

# OPTIGREEN

**New product release**

**Optigreen Ltd**

12<sup>th</sup> May 11

For immediate release

## **Optigreen Wall Garden at GreenbuildEXPO**

### **IN BRIEF:**

- **Feature:** Company info for Greenbuild EXPO
- **Client:** Optigreen Ltd

The latest addition to the comprehensive range of Optigreen green roofs is the 'Wall Garden' system for use on external facades and interior walls or as a partition or screen.

In addition to its visual value, the Wall Garden insulates, weatherproofs and retains rainwater while also absorbing and reflecting sound. It can be used with rainwater harvesting or attenuation systems and, once established, helps cool and moisten the air, capture and filter fine particles and absorb CO<sub>2</sub>. It ultimately improves the microclimate and provides additional habitat for insects and birds.

The 'Wall Garden' system is a facade-mounted greening solution which works on the principle of providing a substrate without connection to the ground. The core of the system is a high grade, substrate-filled aluminium cassette that can be delivered filled and ready-planted. Horizontal suspension rails are bolted onto the substructure before the prepared aluminium facade is fixed. Facades are available in a choice of colours including natural aluminium (standard), lava-brown or other RAL shades to order. Fillings include pumice stone (white), lava (brown), tuff (beige-brown) and brick chippings (red). The facade element is encased in an aluminium frame and creates an attractive walled garden appearance, even without planting or in winter.

In addition to standard facade sizes, custom-made designs can accommodate specific structural requirements. Assembly and installation is quick and the ultimate substrate culture provides improved frost-resistance and increased levels of water retention. The system can be pre-planted for delivery to site in accordance with a designated planting plan while individual facade elements, plants and drip irrigation can be removed independently for inspection or replacement.

Because there are no ground roots, facade-based greening systems require a permanent water and nutrient supply source. The Optigreen 'Wall Garden' irrigation system uses proven software to optimise water consumption and circulation, while humidistats measure substrate humidity. Excess water is collected in the facade elements' drainage channel and discharged unnoticed into a collection tank for reuse.

Maintenance programmes are determined for each system installed, complexity depending on factors such as planting selection and seasonality.

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