

OUTDOOR LIVING

TECHNICAL INFORMATION



Table of contents

DIMENSIONS	3
CONSTRUCTION METHOD	4
SUN PROTECTION	6
RAIN PROTECTION	7
WIND AND SNOW PROTECTION	9
QUALITY	10

Camargue®
Frame RAL 9011
Blades Wood Design Walnut
Fixscreen® tuffscreen
Loggia Paro Wood Design
UpDown LED
France



Dimensions

Type	Camargue®	Camargue® Skye	Algarve®	Algarve® Canvas	Aero®	Aero® Infinity	Aero® Skye	Lapure®
Max. span/ width	4500 mm	4500 mm	4500/6000 mm**	4500/6000 mm**	4500/6000 mm**	4500 mm	4500 mm	6000 mm***
Max. pivot/ depth	6200/7060 mm*	6200 mm	7000 mm	6055 mm	6055 mm	13250 mm	6200 mm	5000 mm
Max. pas- sage height	2800 mm	2800 mm	2800 mm	2800 mm	-	-	-	2900 mm
Total height with blades closed	Passage height + 260 mm	Passage height + 260 mm	Passage height + 230 mm	-	230 mm	230 mm	260 mm	-
Total height with blades 90° open	Passage height + 355 mm	Passage height + 355 mm	Passage height + 325 mm	-	230 + 95 mm	230 + 95 mm	260 + 95 mm	/
Max. blade rotation	150°	135°	150°	-	150°	130°	135°	-
Inclination angle	-	-	-	-	-	-	-	10° - 35°
Can be coupled	Can be joined in multiple parts	Can be joined in multiple parts	Can be coupled in two parts	Can be coupled in two parts	Can be coupled in two parts	-	Can be joined in multiple parts	Can be coupled in two or three parts

* Smaller dimensions (span min. 500 mm and pivot min. 1256 mm) possible by special request to pre-sales - drawing office.

** 6000 mm only possible with intermediate beam, otherwise max. 4500 mm

*** From width > 4000 mm with crossbeam

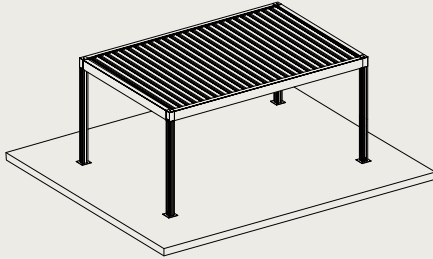


Construction method

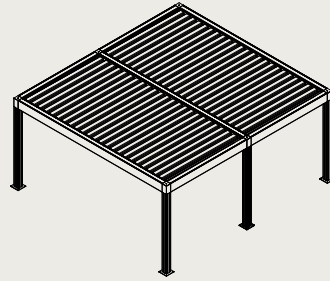
Free-standing

The sides are entirely freestanding, and the patio cover is not attached to any walls.

Models: Camargue (Skye), Algarve (Canvas)



Single

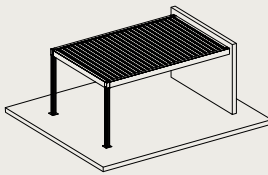


Joined

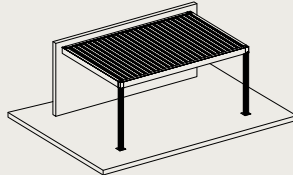
Wall-mounted

One or more sides are mounted against a wall.

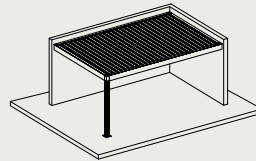
Models: Camargue (Skye), Algarve (Canvas)



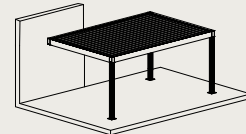
*Full wall (facade mounting)
span*



*Full wall (facade mounting)
pivot*



*Full wall (facade mounting)
span and pivot*

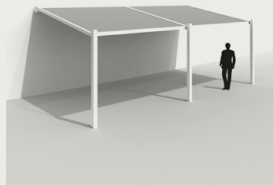


Partial wall

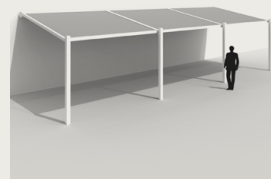
Model: Lapure



Single



2-part joined



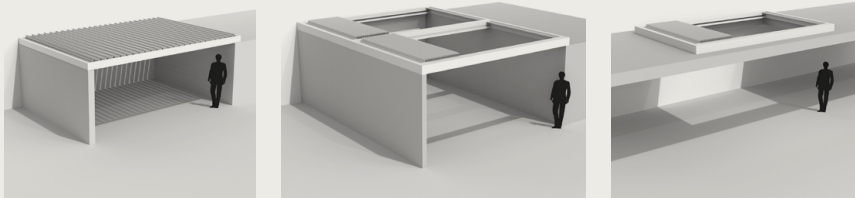
3-part joined

Construction method

Surface-mounted

In this construction method, the frame is installed on an existing structure. The installer will need to drill the necessary holes for installation.

