



**Green Shades**

**Green Shades is the world's first system that allows the installation of green awnings.**



Vegetable awnings installed in Santa María street in Valladolid , year 2020





# 01

## WHAT IS A VEGETAL CANOPY?

These are tensile sails covered with vegetation, which open up a new range of possibilities for urban landscaping and the air conditioning of spaces covered by tensile structures. The spaces and projects created reduce the temperature both in their surroundings and under the roof. Thanks to the evapotranspiration produced by the plant system, the sails act as plant air conditioners with a cooling capacity of 112 frigories/m<sup>2</sup>. In cities, where heat is a problem, Green Shades is an optimal solution for shopping streets, terraces and squares.

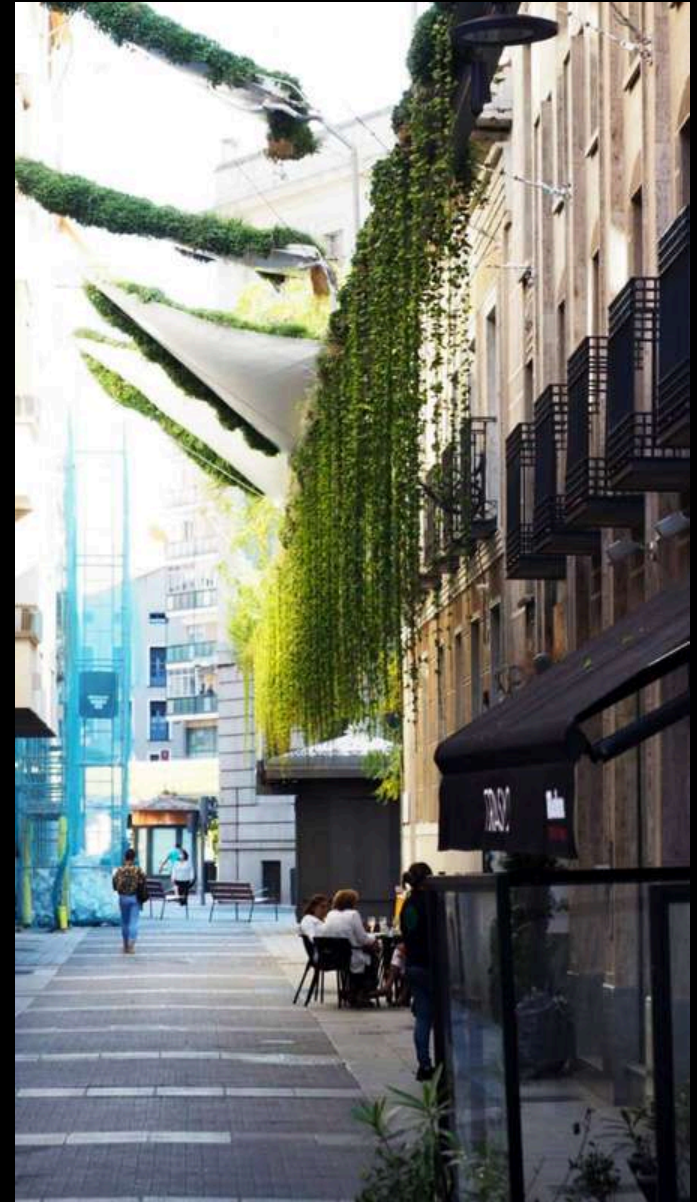
The composition and the plant species are optimised for NOX and CO<sub>2</sub> absorption, contributing to the improvement of air quality in our cities. The lightness and ease of installation allows placement in streets where, due to lack of space or difficulty of intervention, trees or other types of vegetation cannot be placed.

Reduce  
**environmental pollution**

Temperature and humidity  
**regulation**

Creation of  
**shaded urban spaces**

Better use of  
**urban spaces**



# 02

## YOUR PROJECT FOR GREEN SHADES

Green Shades is a versatile system that adapts to the different shapes and sizes of sails, thanks to the LeafSkin projected system. The most common options are listed below, but for each project the specific conditions of the site are studied.

