



# HORIZON II

Bioclimatic pergola



# HORIZON II

Protection, elegance and robustness

**Comfort, protection and a convivial space describe the pergola Horizon II. All year round, it provides an unbeatable comfort.**

With both elegant and robust aluminium sections and slats which regulate the sunlight your outdoor spaces are just the way you like them. The additional advantage? Its adaptability to adverse weather conditions.





Sheltered from both sun rays and bad weather, you can enjoy your lunch in peace.

Relax under your bioclimatic pergola with adjustable slats and the desired light intensity.

The defined leisure spaces also offer an unbeatable comfort to have your lunch or to quite simply have a chat.

Have a fun time with your family or with friends without suffering from the sun.



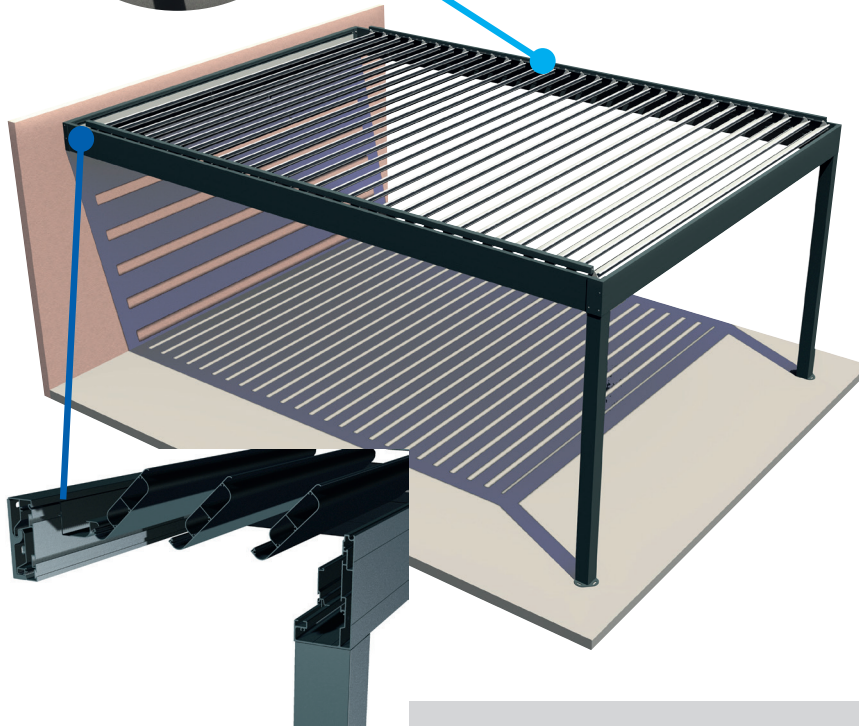


# Described in detail

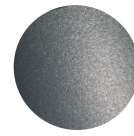
## Cylinder, powder-coating and components



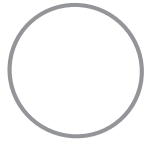
The pergola Horizon II is equipped with a **sturdy and quiet** electric cylinder. This opens the slats to better adjust the amount of sunlight on your terrace.



### Standard Finish

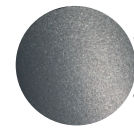


RAL 7016 ANTHRACITE  
Textured finish



RAL 9010 white  
Glossy finish

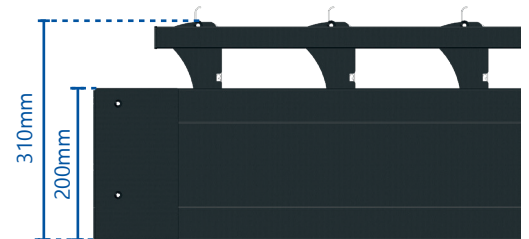
### MIXED



Frame



Slats

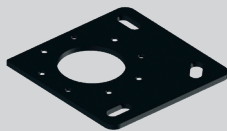


The fixing supports facilitate the installation thanks to multiple positioning possibilities.

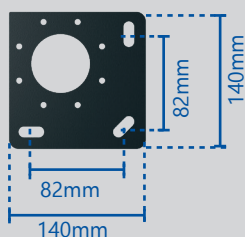
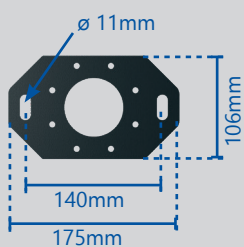
### Floor fixing plates for wall-mounted unit



