



LivingPANELS



nature
base



We believe in
shifting horizons!

Our Approach

The first affordable, fully integrated facade greening system designed to support climate protection."

Through construction and land sealing measures, a global loss of green spaces can be observed. In view of changing climate conditions, increasing air pollution, and the growing development of urban heat islands, facade greening systems can serve as an urban adaptation strategy to address these challenges.

The advanced design of LivingPANELS is characterized by a range of innovative functional and structural solutions.

RESEARCH AND DEVELOPMENT PARTNERS



Research & Development

Our results speak for themselves.



Simulations

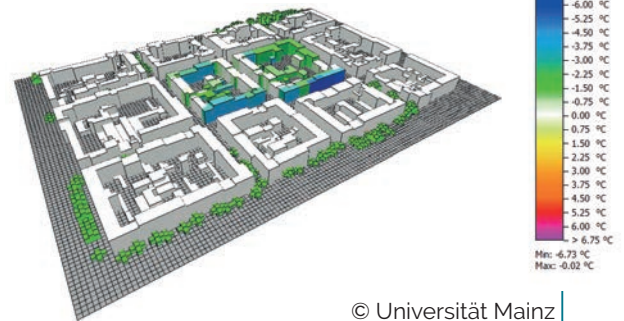
Microscale simulation model

- Microclimatic performance analysis using the ENVI-met simulation model
 - 3D energy balance modelling of cooling effects
- Analysis of heating and cooling processes of different surface types
- Calculation of thermal performance during heatwave conditions

Experimental sites

Vienna / Groß-Enzersdorf / Bonn / Plovdiv / Hünfingen

- Microclimate and building physics sensor data
- Vegetation monitoring and optimized plant selection
- Development of an automated irrigation and fertilization system
- Enhanced insulation performance through carefully selected components
- Continuous technical advancement of the system



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Sensor Technology

Irrigation and Maintenance

- Demand-based irrigation controlled by sensors
- Minimal water consumption through optimized water distribution and storage
- Greywater utilization possible
- Remote monitoring for consumption tracking and fault detection, including real-time notifications

Vegetation Performance

Innovative Vegetation Carrier

- Excellent plant growth through optimized water and nutrient supply
- Scientifically tested plant selection tailored to location and exposure
 - High biodiversity and habitat for protected species
 - Winter-hardy and long-lasting greenery through innovative substrate components



Why Choose Our System

Key Benefits of LivingPANELS



Improving the Urban Climate

During photosynthesis, plants release water through evapotranspiration, cooling both themselves and their surrounding environment.



Facades represent the largest surface areas in urban environments.

Unlike trees and open green spaces, facades do not compete for land or urban space. Buildings equipped with LivingPANELS can remain up to approx. 8°C cooler indoors.*



Breakthrough Innovation

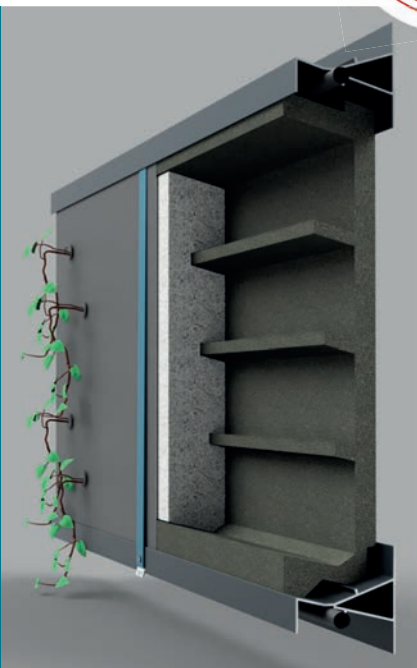
LivingPANELS are built on over 15 years of R&D in materials, irrigation technology, and implementation processes.



Resource Efficiency

Resource conservation is ensured through the reusability of components and a carefully considered selection of materials.