### STRUCTURES ANCHORED TO THE FAÇADE

By carrying out a preliminary study of each of the façades, the anchorages are designed so that they meet the structural and regulatory requirements. It is ideal for the introduction of vegetation in commercial streets and public spaces in historic centres, providing shaded areas which in turn improve the air quality in the city.

### SUPPORT DESIGNS

When there are no façades close to the space to be vegetated, or it is not possible to anchor to them, a structure of its own is designed, using supports, tensioned fabrics and anchors. The advantage of this case is that it allows greater flexibility in terms of design, and any space can be vegetated.



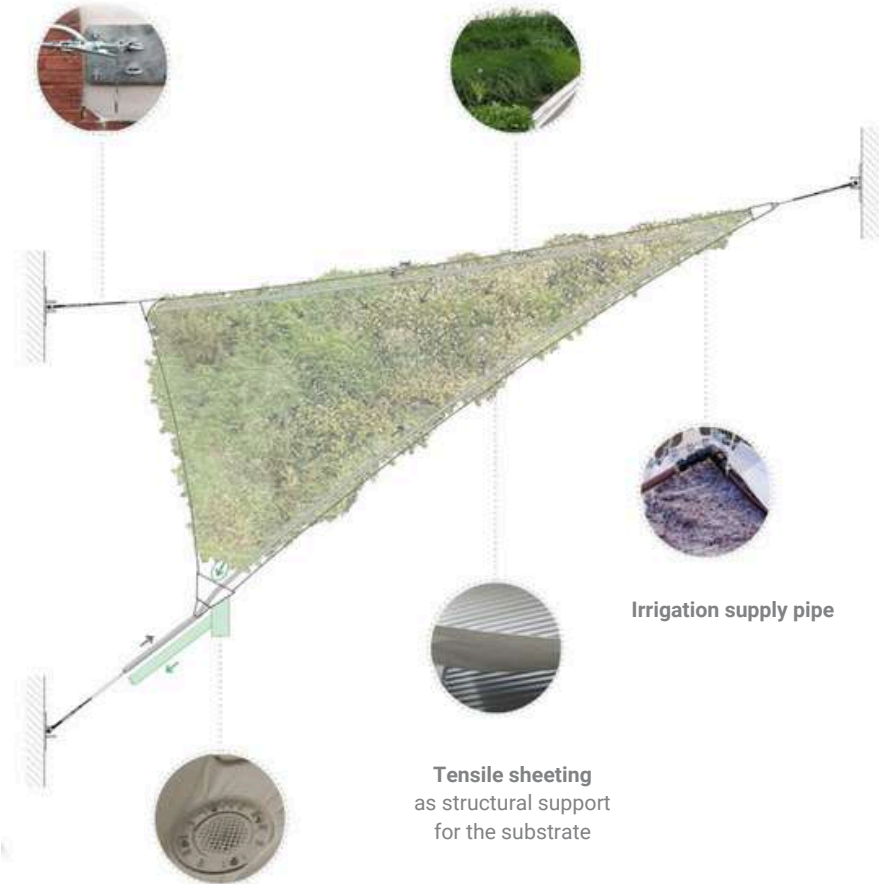


# 03

## COMPOSITION OF THE SYSTEM

**Metal anchorages**  
fixed to the supports

**Vegetation**  
developed after seed  
growth



**Irrigation supply pipe**

**Tensile sheeting**  
as structural support  
for the substrate

**Drain**  
for collecting excess  
water

The water supply and drainage is integrated in one of the three corners of the sail. The irrigation pipe is taken to the highest side, from where the water falls by gravity, soaking the entire substrate.