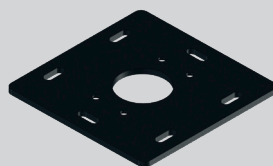
ST3802



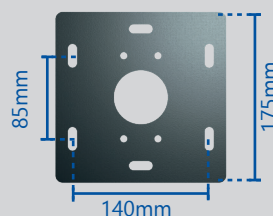
ST38



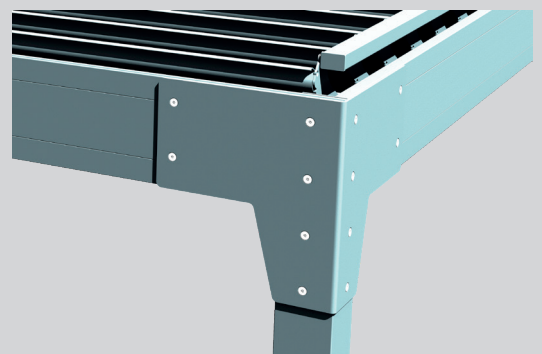
### Plate for free-standing



ST4509



### Reinforced side panel (wind resistance au vent)



JBSO 4706

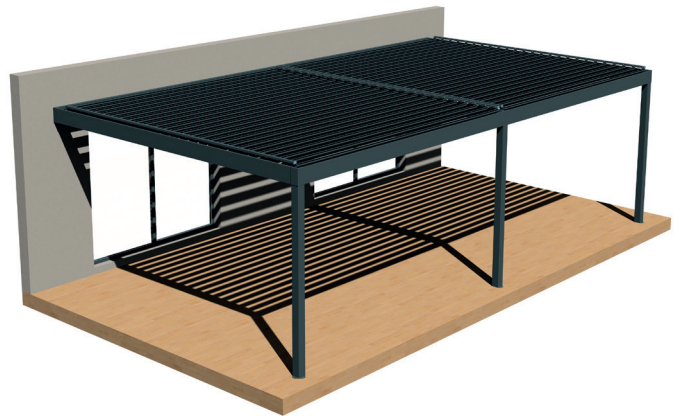


# SET-UPS

Multiple possibilities



Slats parallel to the wall (Proj 4.50m x W 4m)



Adjustable (Proj 4.50m W 8m to  $\infty$  m)



Slats perpendicular to the wall (Proj 4m x W4.50 m)



Free-standing (4 to 7m x 4.50m)



Sliding screens



Sunbreaker wall

## Additional features

The special touch that makes the difference

**The protection of the pergola is good, but it would be even better equipped with features that prolong its usage.**

To be protected from outside eyes, embellish your pergola with sliding screens and enjoy the outdoors as if it is the indoors. You need to protect yourself from the wind out of season? Put sunbreaker walls on the exposed side and voilà!

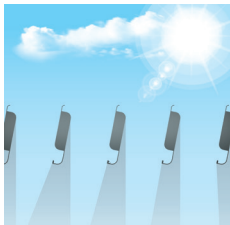


# BIOCLIMATIC

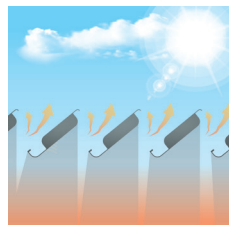
## Adapts to all weather conditions

**Regulates the amount of sunlight, temperature and comfort under the pergola even in unfavourable weather conditions.**

The adjustable slats of the pergola Horizon II allow for control of natural light as well as ventilation. In case of adverse weather conditions, they provide protection from the elements. Angle of the slats at 90°.



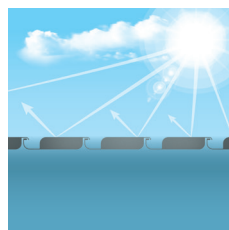
Fully opened to enjoy the sun in winter.



Partially opened, natural ventilation in warm weather conditions.



Closed slats, maximum rain protection.



Completely closed for optimal sun protection.





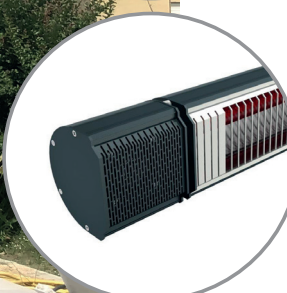
## AVAILABLE OPTIONS



Wind and rain sensor



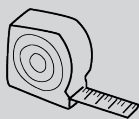
Lighting LED strips with a dimmer on 3 sides



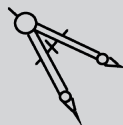
Infrared heating + music (white or grey)



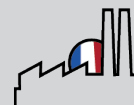
FOR ANY WEATHER



CUSTOM-MADE PERGOLA



DEVELOPED BY THE ENGINEERING OFFICE MITJAVILA



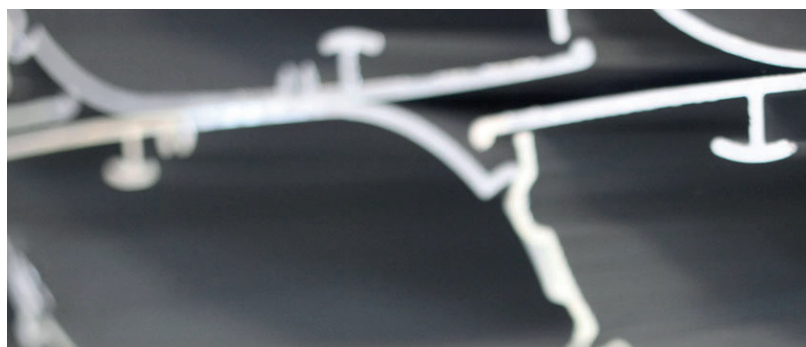
MANUFACTURED AND PUT TOGETHER IN FRANCE

## ALUMINIUM

100% recyclable

The new alloy contains more silicon, more iron, more copper and magnesium, which gives it a better bending stiffness.

