  - Symmetrical sliding
  - Telescopic sliding (Loggialu 40)
  - Manual or motorised
- Sizes depending on the local wind load and regional legislation
- Loggialu is available pre-assembled [custom manufacturing] or for self-assembly as a modular design [stock lengths, accessories and parts]

### TECHNICAL SPECIFICATIONS

- Aluminium components
  - Aluminium extrusion, alloy EN AW-6063 T66
  - Anodised [20 micron] F1
  - Polyester powder coating RAL or Syntha Pulvin colours [60-80 µ / 40 µ [UK]]
- Wooden blades
  - WR Cedar Clear n 2
  - Untreated, for natural aging
  - Blade pitch: 90 mm
  - Depth: 30 mm
  - Inclination: 33°
  - Extreme angle of sunlight AS: 46°
  - Perpendicular visual opening OV: 31%
  - Maximum possible free span of the blade: 1.200 mm  
Larger panel widths [> 1.200 mm] are possible using spacers.
- CE markings approved
- Frames
  - Standard 40:  
Frame with a depth of 40 mm, suitable for normal panel dimensions [maximum panel height 3000 mm] and wind loads.
  - **Project solution 60:**  
Frame with a depth of 60 mm, suitable for normal panel dimensions [maximum panel height 3500 mm] and wind loads.
- Depending on the height of the sliding panel, the horizontal frame profile [above and/or below] can be 70 mm high instead of 40 mm

## TECHNICAL DRAWINGS



### OVERVIEW OF POSSIBLE PANEL HEIGHTS “H” BASED ON WIND LOAD QB AND PANEL WIDTH “W”:

Frame	Wind load qb in Pa	Typical panel widths “W” in mm		
		800	1200	1500
<b>Standard 40</b>	600	3000	2740	2590 *
	800	2820	2550	2410 *
	1200	2550	2300	2180 *
<b>Project solutions 60</b>	600	3500	3500	3500 *
	800	3500	3460	3280 *
	1200	3460	3130	2960 *

\* With spacer.

In consultation with our project team for detailed or larger panel dimensions.  
Basic wind load qb in accordance with norm ENV 1991-2-4[1995].

### OPTIONS

- Flexible lower guiding system Flexguide [see ‘Accessoires’]

# LOGGIAWOOD® PRIVACY

Sliding panel with movable wooden blades

SLIDING PANEL

LOGGIAWOOD

PRIVACY



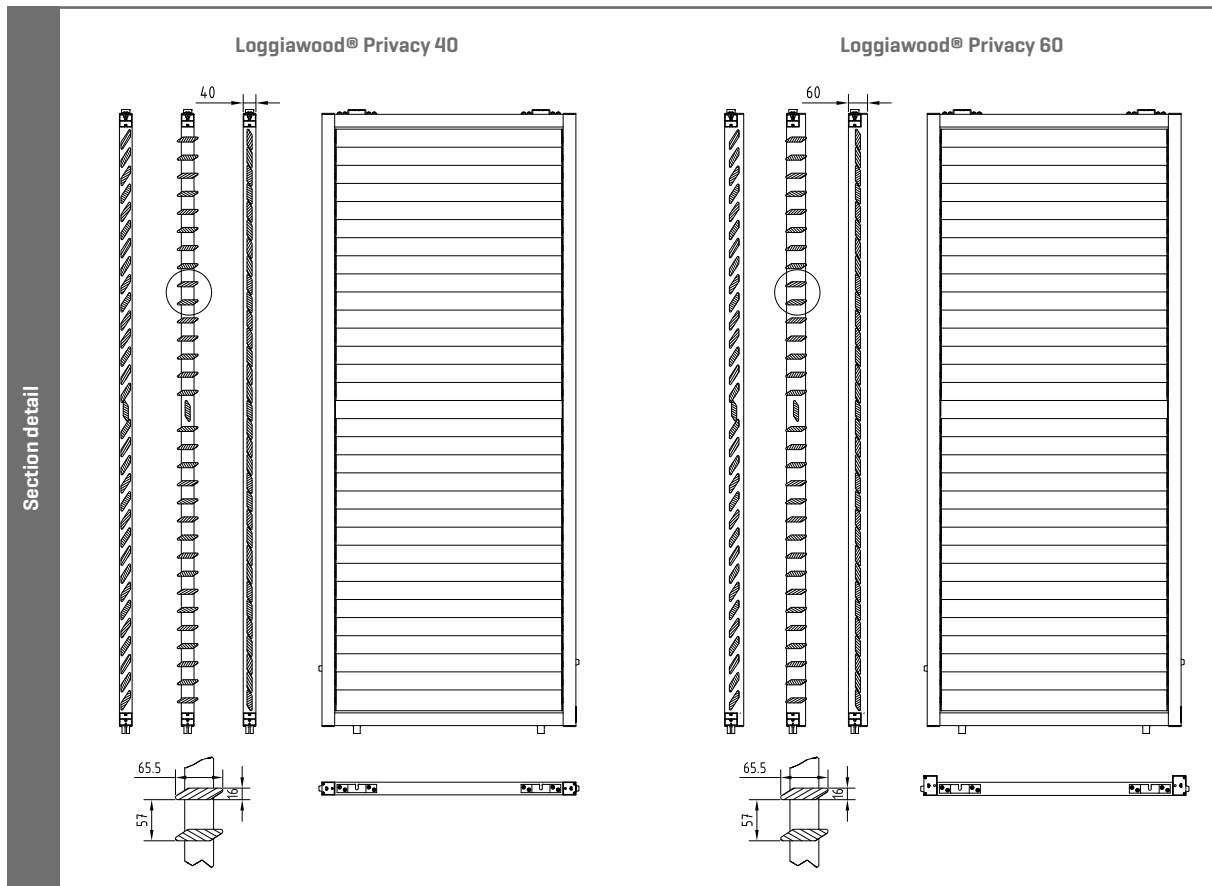
## INTRODUCTION

Loggiawood Privacy combines the quality of aluminium and the natural aspect of wood in an aesthetic and efficient modern concept. The blades are moveable with the "Privacy" concept, so they can be manually tilted from a closed to a completely open position or vice versa. The frame of extruded aluminium ensures its stability, whilst the wooden blades on the panel provide a very natural and elegant appearance.

## PRODUCT

- Blades suitable for manual tilting from closed to open position or vice versa and divided into two operating areas, which allows, for example, the blades to be in an open position above and closed below
- Aesthetically finished panels without visible fixing elements
- Frame in extruded aluminium with anodised or powder coated finish
- Pre-assembled and ready to install, custom manufacture
- Low maintenance:
  - High-quality wood, suitable for natural aging
  - High-quality and maintenance-free slide fittings
  - Powder-coated or anodised aluminium finish, easy to clean
- Suitable as sliding or fixed panel
- Sliding systems:
  - Easy sliding
  - Symmetrical sliding
  - Telescopic sliding [Loggiawood 40 Privacy]
- Sliding panel can be manually operated or motorised
- Sizes are depending on the local wind load and regional legislation

## TECHNICAL DRAWINGS



## TECHNICAL SPECIFICATIONS

- Aluminium components
  - Aluminium extrusion, alloy EN AW-6063 T66
  - Anodised [20 micron] F1
  - Polyester powder coating RAL or Syntha Pulvin colours [60-80  $\mu$  / 40  $\mu$  [UK]]
- Wooden blades
  - WR Cedar Clear n 2
  - Untreated, for natural aging
  - Blade pitch : 57 mm
  - Blade inclination: 147°
  - Size of the blade: 65 x 16 mm
  - Maximum free span of the blade: 1.200 mm
- CE markings approved
- Frames
  - Standard 40 Privacy:
    - Frame with a depth of 40 mm, suitable for normal panel dimensions [maximum panel height 3000 mm] and wind loads.
  - **Project solution 60 Privacy:**
    - Frame with a depth of 60 mm, suitable for normal panel dimensions [maximum panel height 3500 mm] and wind loads.
- Depending on the height of the sliding panel, the horizontal frame profile above can be 55 mm instead of 40 mm and 55 or 70 mm below instead of 40 mm high.