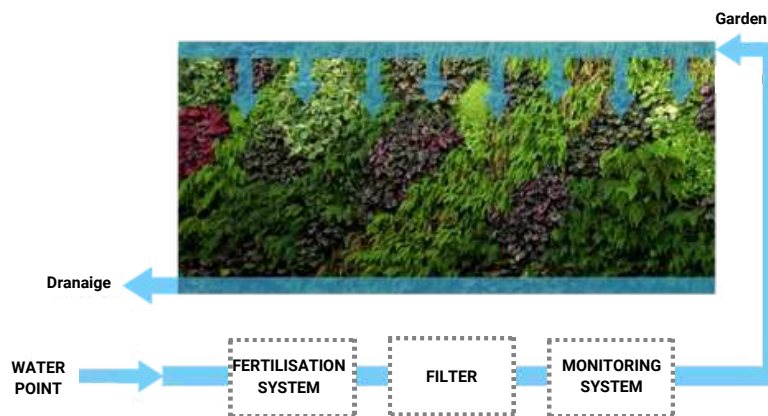
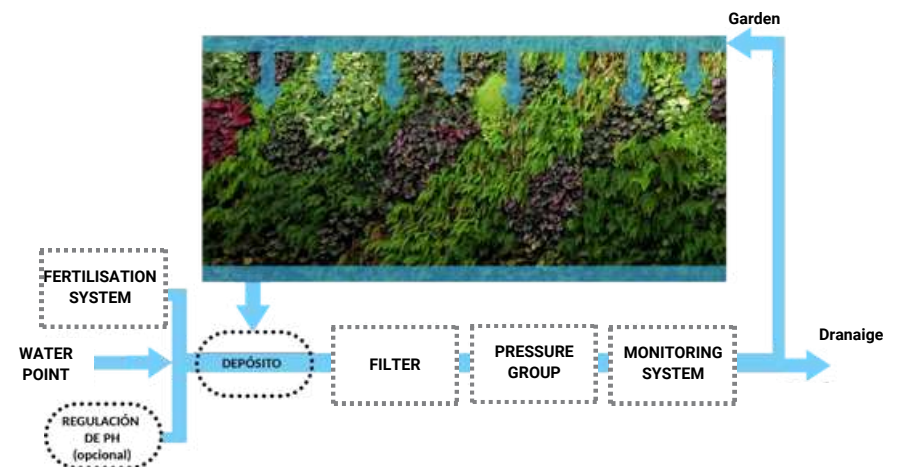
This is a hydroponic system that provides fertiliser during irrigation, keeping the vegetation in perfect condition. The excess water is collected at the lowest point.

# 04

## IRRIGATION SYSTEM

### WATER RECIRCULATION: SG-A24R IRRIGATION SYSTEM

The SG-A24R irrigation system allows for maximum water savings since consumption is reduced to almost only evapotranspiration and water consumed by the plants. In a Mediterranean climate, water consumption during winter is approximately 1 liter per square meter per day, while water consumption during summer is around 5 liters per square meter per day.



### CONTINUOUS WATER DRAINAGE: SG-A24P IRRIGATION SYSTEM

The SG-A24P irrigation system minimizes the space required for the irrigation system. Therefore, it is recommended for projects where the available installation space is very limited.

# 05

## COMMITMENT MAINTENANCE

### FREE GARDEN MONITORING

Installation of SG-A24 irrigation system with remote control and alarms

### 100% FREE ADVICE

Whether we carry out the maintenance service ourselves or another company.

### MAINTENANCE SERVICE

Carrying out all the necessary maintenance work: start-up and monthly maintenance of the irrigation system, pest control, pruning, remote control of the irrigation system, etc.

### PLANT GUARANTEE

100% plant guarantee in our maintenance services.









# 06

## WHO ARE WE?

At SingularGreen, we specialize in providing cities with green spaces through **Nature-Based Solutions** and the **integration of architecture and vegetation**, with the aim of improving the quality of life for those who inhabit them.

That's why we don't just design, we take action by creating all kinds of **unique landscaping projects**.

Innovation is in our DNA, and our R&D department has been conducting constant research for over **15 years to develop our own technology**, adapting to each environment.

At SingularGreen, we are passionate about what we do, and we are characterized by **creating creative solutions for your project**, offering comprehensive advice, execution, and maintenance services, always adapting to your needs.

**SingularGreen: Creative Solutions Based on Nature.**





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