Singular Breen

LIVING WALL

F+P





Coliving Suiters, Alicante, 2022



Torre Realia, Barcelona, 2020

01 LIVING WALL F+P

Based on our experience, with over 10,000 m² of vertical gardens created using various systems, **F+P** is our winning solution for all types of gardens, both indoors and outdoors.

This is a garden system with a **specific inert substrate** designed for hydroponic vertical gardening, made up of SG-L40 panels.

Thanks to the characteristics of this substrate, constant root aeration is ensured, enabling optimal plant development both **indoors and outdoors.**

These panels retain and distribute water exceptionally well, allowing for a wider variety of plant species and ensuring the plants can withstand extreme temperatures.

Resistant to **extreme temperatures**

Higher species possibility

Ease of assembly

Root **aeration**



02DESCRIPTION OF SYSTEM

SYSTEM TYPE: Hydroponic, with inert substrate.

LOCATION: Indoor and outdoor.

MANUFACTURING: Waterproof SG-P35 support panels with mechanically fixed SG-L40 substrate panels.

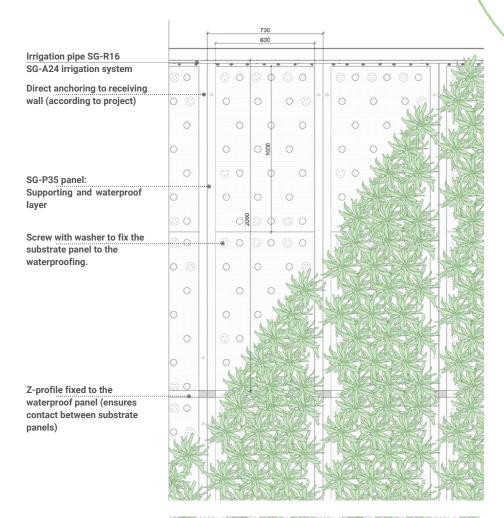
INSTALLATION: Panels pre-assembled in our facilities, ready to be fixed to the support, install the irrigation system, and plant the selected plant species.

REQUIREMENTS: Water supply point, power supply point, and connection for water outlet to return or drainage.

IRRIGATION TYPE: SG-A24 hydroponic system adapted to the scale of the vertical garden, with the option of recirculating lost water.

The main advantage of this system is its lightweight design, which does not exceed **50 kg per square meter**. Therefore, it is the ideal system for large-scale vertical gardens.





G-L40 PANEL:

Synthetic substrate panel specifically for vertical hydroponic gardening

Water collection system Metal channel



TYPICAL COMPOSITION OF THE SYSTEM

The F+P system is composed of SG-L40 panels made of inert substrate, specifically designed for hydroponic vertical gardening. These panels are mechanically fixed to waterproof SG-P35 support panels that are anchored to the support wall.

The vegetation is established by planting selected plant species at a rate of 20 to 40 units per square meter in the existing holes in the substrate.



BEARING AND RETAINING LAYER

DIRECT ANCHORING:

Metal screw with dowel, according to project.



SG-P35 PANEL:

35 mm thick cellular PVC panel, anchored by screws to the garden wall, with joints and holes sealed with polyurethane mastic.



PLANT SUPPORT

SG-L40 PANEL:

Synthetic substrate panel specifically for vertical hydroponic gardening, 40 mm thick.



PLANT SUPPORT FASTENING

Plastic washer Ø60 mm. and metal screw for fixing self-supporting rigid insulating materials.



VEGETABLE FINISH

Plant species selected by the SingularGreen technical team according to the project and climate zone, at a rate of 20-40 plants/m².



IRRIGATION PIPE

SG-R16 PIPE:

16 mm diameter pipe with self-compensating and anti-drainage drippers with fixed flow rate, separated according to project requirements.



WATER COLLECTION SYSTEM

Metal channel with water outlet, recirculation or drainage.

ESQUEMA SISTEMA F+P



Spain's largest vertical garden





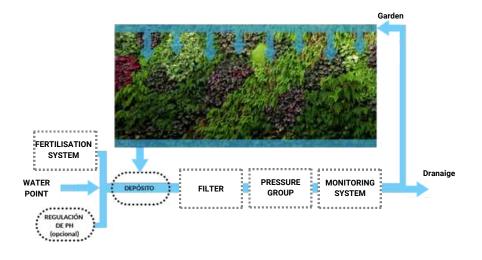


Vertical garden Vitoria Conference Centre, 2014

04IRRIGATION SYSTEM

WATER RECIRCULATION: SG-A24R IRRIGATION SYSTEM

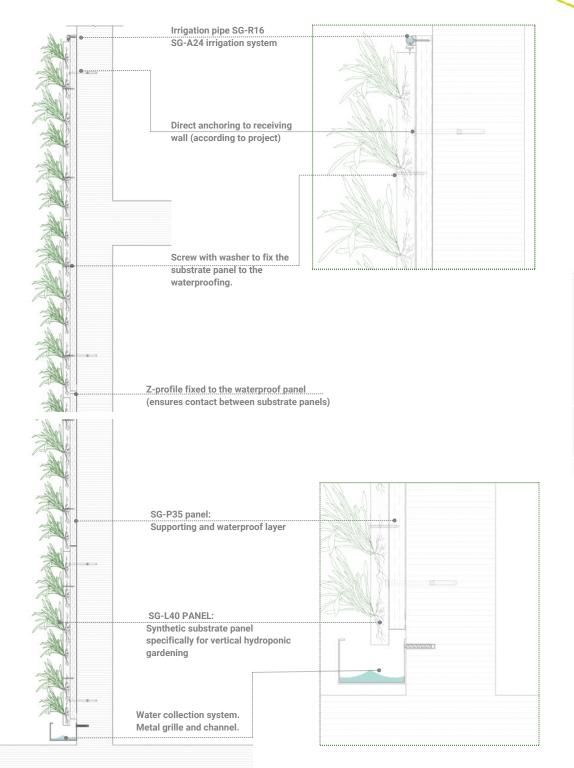
The SG-A24R irrigation system allows for maximum water savings since consumption is reduced to almost only evapotranspiration and water consumed by the plants. In a Mediterranean climate, water consumption during winter is approximately 1 liter per square meter per day, while water consumption during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



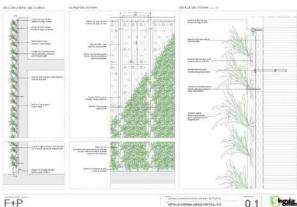


CONTINUOS WATER DRAINAGE: SG-A24P IRRIGATION SYSTEM

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.



DETAIL GENERIC CONSTRUCTION



DETAIL GENERIC CONSTRUCTION DWG



DETAIL GENERIC CONSTRUCTION PDF



Easy maintenance and replacement of plants







Canal de Isabel II, Madrid, 2020

O6 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.



Vitoria Conference Centre, 2014





El Corte Inglés, Valladolid, 2020

TECHNICAL DOCUMENTATION

APPLICABLE REGULATIONS

- CTE. DB HS Health and Safety.
- CTE. DB SI Fire Safety.
- CTE. DB-HE Energy Efficiency.
- NTJ 11V Vertical Landscaping.

*This regulation is mandatory in Spain. If the work is to be carried out in another country, please consult the specific regulations of that country.

SPECIFICATIONS



08WHO 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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