## OPTIONS

- Flexible lower guiding system Flexguide [see 'Accessoires']

# LOGGIASCREEN® CANVAS

Sliding panel with screen fabric

SLIDING PANEL

LOGGIASCREEN

CANVAS



## INTRODUCTION

Loggiascreen Canvas is a sliding panel with a contemporary design, which combines the characteristics of different materials. For efficient management of light and heat penetration, a high performant sun protection screen is clamped around a firm aluminium frame. A minimalistic look is obtained thanks to the invisible frame.

## PRODUCT

- Efficient sun protection
- Finished panels without visible connecting elements
- Panel in extruded aluminium with anodised or powder-coated finish
- Screen made of prestressed coated polyester fabric (Soltis) or glass fibre (Sergé)
- Low maintenance:
  - High-value and low maintenance sliding hardware
  - Powder-coated or anodised aluminium, easy to clean
- Suitable as sliding panel or fixed panel
- Sliding systems: Simple, symmetrical, telescopically sliding (Loggialu Plano 0140), manual or motor-driven
- Possible dimensions depend on the local wind force and regional regulations [\*]. Maximum panel height 3000 mm.
- Loggiascreen Canvas is delivered ready for installation (custom production).
- CE certified sliding panels
- Frame 40 x 55 mm

[\*] In consultation with our project team.

## TECHNICAL SPECIFICATIONS

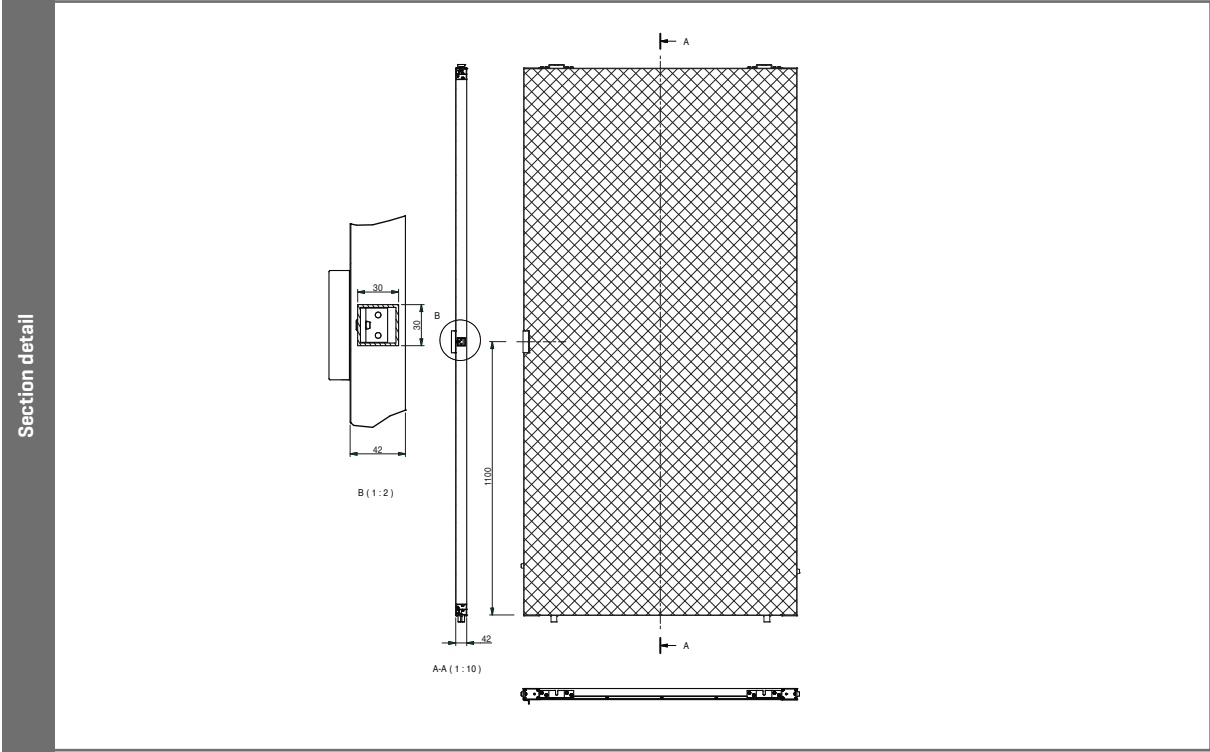
Aluminium components:

- Anodised (20 micron) F1
- Polyester powder-coat paint (60-80 micron) in RAL colours
- Aluminium extrusion, EN AW-6063 T66 alloy
- Screen fabric based on prestressed coated polyester fabric (Soltis 86) or glass fibre (Sergé), available in a wide range of colours

## OPTIONS

- Flexible lower guiding system Flexguide (see 'Accessoires')
- Aluminium handle

TECHNICAL DRAWINGS



# LG.040 + LG.065

PROJECT SOLUTION

Aluminium sliding panels for project solutions

SLIDING PANEL

LOGGIALU

LG.040  
LG.065



## INTRODUCTION

Loggialu LG.040 and LG.065 are systems with a slim frame that goes all the way around and serve to control the solar heat and natural daylight. The fittings for these sliding panels consist of fixed blades of extruded aluminium, clipped into the system using the appropriate blade holders.

## NORMAL MAXIMUM DIMENSIONS:

Blade type	Wind load qb in Pa	Typical dimension L x H (mm x mm)
LG.040 + L.066.21	650	1100 x 2500
	800	900 x 2500
	1250	800 x 2240
LG.065 + L.066.01	650	1000 x 3220
	800	1000 x 3010
	1250	800 x 2790

*In consultation with our project team for detailed or larger panel dimensions.  
Basic wind load qb in accordance with norm ENV 1991-2-4(1995).*

