

INTEGRATED PATIO COVER WITH ROTATABLE ALUMINIUM LOUVRES

Manufacturer

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Description

Aero® is a horizontal patio cover integrated into an existing structure and equipped with a system of aluminium extruded rotatable louvres.

Dimensions

Span (longitudinal direction of the louvres): min. 800 mm – max. 4500 mm
expandable with an intermediate beam up to max. span 6000mm
Pivot (lateral direction of the louvres): min. 1110 mm – max. 6055 mm
expandable without intermediate beam up to pivot 12000mm

System implementation

Frame:

- Aluminium extruded louvres, powder coated in a colour of your choice
- Connections on the same side are finished in 1 plane without protruding covers or visible screws
- Height: 230 mm
- Inclination: 0°

Louvres:

- Aluminium extruded louvres, powder coated in a colour of your choice
- Rotatable through 150° (electronically operated)
- Inclination: 3cm over the complete louvre length
- Underside: completely flat
- Distance between 2 louvres: max. 7mm
- Outer radius of the visible profile edges: max. 1,5mm
- Side edges equipped with hidden fixed L-profile to prevent water run-back to the underside of the louvres
- A triple-edged gutter at the longitudinal direction of the louvres prevents water still on the roof from reaching the underlying terrace and furniture when the roof is opened.
- Secured in the pivot sides by means of stainless steel shafts with integrated locking for a stable construction

Motorisation:

- Linear motor with a driving profile and **RTS or IO** control
- The motor is fitted on top of the frame
- The motor is concealed in an aluminium housing of 130 x 580 mm, powdercoated in the same colour as the frame

Water drainage:

- **Downwards:** One or more drainage openings of Ø50 mm are provided in the corner pieces or in the gutter. Each opening has a drainage trap that serves as a leaf catcher and forms the connection to a drain pipe (Ø50 mm) to be connected.

- **Sidewards:** Leaf-filtering openings on the inside of the frame (side of the gutter) are connected to the outside of the frame with a connection piece in which a Ø50 mm drain opening is located and to which a drain pipe (Ø50 mm) can be connected.

Assembly:

All fixings (e.g. screws) are invisibly 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:

Meets the static calculations according to **DIN-EN regulations (Eurocode)**

The load-bearing capacity depends on the dimensions and strength of the supporting structure.

With a maximum span of 4500mm, closed louvres have a load-bearing capacity of at least 520N/m².

Maximum wind speed when controlling the blades:

50 km per hour

Wind resistant up to:

120 km per hour (with closed blades)

Meets the static calculations according to **DIN-EN regulations (Eurocode)**

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

- This product is made according to, complies with and/or has been tested according to the standard: **EN 13561**
- **7 years** product warranty on the structure
- Other components: see warranty conditions

Options

LED lighting in the louvres:

- Louvres can be equipped with integrated LED lighting. 180 LEDs/m
 - o Warm white light (+/- 2800 K, 1700 lumens/ m)
 - o Pure white light (+/- 5000 K, 1700 lumens/ m)

- For the lighting in the louvres, specially developed aluminium profiles are used in which the LED strip is fitted along its entire length and finished with a light diffuser for even light distribution (no visible dots) in the same plane as the underside of the slat.
- Connection: 230 Volts AC
- The lighting is controlled by means of a remote control (on/off/dimming). The same hand-held transmitter can be used to operate the louvres.

Up/Down LED lighting:

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

- Direct and indirect lighting:
 - o Warm white light, 120 LEDs/M | +/- 2800 K | 550-680 lumens/m
 - o Pure white light, 120 LEDs/M | +/- 5000 K | 550-680 lumens/m
- Only available for indirect lighting:
 - o RGB 60 LEDs/m | 550-700 lumens/m

Glass louvres:

Translucent louvres, comprising 8 mm, opal safety glass and aluminium supporting profiles

Fixed blade:

Fixed non-rotating blade for attaching additional accessories to a bladed roof

Beam:

- Aluminium housing for the integration of a heating element (Heat) and loudspeakers (Sound).
- Mountable on the inner side of the frame profile on the Span-side
- Height: 200mm – Depth: 90mm – Length: full length of the frame (inside)
- Powdercoated in the same colour as the patio cover

Heat:

- Heating element via radiant heat integrated in the Beam module.
- Heating element finished with flat black ceramic glass plate
- Power: 2400 W/Heat, Current = 12A/Heat, IP65
- RTS or IO control (same handheld transmitter as the louvres)

Sound:

- 4 Ohms Marine Speakers IP65 , 2 speakers integrated in the Beam module
- 120W Peak Power , Frequency Response: 90Hz - 22kHz
- Cover plate in black anodised aluminium
- To be connected to an amplifier / radio via the supplied audio cables or with integrated amplifier for autonomous operation and control via smartphone or tablet (incl. bluetooth)
- Dimensions W x H: 180 x 180 mm

Rain sensor kit:

- Rain sensor, fixing materials and accessories
- Closes the blades automatically when there is rain
- It is mounted on a slight incline and has a tiny heating power element for better sensor drying

Wind sensor kit:

- Somfy Eolis RTS Wind sensor and extra accessories
- When wind speeds are > 50 km/hour, the louvres close automatically (optimal storm position)