It is important to note that the aluminium is 100% recyclable without degrading its properties. Also known as the green metal, it is environmentally friendly.

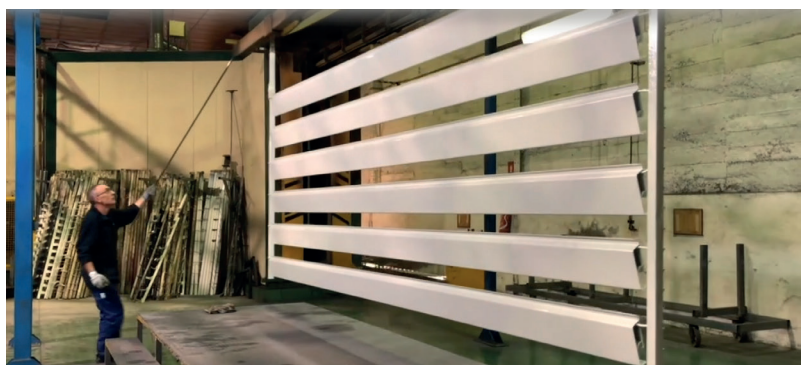


## QUALITY

Tests and monitoring

Designed to guarantee the sturdiness and the aesthetics of an aluminium product,

Horizon II complies with the CE norms and was tested by CSTB. Since its design and at each stage of production your pergola is handled with the utmost care. The powder-coating of the sections meets the industry standards.





# TESTING

## C.S.T.B. Test report

**In accordance with our Quality Charter for Mitjavila products, we ordered resistance tests for our Pergola Horizon system.**

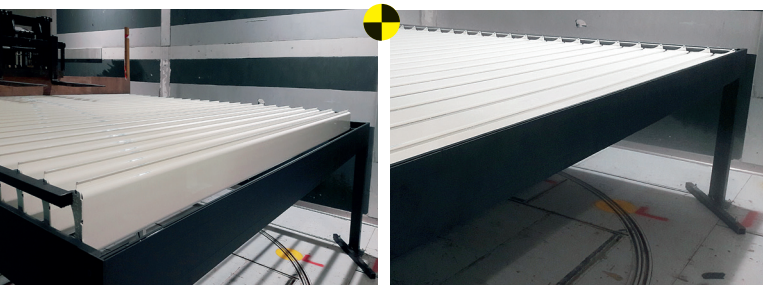
The structure was exposed to simulated extreme weather conditions. Resistance to heavy rain and strong winds has been approved.



The rain tests on our Pergola Horizon as a free-standing unit 4 x 4 metres at a standard height of 2 metres have demonstrated the watertightness of the slats in closed position and the capacity for rainwater discharge through the side sections and posts.

The frame was exposed to a constant wind of 10m/s (36km/h) and to constant rainfall of 130mm/h (higher than the required value), also fulfilling the French standards.

This test was increased to 180mm/h (without wind) and no water leaks were observed between the slats.



The wind tests were carried out on a 4 x 4m pergola fixed to the wall and to the ground (post height of 1m) in a climatic wind tunnel.



The goal was to test the endurance of the slats. The results match the requirements of the Zone 3 standard (Eurocode wind EN 1991-1-4) with a wind of up to 172 km/h.

To test the limits, we repeated the procedure with a wind of up to 200 km/h and no slats were torn out of the structure.

The pergola has been subjected to various wind tests in different configurations of the slats (opened or closed) under high speed winds.

When the wind blows perpendicularly, the pressure on the slats is considerably higher and can also lead to high levels of vibration.

No weakness of the slats nor their fasteners have been noted following these tests.

**CSTB**  
*le futur en construction*

## The other product lines

### Awnings, retractable awnings, photovoltaic...

**Mitjavila, the European leader in sun protection has expanded its know-how in not only sun protection constructions but also in photovoltaic structures.**

Since 1970, from traditional awnings to pergolas with photovoltaic panels through pergolas with fabric, our team keeps extending our range of products to satisfy your needs.



List of resellers and installation technicians upon simple request.

[www.mitjavila.com](http://www.mitjavila.com)

**MITJAVILA**

