

MobiPanel is an innovative, sustainable and lightweight system for living walls on existing buildings and new development projects. Both flat and curved walls can easily be greened, owing to its unique design. MobiPanel particularly lends itself to climate-proof construction; creating a healthy and attractive living environment. The system is made up of corrosion-resistant profiles that can be installed both horizontally and vertically. This bearing structure provides room for plant cassettes in two formats, with slots for fully grown plants varying in size of pot.

BENEFITS

- Contributes to greening the living environment
- Boosts air quality by absorbing fine dust particles and generating oxygen
- Promotes biodiversity
- Raises property values
- Dampens noise and insulates
- Captures rainwater
- Provides an immediate green effect

outdoor distribution centre retail car park warehouse
property office public space hospitality school

UNIQUE FEATURES

- Suitable for flat and curved walls
- Suitable for various wall types including certain types of sandwich panels
- Interchangeable plant cassettes in two sizes (40 x 40 cm and 20 x 20 cm)
- Economical water consumption
- Complies with fire classification B-s2, d0
- Reusable and fully recyclable
- Equipped with automated irrigation and drainage system
- Lightweight and space-saving
- Modular system
- Easy to install against new and existing facades and internal walls

TECHNICAL INFORMATION

DIMENSIONS AND WEIGHT

- The system is made up of cassettes measuring 40 x 40 cm and pixels of 20 x 20 cm.
- The omega profiles and covers have a standard size of 120 cm for efficient transport. They can be custom-made for large projects.
- Maximum system weight when fully planted: 40 kg/m².

PROFILES

The omega profiles are made of high-quality and extremely corrosion-resistant Magnelis steel. The punched-hole pattern is suitable for both vertical and horizontal installation of the profile. This provides space for passing water pipes and electricity cables through with ease. In addition, this allows use on both flat and curved backing walls.

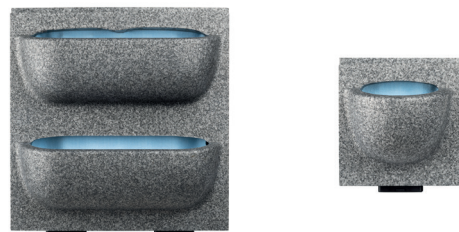
MATERIALS

The cassettes, pixels and covers are made of fire-retardant EPP (B-s2, d0). This material is light, UV-resistant, breathable (for good root growth) and is fully recyclable.

CAPILLARY ACTION

An automated irrigation system provides water and nutrients to the MobiPanel green wall. An irrigation pipe along the top of the wall supplies water to the cassettes and pixels.

Each cassette and pixel is fitted with a capillary matting with capillary action to ensure even water distribution. All the plants receive the correct quantity of water and nutrients in this way. Extremely efficient and low water consumption is the result.



RECOMMENDATION

It is recommendable to involve Mobilane as early as possible in the design and construction process to ensure optimal design for the technical requirements, such as the irrigation system and the piping and cabling.