# TERRACE COVERING WITH ROTATABLE ALUMINIUM BLADES

## Manufacturer

RENSON Sunprotection-Screens NV, Kalkhoevestraat 45, 8790 Waregem – Belgium
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(You can omit the text highlighted in red according to your choice)

## Description

Algarve® is an aluminium terrace covering, which can be free-standing or mounted onto a façade, and is supported by vertical columns. This terrace covering, which allows adjustable sun protection fabric or ventilation, can be operated electronically.

## Dimensions

Span: Minimum 1800 mm

 Maximum 4500 mm

Pivot: Minimum 2610 mm

 Maximum 6050 mm

Free passage height: Dependent on the supporting structure

Total height, without the motor box: Fee passage height + 230 mm

Total height including the motor box: Free passage height + 360 mm

Coupled:

Two roof sections coupled on the pivot side to achieve a longer span side.

No extra column is required between each roof section.

Span per roof section: Minimum 1500 mm
 Maximum 4500 mm

Span (the sum of the 2 roof sections) Minimum 3000 mm

 Maximum 6000 mm

Information:
The "Span side" corresponds to the span of the blades
The "Pivot side" is the side where the blades rotate (or pivot)

## System implementation

### Installation type:

* Installation type 1:
	+ Free-standing, 4 columns
	+ Self-supporting structure
* Installation type 2:
	+ Façade mounting
	+ Building situation 1:
		- Installed with one side against a backing, supporting construction/structure
		- Blades parallel to the wall
		- Two columns
	+ Building situation 2:
		- Installed with one side against a backing, supporting construction/structure
		- Blades perpendicular to the wall
		- Two columns
	+ Building situation 3:
		- Installed with two sides (pivot and span-side) against a backing, supporting construction/structure
		- One column

### Columns:

* Installation requires 1, 2 or 4 columns, depending on the installation type.
* They are made of square aluminium box profile, 110 mm x 110 mm.

### Mounting bases:

There are 2 types:

* Visible mounting bases with a visible ground plate
* Invisible mounting foot

### Frame:

* A sturdy surrounding frame made of extruded aluminium profiles
* Height: 230 mm
* Inclination: 0°

### Blades:

* Sun protection blades made of extruded aluminium
* Rotatable through 150°
* Underside: completely flat
* Upper side: sharply defined edges + water drainage gutter
* Side edges equipped with hidden fixed L-profile to stop water run-back
* The specific design ensures water drainage when the blades are closed
* And water drains off when you rotate the blades after a shower
* Blade mounting:
	+ Fitting into the pivot-sides using the stainless steel shafts
	+ A slight inclination on the blades for optimum water drainage

### Motorisation:

* Linear motor with a driving profile and RTS control
* Placement:
	+ The motor is fitted in the frame
	+ The motor is concealed in an aluminium housing.
		- 130 mm in height
		- 580 mm long
		- Painted in the same RAL colour as the structure

### Water drainage:

* **Through the column:** A Ø 50 mm hole is provided for water drainage in the gutter on the edge of each pivot -side. Each hole has a drainage trap that serves as leaf catcher and a connection for a drainpipe (Ø 50 mm) An opening is provided at the bottom of the column to discharge rainwater. A Ø 50 mm drain pipe connects to the discharge trap to channel the water out of the column.

### Colour:

All visible aluminium profiles are coated in your choice of architectural textured RAL colour (60-80 microns)

### Assembly:

All fixings (e.g. screws) are made of stainless steel

### Power supply and wiring:

Electrical cables are fully integrated, invisibly, into the terrace covering

## Technical data:

### Maximum weight of snow load:

Dependent on the dimensions



### Maximum wind speed when controlling the blades:

50 km per hour

### Wind resistant up to:

120 km per hour (with closed blades)

### Water drainage and precipitation rate:

The terrace covering can handle precipitation rate that corresponds to a rain shower with an intensity of 0.04 L/sec/m² up to 0.05 L/sec/m², which a maximum duration of 7 minutes. This type of heavy shower occurs on average twice a year. (See the Belgian rain statistics: NBN B 52-011)

## Warranty

* Five years product warranty on the structure (covering all faults that could occur during normal domestic use and with regular maintenance)
* Five years warranty on Somfy® automation
* Two years warranty on the blade motor
* Ten years warranty on the colour integrity of powder coating on the aluminium profiles
* Five years warranty on gloss (powder coating)

## Options

### LED blade lighting

* Blades can be equipped with integrated LED lighting. 180 LEDs/m
	+ Warm white light (+/- 2800 K, 1700 lumens/ m)
	+ Pure white light (+/- 5000 K, 1700 lumens/ m)
* Connection: 230 Volts AC
* This lighting is controlled, as standard, by an independent remote control (on/off and dimming). Control with a Somfy® RTS is possible at extra cost.

### Up/Down LED ventilator:

Integrated LED lighting along the full length of the inner side of the frame equipped with Upwards and/or Downwards lighting

* Up:
	+ Warm white light, 120 LEDs/M | +/- 2800 K | 550-680 lumens/m
	+ Pure white light, 120 LEDs/M | +/- 5000 K | 550-680 lumens/m
* Down:
	+ Warm white light, 120 LEDs/M | +/- 2800 K | 550-680 lumens/m
	+ Pure white light, 120 LEDs/M | +/- 5000 K | 550-680 lumens/m
	+ RGB 60 LEDs/m | 550-700 lumens/m

### Glass blade

A translucent blade, comprising 8 mm, mat painted safety glass and an aluminium supporting profile
Maximum 5 glass blades on a single roof installation

Max. Three glass blades on a coupled roof installation

### Beam:

* You can equip the terrace covering with a Beam-
module, an aluminium housing that can house a heating element (Heat) and loudspeakers (Sound).
* Mountable on the inner side of the frame profile on the Span-side
* You can swing the module (stepless) through 30° for adjustment bolt

### Heat:

* A heating power element that you can integrate in the Beam-module
* The visible, corrugated plate is anodised in black
* Convection heat
* Power: 2600 W/Heat, Power rating = 12 A/Heat
* IP 65
* RTS control (exclusive receiver, remote and controls)

### Sound:

* "Flat Panel" type speakers that integrate into the Beam-module
* "Plane Wave" technology
* 25 W RMS, Flat Panel Speaker
* 50 W RMS, Flat Panel Speaker
* IP 65
* Connection: Connects to a tuner/amplifier using an audio cable

### Rain sensor kit:

* Capacity: Rain sensor, fixing materials and accessories
* Action:
	+ Closes the blades automatically when there is rain
	+ Rotates the blades to their pre-set snow position whenever there is precipitation combined with a freezing temperature
* It is mounted on a slight incline and has a tiny heating power element for better sensor drying

### Wind sensor kit:

* Capacity: Somfy Eolis RTS Wind sensor and extra accessories
* Action: The blades should be closed when wind speeds are > 50 km/hour, to conform to our warranty terms
* The wind sensor has priority over the rain sensor

## Norms

This product is made to conform to, satisfies and/or has been tested according to the norm: EN 13561