## TECHNICAL

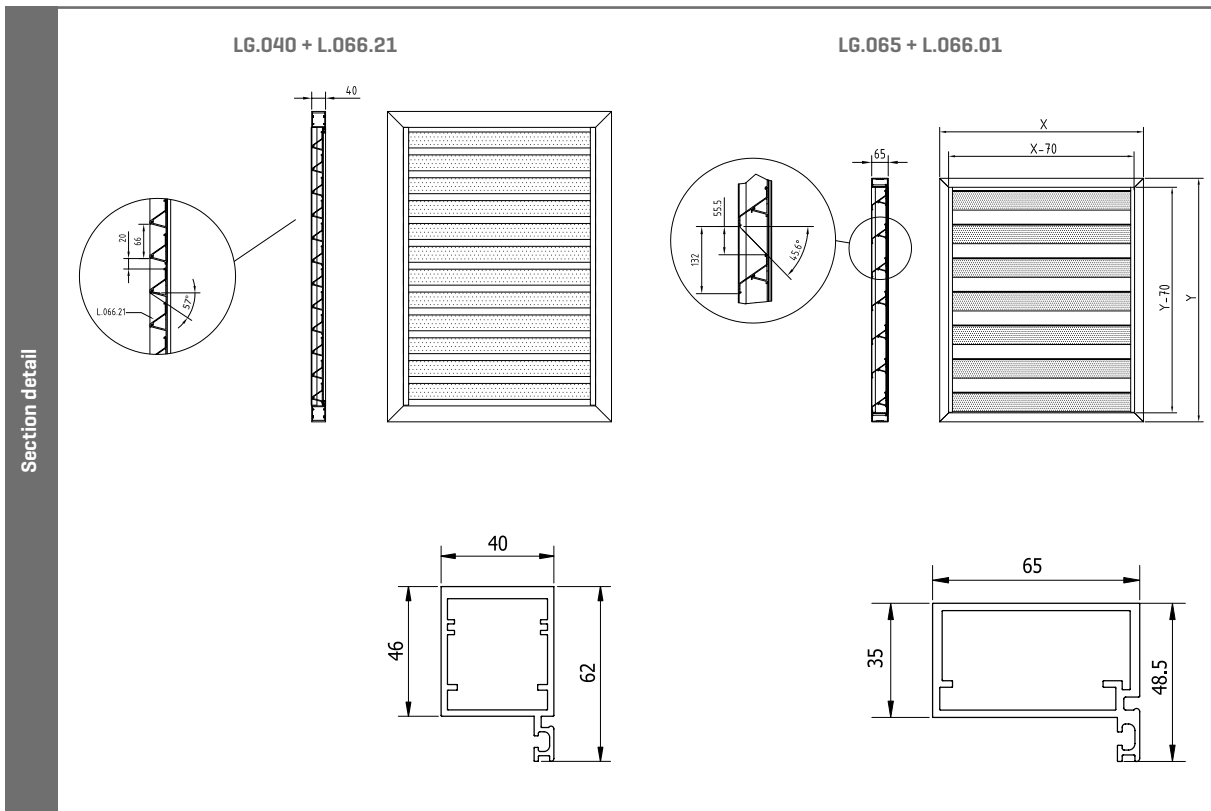
- **LG.040 + L.066.21**  
Perpendicular visual opening OV: 30,3 %  
Limited angle of sunray incidence AS: 33°  
Blade pitch: 66 mm
- **LG.065 + L.066.01**  
Perpendicular visual opening OV: 42 %  
Limited angle of sunray incidence AS: 45°  
Blade pitch: 132 mm

## SURFACE TREATMENT

- Anodised (20 micron)
- Polyester powder-coated RAL or Syntha Pulvin colours (60 - 80 µ / 40 µ [UK])



# TECHNICAL DRAWINGS



Lagja® LG.065 met L.066.01, Keppenkouter, Kantoren, Erembodegem [BE]

# LG.130

PROJECT SOLUTION

## Aluminium sliding panels for project solutions

- SLIDING PANEL
- LOGGIALU
- LG.130



### INTRODUCTION

Loggia LG.130 frames are extra rigid, designed to meet the requirements for sun protection panels up to 6,000 mm in height. The local wind pressure bearing on the system and the type of blade to be fitted are always taken into account. LG.130 type frames can be fitted with different types of blades: ICA.125, ICA.150, ICP.150 and SE.130. The blades can be positioned at different inclinations and at different intervals. The following table suggests twenty different possibilities. Other configurations are possible on request.

To manage solar heat and natural daylight even more effectively, Renson® has developed the Loggialu LG.130 with manually **moving blades ICA.125**. This system allows not only the panel to be put in the desired position, but the blades can also be rotated into their ideal position. The angle of the blades depends on the position of the sun or the desired sun shading.

### SURFACE TREATMENT

- Anodised [20 microns]
- Polyester powder-coated RAL or Syntha Pulvin colours [60 - 80 µ / 40 µ [UK]]

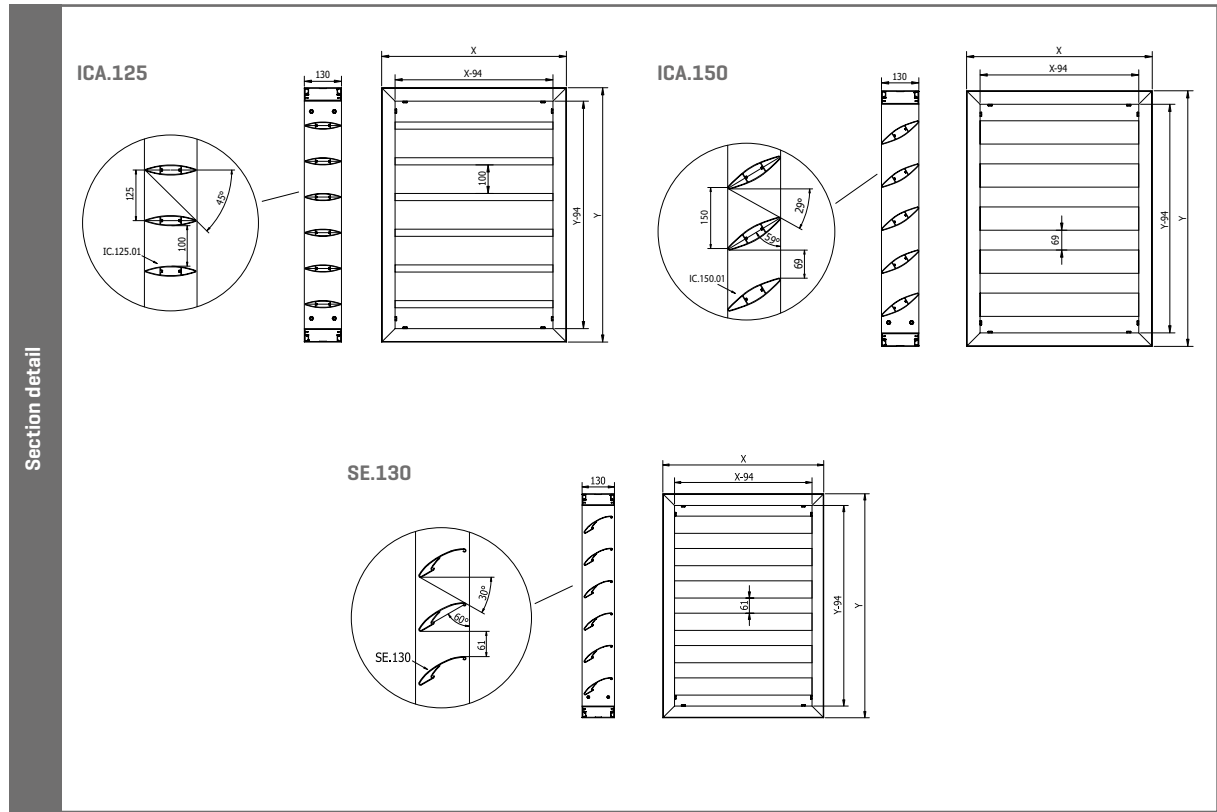
### TECHNICAL SPECIFICATIONS

- Aluminium extrusion, alloy EN AW-6063 T66
- Anodised [20 micron] F1
- Polyester powder-coated RAL or Syntha Pulvin colours [60-80 µ / 40 µ [UK]]
- Made-to-measure
- Sliding panel operated manually or motorised
- Manual tilting blades
- Blades adjustable in 15° increments [7 positions]
- Maximum dimensions to be checked on request