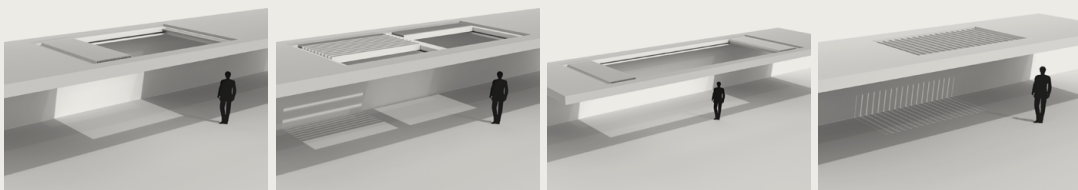
Models: Aero, Aero Skye, Aero Infinity



Integrated

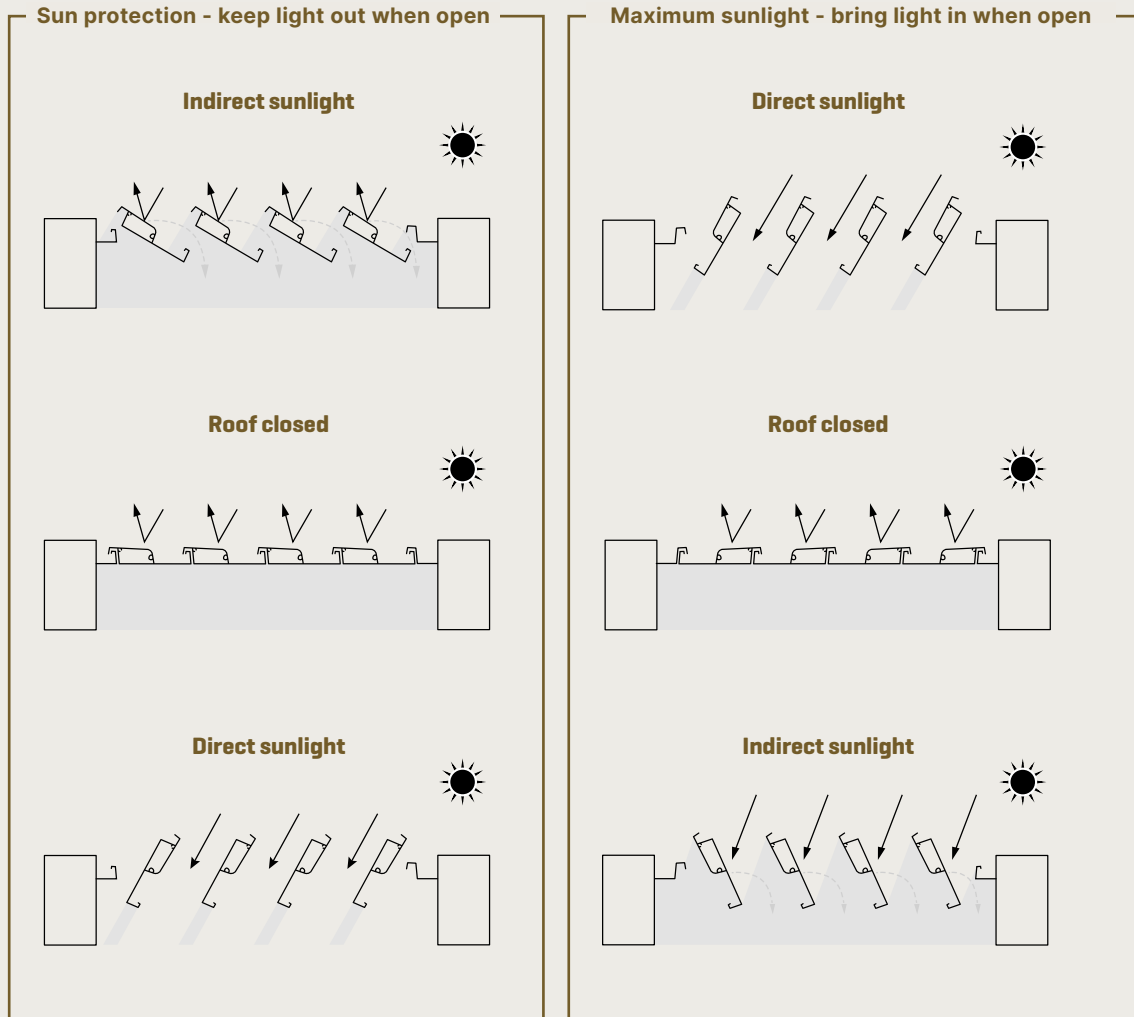
If the frame is to be integrated into an existing opening, it will be mounted sideways within the opening.