* based on a GREENPASS simulation



® Internationally protected design

Scientifically Proven Plant Selection

Tailored to location and exposure

Fully Green Upon Completion

Through Pre-Cultivation

High Biodiversity

Habitat for Protected Species /
Bee-Friendly Environment

Winter-Hardy and Long-Lasting Greenery

enabled by innovative substrate components



Complete System Structure

Including enhanced insulation properties

Innovative Vegetation Carrier

with optimal water and nutrient supply

Demand-based irrigation

Sensor-controlled with minimal
water consumption

Easy installation

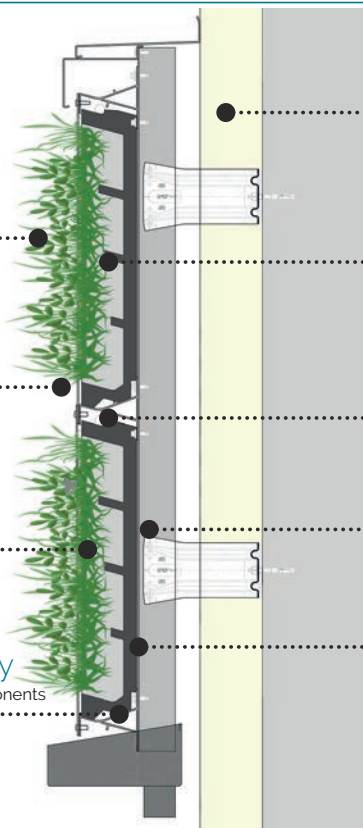
and removal – plug-and-play system

Lightweight

Total weight < 50kg/m²

Remote Maintenance

for consumption monitoring
and fault detection





Green from Day One
through pre-cultivation.

Natural. Innovative. Sustainable.

Unique vegetation carrier and automated irrigation system

Optimized water distribution and efficient water and nutrient retention

Enhanced thermal comfort indoors and outdoors

Enhanced sound insulation around the building and reduced indoor noise levels

Long service life through the use of durable components

High UV resistance, fire resistance, and wind load tested



Ready to start your green Transformation?

We bring our innovation directly to you!

Aesthetics & Design

Impressive natural experience

- Natural appearance
- Wide design flexibility through a diverse range of suitable plants
- Visible system components can be color-customized
- Adaptable design for existing building structures
- Attractive appearance even in winter

True innovation
works everywhere
– in every season.





Fast and easy
plug-and-play installation.

LivingPANELS

LivingWalls for Energy Facilities



(© Franziska Hackl)

LivingPANELS

LivingWalls for Transport Infrastructure



LivingPANELS

LivingWalls for Industrial & Commercial Buildings



LivingPANELS

LivingWalls for Residential Buildings



LivingPANELS

LivingWalls for Healthcare Facilities



LivingPANELS

LivingWalls for Industrial Buildings



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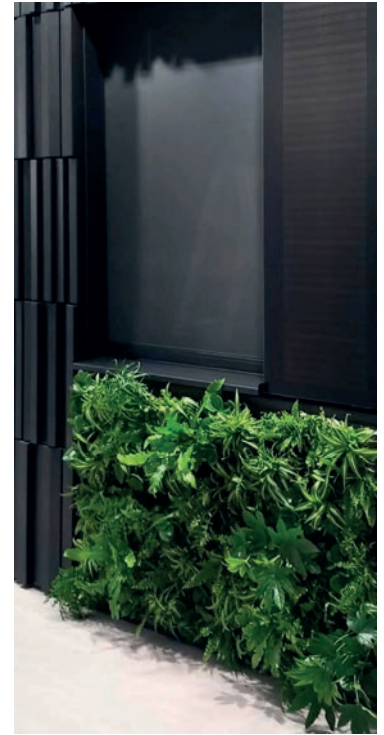
LivingPANELS

LivingWalls for Healthcare Facilities



LivingPANELS

LivingWalls for Office Buildings



CONTACT

NatureBase GmbH

DC Tower 1,
Donau-City-Straße 7, 30. Stock,
1220 Vienna, Austria

+43 664 107 10 19

+43 664 390 43 99

office@**naturebase.at**

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