Blade type	Angle [°]	Blade pitch [mm]	AS [°]	OV [%]
ICA.125	90	125	45	80,0
ICA.125	75	125	37	70,8
ICA.125	75	150	44	75,7
ICA.125	60	125	30	48,4
ICA.125	60	150	39	57,0
ICA.125	60	175	46	63,1
ICA.125	45	125	22	28,3
ICA.125	45	150	35	40,3
ICA.125	45	175	44	48,8
ICA.150	59	150	29	46,0
ICA.150	59	200	44	59,5
ICA.150	45	150	22	27,8
ICA.150	45	200	42	45,9
SE.130	60	130	30	46,8
SE.130	60	160	40	56,8
SE.130	45	130	22	27,5
SE.130	45	160	37	41,1
SE.130	45	190	47	50,4

AS: Limit angle of sunray incidence · OV: Perpendicular visual opening

# TECHNICAL DRAWINGS



# PATIO

PROJECT SOLUTION

Aluminium sliding panels for project solutions. Slim frame.

SLIDING PANEL

PATIO



## INTRODUCTION

Sunclips and Icarus Patio are sliding panels consisting of sun protection blades screwed between 2 flat vertical profiles. This assembly principle is the basis of this product's great flexibility: different types of blades can be installed at different intervals or at different angles. Patio sliding panels are notable for the elegant design of the vertical profiles. The maximum panel dimensions depend on the selected profiles and the local wind pressure bearing on the system.

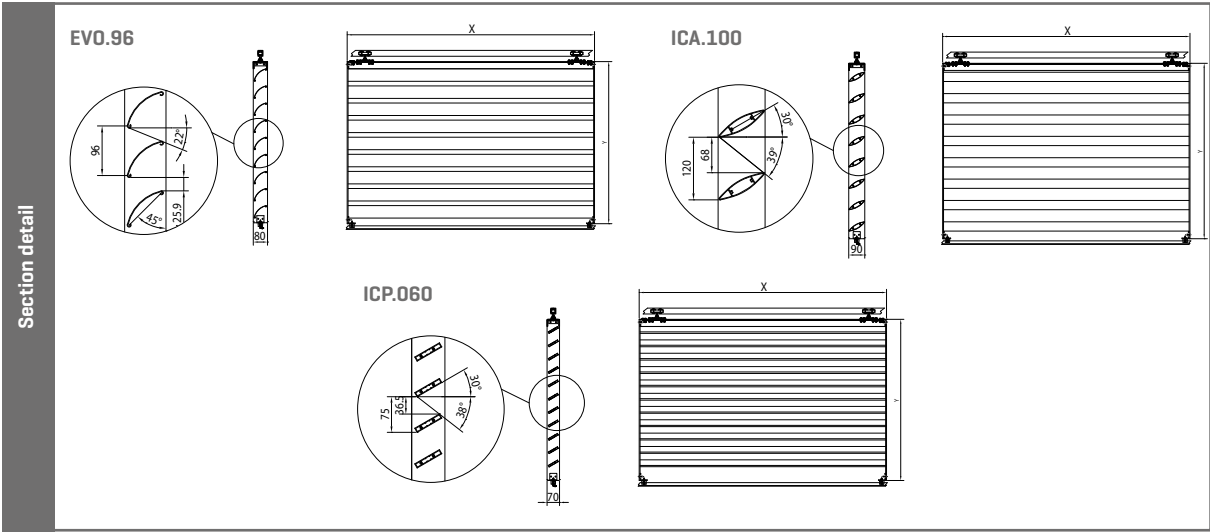
## SURFACE TREATMENT

- Anodised [20 microns]
- Polyester powder-coated RAL or Syntha Pulvin colours [60 - 80 µ / 40 µ [UK]]

Blade type	Angle [°]	Blade pitch [mm]	AS [°]	OV [%]
EVO.96	45	96	22	27
EVO.96	45	115	35	39
EVO.96	45	135	45	48
EVO.130	45	130	22	28
EVO.130	45	160	36	41
EVO.130	45	190	47	50
ICA.100	0	100	45	77
ICA.100	0	120	50	81
ICA.100	15	100	37	70
ICA.100	15	120	44	75
ICA.100	30	100	30	48
ICA.100	30	120	39	57
ICA.100	30	140	46	63
ICA.100	45	120	22	28
ICA.100	45	120	35	40
ICA.100	45	140	44	49
ICA.125	0	125	45	80
ICA.125	0	150	50	83
ICA.125	15	125	37	71
ICA.125	15	150	44	76
ICA.125	30	125	30	48
ICA.125	30	150	39	57
ICA.125	30	175	46	63
ICA.125	45	125	22	24
ICA.125	45	150	35	40
ICA.125	45	175	45	49

AS: Limit angle of sunray incidence · OV: Perpendicular visual opening

TECHNICAL DRAWINGS



# LOGGIASCREEN® 4FIX

PROJECT SOLUTION

Sliding panel with screen fabric for project solutions

SLIDING PANEL

LOGGIASCREEN

4FIX



## INTRODUCTION

Loggiascreen 4Fix combines the characteristics of different materials and systems in a solution distinguished by its elegance, flexibility and efficiency. Double the attraction – the fabric is attached on all four sides and is held under permanent tension by an integrated system into the top and bottom frames. Loggiascreen 4Fix is a system of panels (sliding or fixed) containing a taught fabric, which allows you to control light and heat penetration by changing the position of the panels to suit your needs. Loggiascreen 4Fix can also be used to provide privacy and protection from the wind.

## TECHNICAL SPECIFICATIONS

- Extruded aluminium frame, anodised or powder-coated
- Solid structure for high wind resistance
- Integrated system for attaching the fabric on all sides
- Permanent fabric tension
- Factory-assembled and delivered ready-to-fit, made to measure
- High-quality, maintenance-free sliding fittings
- Screen made of prestressed coated polyester fabric (Soltis) or glass fibre
- Motorised or manual sliding panels
- Dimensions depending on the local and regional legislation and the wind load [\*].  
Maximum panel height: 3000 mm.

## MATERIAL

- Aluminium extrusion, EN AW-6063 T66 alloy
- Screen fabric based on prestressed coated polyester fabric (Soltis 86) - available in a wide range of colours. Other types of fabric available on request.