Models: Aero, Aero Skye, Aero Infinity



SUN PROTECTION

The blades can rotate up to 150°, allowing you to control sunlight under your canopy at any time of the day.

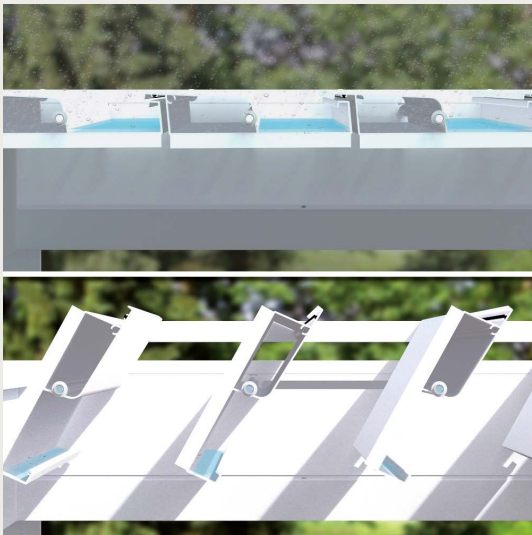


Additionally, various side inserts are available to provide optimal sun protection:

- **Fixscreen:** the fabric can be completely rolled up out of sight when not needed. Even when extended, the Fixscreen offers high wind resistance up to 60 km/h.
- **Loggia sliding panels:** a major advantage of these sliding panels is their ease of use, allowing you to slide them sideways for easy entrance and exit under the canopy. There is a wide range of Loggia designs available, depending on your desired view.

RAIN PROTECTION

Camargue (Skye), Algarve and Aero (Skye) are patio covers with a roof with rotatable blades. The blades produced by Renson are unique and crafted with an emphasis on robustness and detail. Alongside an innovative system that ensures water is neatly drained when the blades are being opened, brushes also ensure the blades close silently. Additionally, the blades are double-walled, providing strength and reducing noise when it rains.



- **Double-walled blades**
These provide extra sturdy blades with a high load-bearing capacity.
- **Welded drip borders**
Coated in the colour of the canopy.
- **Specially developed gutter border**
Prevents the patio and furniture from getting wet when the blades are opened after a rain shower.
- **Soft closing of the blades**
Brushes in the blades ensure a soft closing and prevent them from freezing shut.

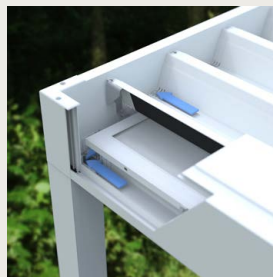
- **High water drainage capacity**
Water flows from the wide blade gutter to the main gutters and is drained via the integrated PVC drainpipes in the column.



