

PRODUCT NAME: Flower&Wall

Product description: Modular panel system for vertical gardens



The modular "Flower&Wall" panel system represents the latest innovation in building greening, a modern, sustainable method that can easily transform any grey surface into a green oasis. The plants are placed in a substrate specially designed for vertical growth; thanks to the professional irrigation system and growing medium, the plants receive all the nutrients and hydration necessary for healthy growth, so that the vegetation has a vibrant and multi-coloured appearance. The system is characterised by a low weight; it offers a versatile solution for greening, with multiple possibilities of use for almost all types of walls. It can be installed on both existing, retrofitted and new buildings; it can be installed in any desired shape and size, even on surfaces with curved, wavy lines. The profiles are corrosion resistant and can be installed both horizontally and vertically, depending on the shape and layout of the supporting wall.

Quality is the most important factor in the design of the modular system, so plants are chosen with care. The most hardy perennial plant species are used, in different colours, shapes and textures. Several important factors are taken into account in the design, such as the specific microclimate, building position, wall exposure, individual requirements, desired aesthetic impact, etc. Consideration should also be given to the way the plants grow (upright, climbing or spreading), as there is likely to be competition for sunlight between plants after installation.

The system provides instant green cover of at least 90% at the time of installation; the plants in the modules are pre-cultivated, well developed and rooted in the substrate. The automated irrigation and drainage system guarantees a constant and efficient water supply. A pressure-compensated drip tubing system ensures even distribution of nutrients and moisture. Water collected from the roof can also be used for irrigation, the plants absorb water from the panel structure by capillary action.

ADVANTAGES

- Plants incorporated into the living wall increase biodiversity, improve air quality and create a favourable microclimate; they protect the facades and the building structure from high temperature fluctuations.
- It is a versatile system that can be used for façade greening, noise and heat protection, urban gardening, herb gardens, windbreaks, replacement hedges, etc.
- Due to the modular structure, there is no limitation in size and shape.
- Contributes to achieving Sustainable Development targets (EU Biodiversity Strategy 2030), can contribute to achieving BREEAM and LEED points.

PROPERTIES

- The system complies with fire classification standards set by European regulations.
- All materials in the system have been selected for their fire resistance properties. In addition, the green façade can store approximately 35 litres of water/sqm, which serves as an additional protective buffer.
- It is made of durable and fully recyclable materials.
- The special mixture of substrate and absorbent hydrophilic mineral wool effectively reduces evaporation of irrigation water. Drained excess water is recirculated.
- Each living plant module can be effortlessly inserted into the wall or replaced.

PACKING

- Sizes: customization by design



INSTALLATION

- The system can be mounted on all concrete, stone, wood or steel facades with suitable structure, which can bear a load capacity of 80 kg per m².
- The panels are mounted as part of a vertical construction made of aluminium profiles with "omega" section.
- Before the system is installed on the facade, the irrigation system is connected to the water supply and drainage and recirculation system and then integrated into the water network.
- Requires regular maintenance based on a customised plan.

TECHNICAL DATA SHEET

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General technical data		Unit	Tolerance	Standard
Coverage	95	%	1%	
Dry weight	20-25	kg	5%	Ecstr std 03
Water saturated weight	42-47	kg	5%	Ecstr std 03
Height	60	cm		
Width	50	cm		
Depth	10	cm		
Pieces/m ²	3,33	buc		
Plant nr. /module	Project based			
Retention capacity / m2	35	l		
Pallet dimensions	Project based			

The data are empirical values based on the current state of production and are subject to customary tolerances, but do not represent guaranteed properties. We reserve the right to make technical changes.

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