## SURFACE TREATMENT

Aluminium parts:

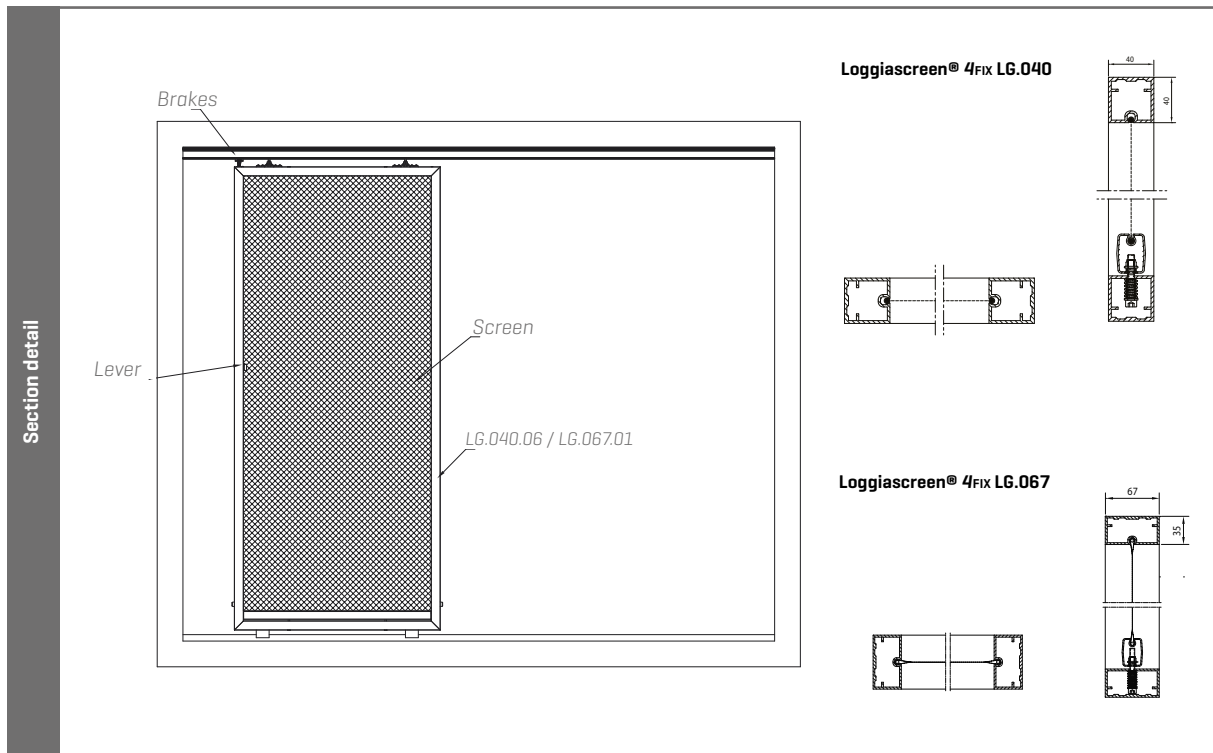
- Anodised [20 microns]
- Polyester powder-coated RAL or Syntha Pulvin colours (60 - 80 µ / 40 µ [UK])

## FRAMES

- Loggiascreen 4Fix LG.040: Frame having a depth of 40mm, suitable for normal panel dimensions and wind loads.
- Loggiascreen 4Fix LG.067: Frame having a depth of 67mm, suitable for larger panel sizes and higher wind loads.

[\*] To be determined per project in conjunction with our project team.

## TECHNICAL DRAWINGS



# ACCESSORIES SLIDING PANELS

Sliding systems

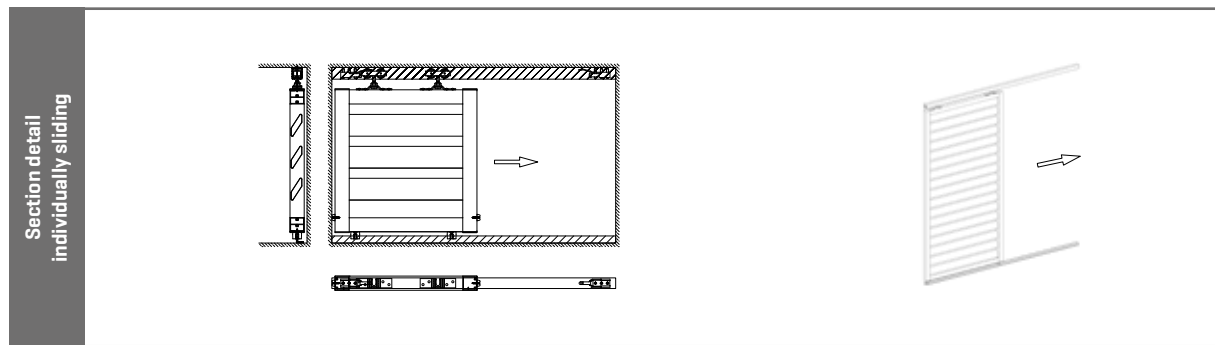




Depending on the situation and user preferences, different sliding systems can be selected:

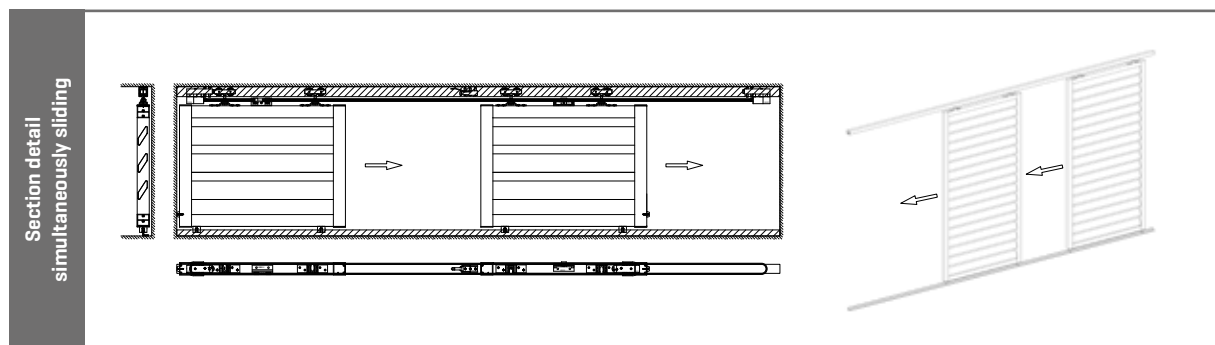
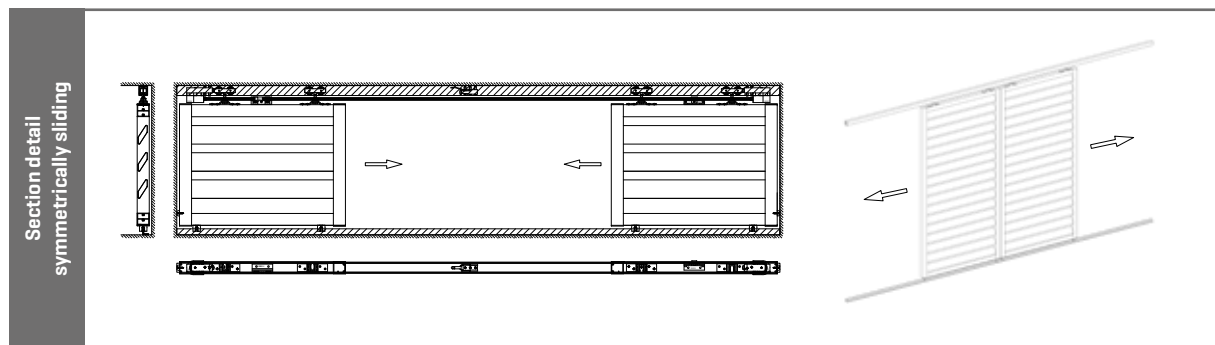
## INDIVIDUALLY SLIDING

For this application, the panels are controlled individually. Each panel can be placed in its desired position without affecting the other panels.