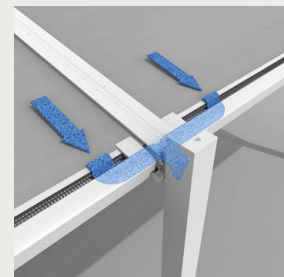
Camargue®



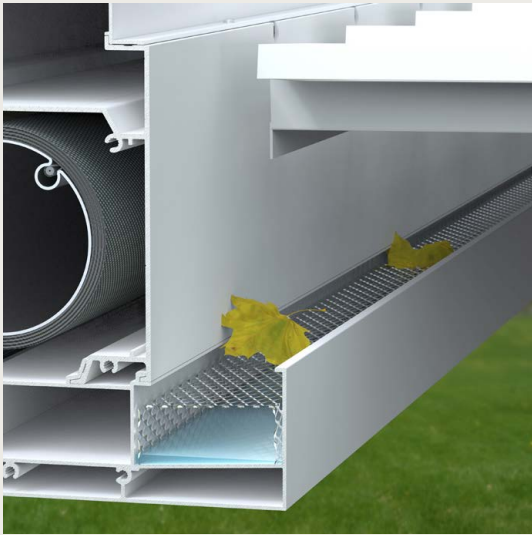
Algarve®



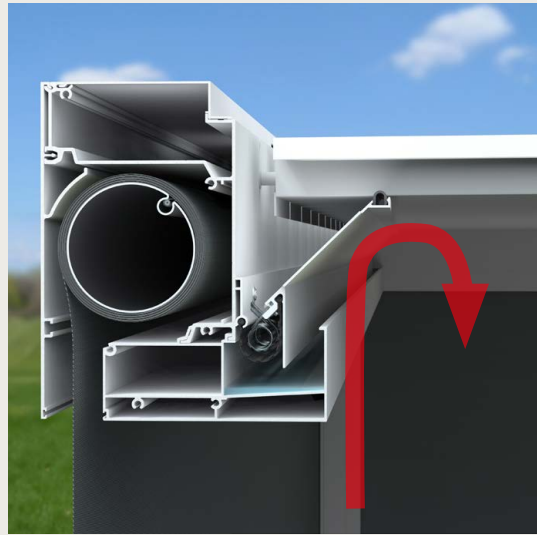
Algarve® Canvas



Lapure®



- **Splash prevention**
Gutters equipped with diffusers to prevent water splashing.



- **Protecto**
Protection from wind, driving rain and snow between the gutter and the blades.



The water-repellant and drainage capabilities are tested using a spray system that simulates rain. For example, we assess the water flow rate our patio covers can handle and explore ways to optimize this drainage.

Lapure is a patio cover with waterproof, translucent, sun protection fabric. The Fixscreen-technology, combined with optimal fabric tension, ensures that rainwater is drained from the fabric into hidden channels. Even if the sun protection fabric is not fully unrolled, the water that falls on it is drained away via this integrated water drainage system. During heavy rainfall, water can flow over the bottom bar.

Max. rainfall rate (l/m ² .h)*						
Camargue [®]	Camargue [®] Skye	Algarve [®]	Algarve [®] Canvas	Aero [®]	Aero [®] Skye	Lapure [®]
150	150	120	120	120	150	50

* Intensity lasting a maximum of 2 minutes. (Cf. Belgian rain statistics: NBN B 52-011 standard)
150 l/m².h occurs on average every 15 years. 120 l/m².h occurs on average every 10 years.

WIND AND SNOW PROTECTION

Patio covers are subjected to various external forces, such as wind and snow. These forces were determined through static strength calculations and validated by internal tests. The maximum load capacities depend on the basic structure, surface area, model, inserts used and the location.



Wind

Static calculations based on Eurocode 9 require the roof blades to be opened (placed vertically) at wind speeds > 50 km/h. At higher wind speeds, the blades can no longer be operated as the forces become too great for the motor control.

Max. wind speed blades (km/h)						
Camargue®	Camargue® Skye	Algarve®	Algarve® Canvas	Aero®	Aero® Skye	Lapure®
160	120*	120	120	120	150*	120

If the roof blades remain closed for any reason at wind speeds over 50 km/h, wind tunnel tests have shown that the roof blades can withstand wind speeds up to 160 km/h for Camargue and up to 120 km/h for Algarve, Aero (Skye), and Camargue Skye. For Camargue and Aero Skye, they can withstand up to 160 km/h only with stacked blades*.

You can operate the sun protection upwards at wind speeds up to 30 km/h. All screens must be retracted at wind speeds over 60 km/h. Loggias and glass sliding panels should be opened at wind speeds over 50 km/h.

Snow

The load capacity depends on the basic structure and the surface area. The basic principle is that the structure is allowed to bend by 1/200 of its longest dimension without any permanent deformation.

Below is a brief overview of the max. possible load capacity for each model:

Max. load capacity** (kg/m ²)						
Camargue®	Camargue® Skye	Algarve®	Algarve® Canvas	Aero®	Aero® Skye	Lapure®
200	100	100	100	100	100	0

** Only possible with certain specific dimensions.

QUALITY

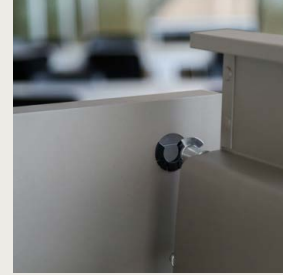
F2 Technology

Renson places a high value on quality, aiming for you to enjoy your purchase for a long time.

