

VERTICAL GARDEN ECO BIN



Vertical garden Nando's Restaurant, London.

01 VERTICAL GARDEN ECO BIN

The Eco Bin system stands out for its unique design and finish.

It is a panel of bottle racks with ceramic pieces that are intercalated and used as a planting medium for the garden.

In each hole is located a plant that takes water from the watering water from the panel behind the garden. Suitable for spaces where a ceramic finish is required.



02 DESCRIPTION OF THE SYSTEM

TYPE OF SYSTEM: Hydroponic, with inert substrate.

LOCATION: Outdoor and indoor.

MANUFACTURING: Factory of ceramic pots with aerating substrate and retentive substrate that are intercalated and used as a planting medium in the garden.

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

NEEDS: Water point, light point and water outlet connection to drainage.

TYPE OF IRRIGATION: SG-A24P system, characterised by continuous water drainage.

The main advantage of this system is its design, combining the plants with the ceramic-finished bottle racks.



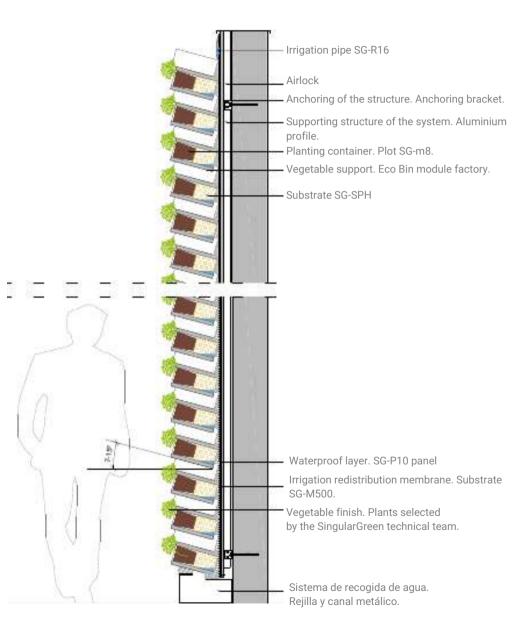


Flexible design



Teatre del Raval vertical garden, Barcelona





O3 Type composition of the system

EcoBin system is composed of a supporting structure, waterproof panel, irrigation redistribution membrane and planting medium formed by a factory of ceramic bottle racks with aerating and retaining substrate.

Plant finish with species selected for the climate of the area.



BEARING AND RETAINING LAYER

ALUMINIUM PROFILE Anodised aluminium profile with a rectangular cross-section of 40x40x30 mm.



DIRECT ANCHORING

Zinc-plated self-drilling screw with hexagonal head and flange, DIN 7301.



ANCHORING BRACKET:

AISI 304 stainless steel anchoring bracket. Dimensioned according to wind load stresses and condition of the support.



WATERPROOF LAYER

SG-P10 PANEL

10 mm thick foamed PVC panel, anchored by screws to the supporting structure with joints and holes sealed with polyurethane mastic.



IRRIGATION REDISTRIBUTION MEMBRANE

GEOTEXTILE SG-M500

Non-woven mineral geotextile with double membrane, thickness 3.8 mm, anchored by means of stainless steel staples.



PLANT SUPPORT

ECO BIN MODULE FACTORY Factory of waterproof ceramic bottle racks of 90 mm internal diameter, received with M5.L cement mortar.



SUSTRATUM

G-SPH: Substrate formed by dehydrated sphagnum moss, rehydrated to be placed inside Eco Bin racks.



PLANTING CONTAINER

SG-m8 PIPE: Biodegradable container made of vegetable fibres, 80% wood fibre and 20% blonde peat.



VEGETABLE FINISH

Plant species selected by the SingularGreen technical team according to the project and climate zone. Density at a rate of two units per Eco Bin module.



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.



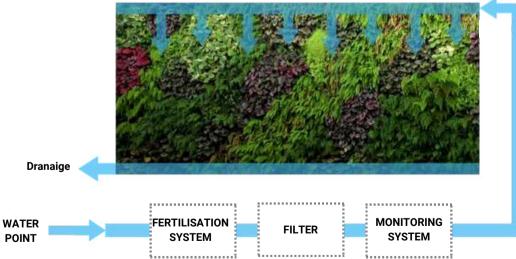
WATER COLLECTION SYSTEM

Metal channel with water outlet, to recirculation or to drainage

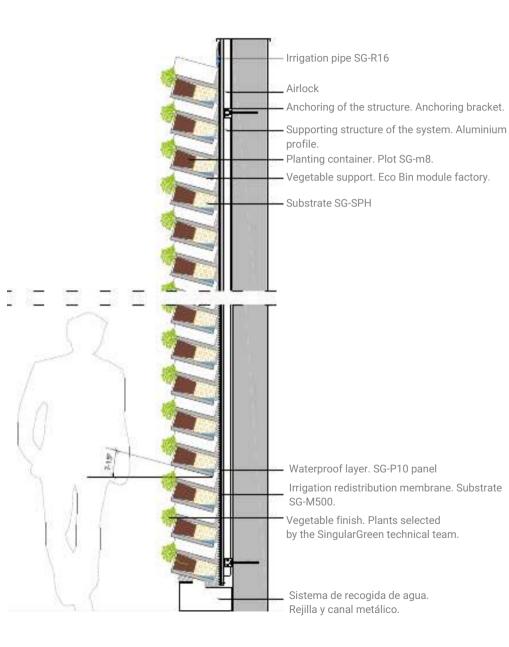
04 IRRIGATION SYSTEM

CONTINUOS WATER DRAINAGE: SG-A24P IRRIGATION SYSTEM

The SG-A24P irrigation system is characterised by the fact that it carries out programmed watering according to the water needs of the garden. These irrigations are introduced into the control system, which is responsible for opening and closing the water flow to the garden. This system also reduces the space required for the irrigation system to a minimum.



Garden



05 Detail Generic construction

DETAIL DETAIL GENERIC CONSTRUCTION DWG PDF







Improved sound insulation



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06 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.



Vertical garden teatre del Raval, Barcelona



07 TECHNICAL DOCUMENTATION



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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





08 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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singulargreen.com

info@singulargreen.com +34 966 282 640 +34 673 768 624