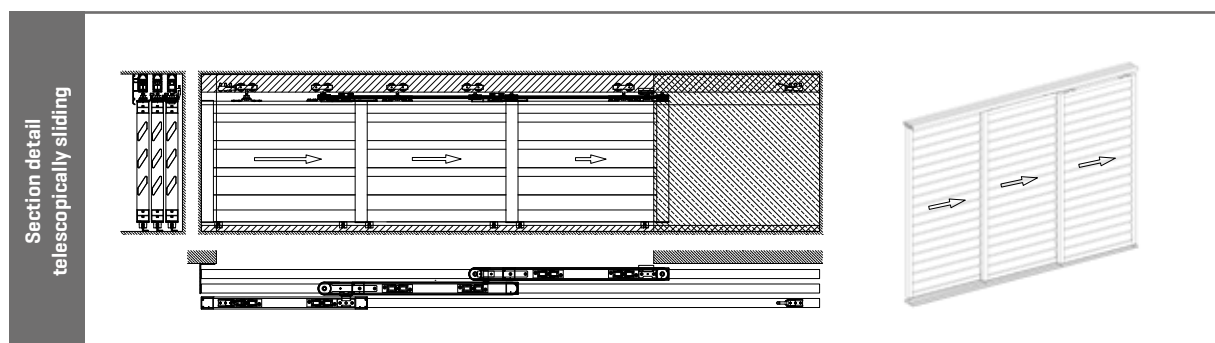
## SYMMETRICALLY / SIMULTANEOUSLY SLIDING

This system consists of pairs of mutually interconnected panels. The panels are connected in order to move symmetrically in relation to one another.



## TELESCOPICALLY SLIDING

For applications requiring wider window surfaces to be shaded in one go, telescopically connected panels are a suitable option. In this system, two or more panels are telescopically interconnected so that, if controlled, they telescopically slide out or behind one another. Each panel moves in a different rail and, in open position, they are neatly "parked" behind one another.



# ACCESSORIES SLIDING PANELS

Flexguide®

LOWER  
GUIDING  
SYSTEM

SELF  
REGULATING



## INTRODUCTION

Flexguide by Renson® is a patented, flexible lower guiding system that can compensate for level differences of up to 50 mm. This flexible lower guiding system automatically adjusts itself in situations with drainage slopes or uneven surfaces due to construction faults or temporary loads due to the spring tension, so that it is not necessary to thicken or double up the lower guiding system profile.

The lower guiding system is simply anchored to the surface, just as if it were a flat surface. The spring-loaded pin in the Flexguide continuously maintains contact with this lower guiding system, even on a sloping or irregular surface.

## USES

- Sloping surfaces such as terrace coverings with drainage slope
- Between 2 levels such as ceiling and floor with possible constructional faults
- Applicable in all standard sliding panels:  
Loggialu (Privacy), Loggialu Plano, Loggiawood (Privacy), Loggiascreen Canvas

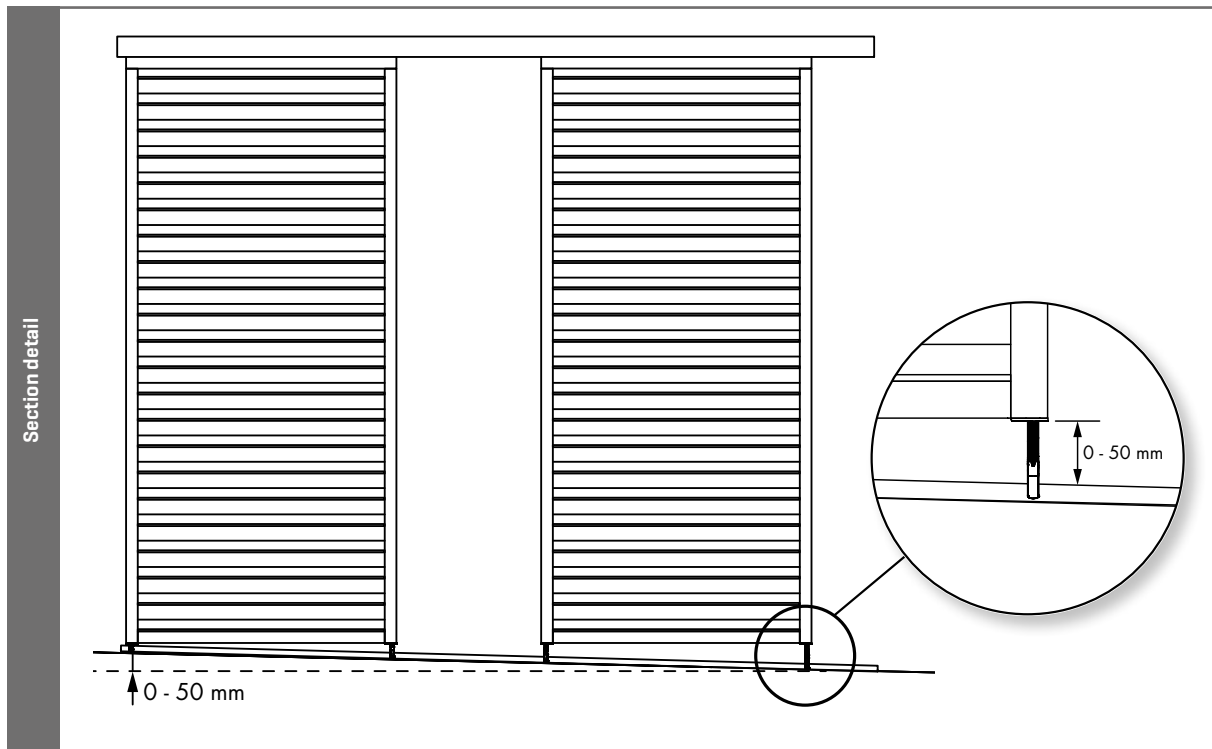
## FEATURES

- Aesthetic
  - Flexguide is discreet and integrated into the sliding panels frame profile without visible fixings.
- Guarantees stability
  - Resistant to thermal expansion
  - Resistant to setting of building and building parts [permanent or temporary]

## TECHNICAL SPECIFICATIONS

- Flexguide has been made entirely from stainless steel material and is maintenance free
- The above-mentioned types of sliding panels with Flexguide meet all CE requirements as stated in the declaration of performance DoP/RP/001 on the basis of harmonised technical specifications according to EN 13659:2004.
- During the development phase, Flexguide has undergone durability testing ensuring functionality and service life.
- Flexguide is also available as a separate component for Loggia building box system [modular system].

## TECHNICAL DRAWINGS

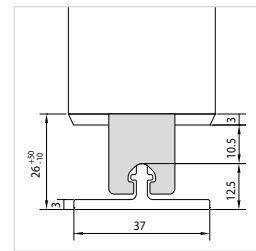
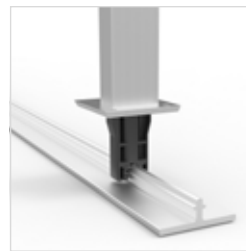


## TYPES OF FLEXGUIDE® AND USES:

Flexguide®-Plus

### Flexguide®-Plus

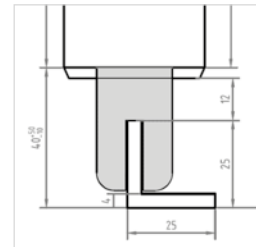
- 37x12,5x3 mm
- "T" under-base guiding profile with slight elevation of 12,5 mm suitable for openings, e.g.: wheelchair users
- Typical application: terrace covering



Flexguide®-Long

### Flexguide®-Long

- 25x25x4 mm
- "L" under-base guiding profile with height of 25 mm
- Typical application: suitable for high wind loads