The **F2 technology**, designed for the Algarve and Camargue, ensures an extremely strong design. For the Algarve, a locking system ensures the shape stability of the supporting structure. For the Camargue, this is achieved through a tensioning system. As a result, both systems achieve high wind stability.



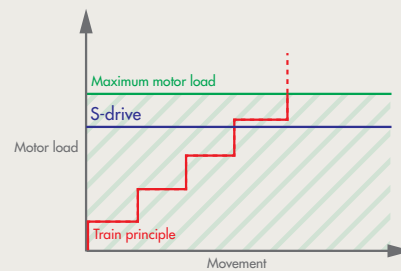
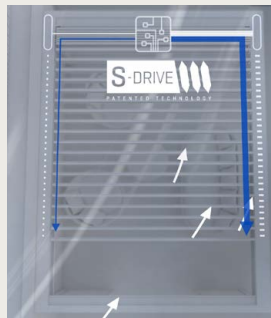
Camargue®



Algarve®

S-Drive Technology

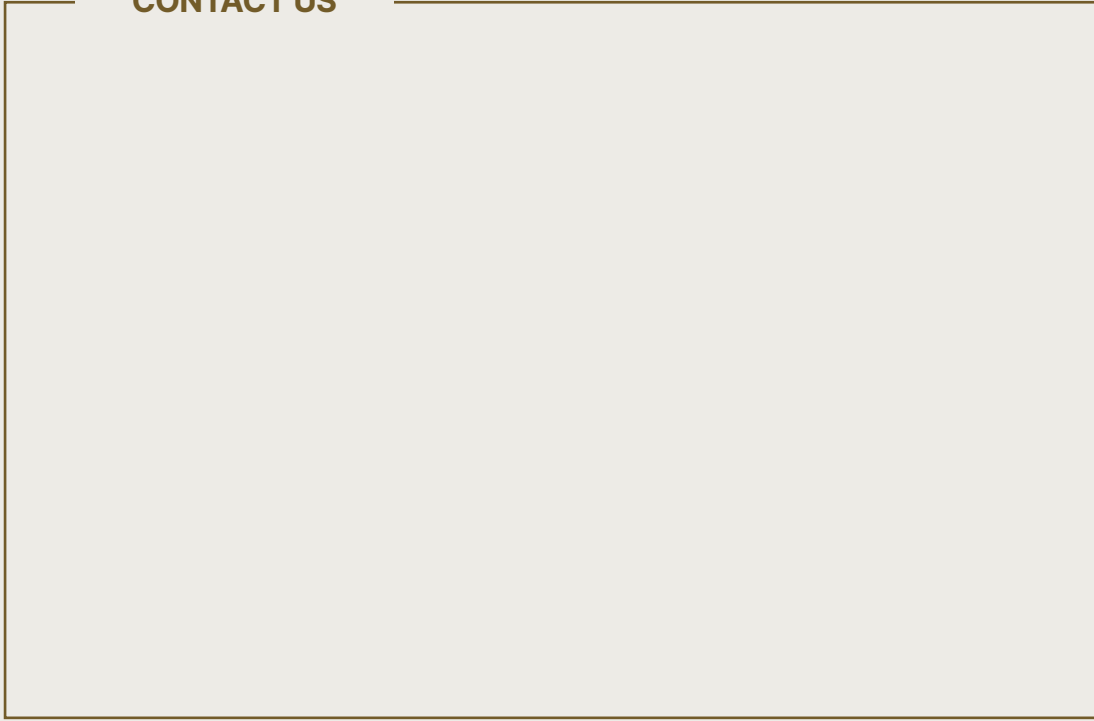
The **S-Drive Technology** of our Camargue Skye and Aero Skye louvered roofs, ensures an equal and smooth opening of the blades by equal distribution of the driving force through a spindle.



For the Algarve Canvas, we use a tightly stretched canvas equipped with Fixscreen technology, with a sealing profile to keep out dirt and insects. This gives you a perfectly finished aesthetic shelter.



CONTACT US



All photos shown are for illustration purposes only and merely serve as an example of a practical situation. The actual product may vary due to adjustments to the product. Renson® reserves the right to make technical modifications to the products shown. The latest brochures can be downloaded from www.renson.net.