# ACCESSORIES SLIDING PANELS

PROJECT SOLUTION

Folding panels





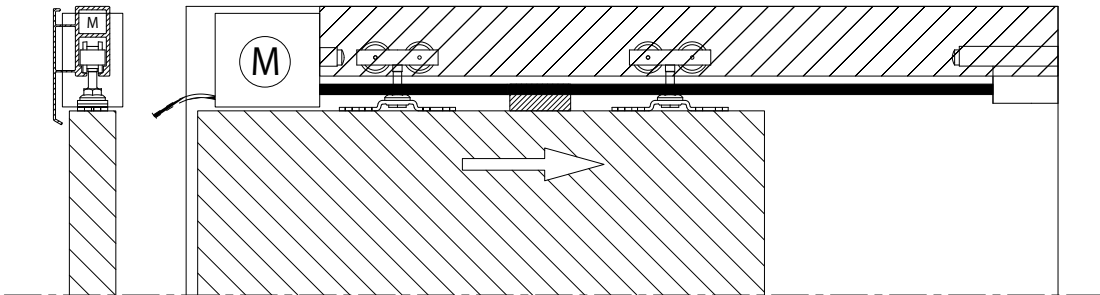
Available with LG.040

The folding system is only available in a manually controlled version.

## CONTROL

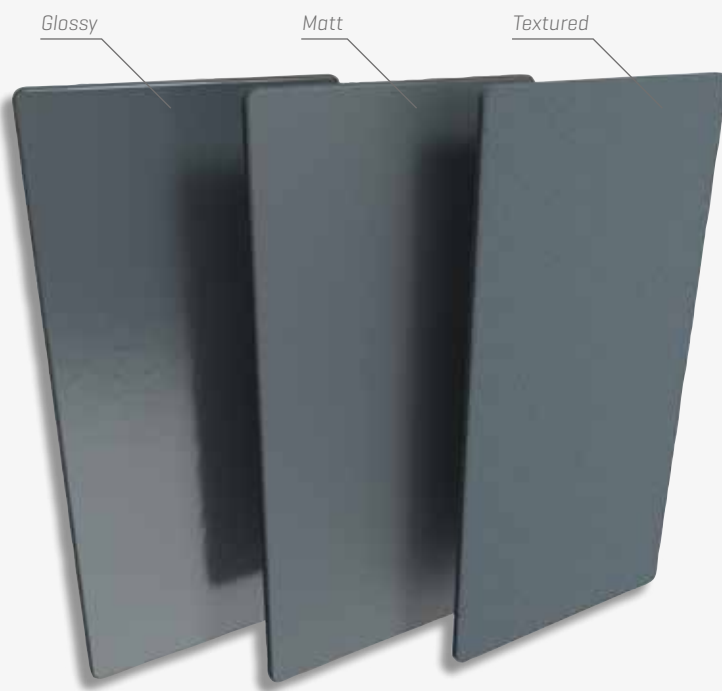
All sliding systems can be operated manually or motorised.

- 230V motor is suitable for operating with a simple switch, remote control or by connecting it to a Building Management System [BMS].



# RAL COLOURS

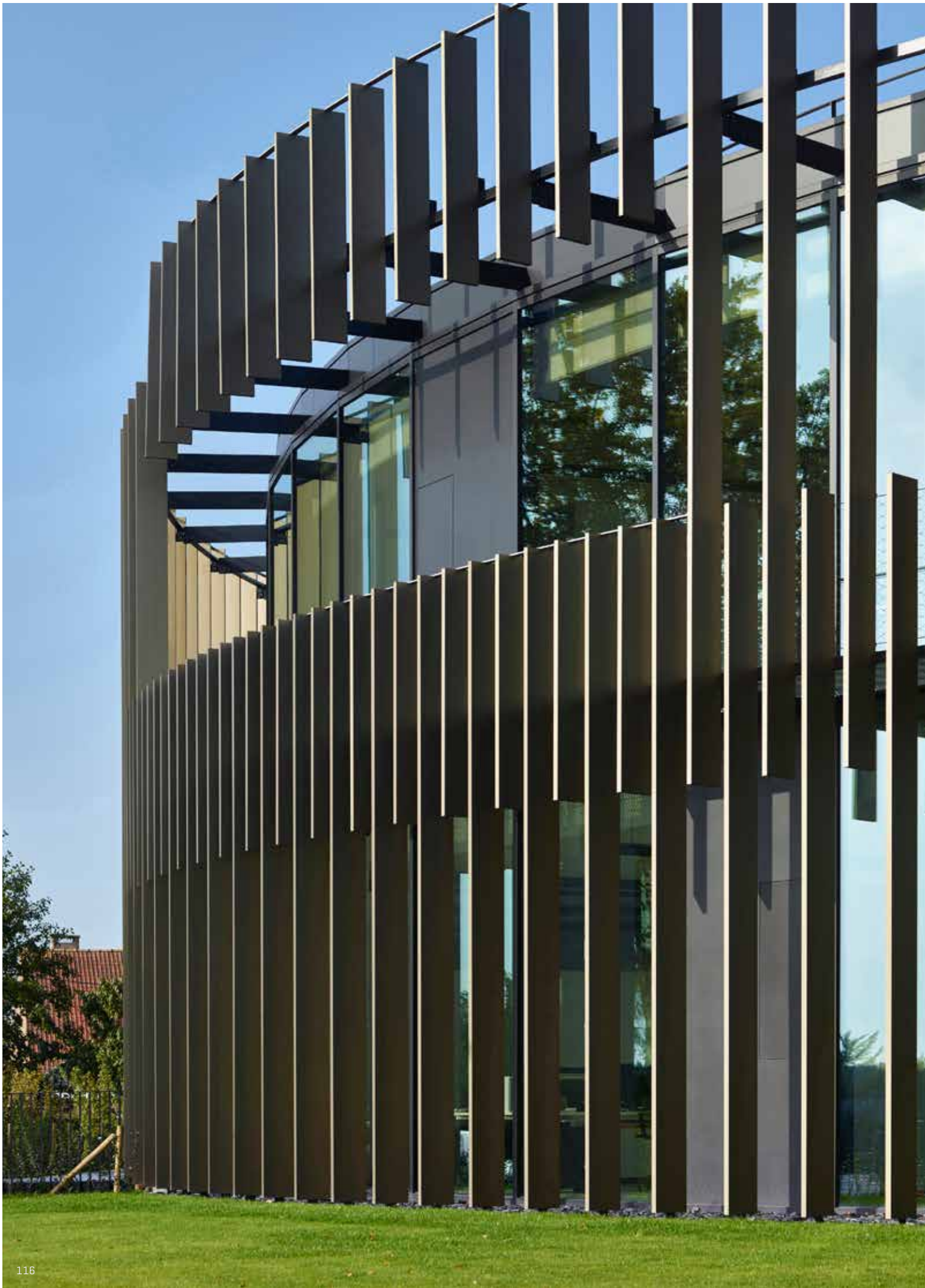
You can choose from a wide range of RAL colours. This ensures that the sun protection screen always fits in seamlessly with the building's style. The choice is yours: a glossy or matt finish or rather a trendy texture coating that is not only wear-and scratch resistant, but also maintenance-friendly.



To guarantee the colour-fastness of the paint, we recommend Seaside Quality for coastal areas and other aggressive environments [heavy industry, ...]. In this way, the paintwork always remains in perfect condition and will still look new after several years.









# WARRANTY

All of the materials we use are of high quality and are tailored to meet the intended purpose.

## As the manufacturer, we guarantee:

- 5 year\* product warranty for normal household use and regular maintenance.
- 5 year warranty on the electronic control
- 10-year colour-fastness warranty for the powder coating on the aluminium parts.
- 5 year warranty on gloss level on aluminium profiles.



The warranty covers the delivery of replacement parts, assembly on site by an installer (possibly assisted by a technical employee from Renson® Sun Protection-Projects), or a complete revision of the system by the manufacturer at our location. The assembly costs (travel plus hourly rate) are not covered by this warranty.

The warranty period starts from the production date and only applies to the actual product, not on the installation thereof.

The warranty only applies when the product is used and maintained in accordance with the instructions of the user manual. The warranty becomes void after incorrect or abnormal use of the product.

\* Also see the warranty certificate.

# MAINTENANCE

Sun protection requires little maintenance. You add many years to the service life of your sun protection by handling it with care.

## Enkele algemene richtlijnen:

- Before cleaning, first remove loose dirt with a brush. You can subsequently remove the remaining dirt with a cleaning product [avoid corrosive products] and lukewarm water. Always rinse the fabric after cleaning. Avoid cleaning in fierce sunlight: stains may remain on the fabric when the soap water dries quickly.
- We do not recommend using high pressure devices.
- Do not use any aggressive abrasives.
- We recommend semi-annual maintenance for non-aggressive environments. For aggressive environments [sea, heavy industry ...] we recommend frequent maintenance, about 4 times a year.
- Always use the manufacturer's original spare parts.

\* See our user manual.

## Easy maintenance with the Renson® Maintenance Set

- The texture is made of powder coated aluminium. An annual cleaning with the **Renson® Maintenance Set** products ensures years of maintaining the intense colors and gives extra protection against acid rain, sea air and UV rays. Maintenance is designated at least 2 x per year in coastal areas and wooded environments.
- The **Renson® 'Clean'** is a concentrated product with strong cleansing and degreasing properties for the most common natural pollutants, such as dust, greasy deposits, grease stains, moss, insect marks, etc. This product is not comparable with most cleaning products. Because of its in-depth action, the dirt is 'lifted', so to speak. This product can also be used for cleaning polyester fabric roofs and vertical fibreglass screen fabrics. After cleaning, you must protect the aluminium texture with **Renson® 'Protect'**. It leaves a protective film that facilitates subsequent cleaning of the surface area with a simple swipe of the surface and realises it with minimum use of **Renson® 'Clean'**. It also protects the aluminium against acid rain, sea air, UV rays and thus ensures that the intense colour is retained.
- Both products must not be used in direct sunlight or hot weather. The fast drying of the product could leave stains on the structure or the fabric. Never use corrosive or aggressive products, scouring pads or other abrasives. Furthermore, never use high-pressure devices.



Renson® Maintenance Set

# WHY RENSON®?

Renson® sets the bar high and is always one step ahead of the future. And you can get a piece of this. Choosing for Renson® is not a coincidence?

## **You choose for Belgian quality**

You get the warranty that every element is produced durably in accordance with the strictest quality requirements. This allows you to enjoy your investment for a long time. Designed & Made in Belgium.



## **You draw the map of innovation**

You like to join the latest technologies? So do we. Our substantial R&D-team continuously develops new products and possibilities. Before our products enter the market, they are subjected to sound thorough durability tests. At Renson®, you always choose the best of the best and you know that it works.



## **Your prefer 100% customization**

We speak your language. Thanks to the extensive product range, Renson® offers a customized solution according to your situation, your taste, your needs and your budget. Our specialists pilot and guide you through all the options.



## **Your believe in the power of communication**

Not only do we have the know-how, but we also share this knowledge. For example, you can enter our EXIT 5 showroom without any obligation, you can find us on the most important [inter]national fairs and our website offers the latest inventions and technical information. Do you have an urgent question? Please contact us by telephone.



## **You choose for trust**

You opt for a reliable partner with tons of experience, which is also financially sound. Since its founding in 1909, Renson® has always been a family enterprise where entrepreneurship, perseverance and dynamism are key.



## **You choose for experts in sun protection and ventilation**

Renson® relies on a powerful and particularly extensive dealer network. Each and everyone is a professional with years of experience. There is always a Renson® specialist in your area who speaks your language. Due to continuous training, we remain abreast with the latest products and techniques.



## **You are not alone**

Renson® commits to advising you, from start to finish. And it does not end with a perfect installation, you can keep on relying on the expertise of our professionals.





# RENSON® ACADEMY

## **Why?**

The proper functioning of our products does not only depend on the quality, but also on the correct installation and adjustment by the installer. As manufacturer, we also ensure that these installers deliver good work.

## **How do we manage this?**

Installers receive a thorough technical training at our training centre. Our experienced installers show them how to install everything correctly.

## **The result?**

Properly working systems that ensure the comfort and health of the residents and meet all the technical and quality requirements.

# RENSON® PRE- & AFTERSALES

## **Why?**


A specific project? We look for a suitable solution together with you. We can also help you with questions about installation.

## **How do we manage this?**

A team of technically trained employees is ready with a suitable answer to all your questions.

## **Result?**

For every project, there is a suitable solution and an excellent after-sales service.



Get inspired in our showroom  
EXIT5 at Waregem along the E17

E X I T 5

EXPERIENCE, INNOVATION & TECHNOLOGY @ RENSON

## WE'D BE HAPPY TO HELP YOU!

Our head office - the elegant building designed by the late architect Jo Crepain, which has been the visiting card of our company for many years - is now being renovated. The bottom part of the building now has an imposing glass façade. Behind the façade, there is a new 'Customer Centre' with reception rooms for customers, conference rooms, and an auditorium, where large groups of more than 300 people can participate in presentations. In case of smaller groups, this auditorium can also be divided into 3 separate rooms.

The highlight of the project is the new showroom of 1250 m<sup>2</sup>, where professional customers as well as private individuals can be accommodated. Apart from a showroom for Renson®'s various innovative solutions and concepts, it is planned to make this room a knowledge centre, where customers can walk in and ask questions about ventilation, heating, sun protection, ventilative cooling, acoustics, interior, etc., .... In short: everything to provide the home with all the necessary comfort. There is also the possibility to view the solutions in practice in show houses located nearby.

*For more information about the network of Renson® ambassadors, please visit our website at: [www.renson.eu](http://www.renson.eu)*

# RENSON®: YOUR PARTNER IN VENTILATION, SUN PROTECTION AND OUTDOOR CONCEPTS

- **Creating healthy spaces**

From 1909, we've been developing energy efficient solutions assuring a healthy and comfortable indoor climate. Our headquarters - built according to the 'Healthy Building Concept' - is a beautiful example portraying our corporate mission.

- **No speed limit on innovation**

A multidisciplinary team of more than 90 R&D employees continually optimize our products and develop new and innovative concepts.

- **Strong in communication**

Contact with the customer is of the utmost importance. A group of 100 in-the-field employees worldwide and a powerful international distribution network are ready to advise you on site. EXIT 5 at Waregem gives you the possibility to experience our products on your own and provides necessary training for installers.

- **A reliable partner in business**

We can guarantee our customers optimal quality and service thanks to our environmentally friendly and modern production sites (with automated powder coating line, anodisation line, uPVC injection molding machinery and mold making shop) covering an area of 95.000 m<sup>2</sup>.





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## Dealer

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