



VER
TIKO

Vertiko LivingSYSTEMS

LivingWALL PLUS

Full-surface, rear-ventilated
façade greening system

WE CREATE OASES FOR PEOPLE. AND PROPERTY VALUE.

People living in cities long for openness and a connection with nature. It is time for urban spaces to invite people to breathe again – offering a liveable, healthy city climate. Imagine the city becoming an oasis for people and a place for enduring property value with a green future.

As a system manufacturer, we develop innovative façade greening products for private and public clients, architects, planners, and contractors. Our green façades can be planned with confidence, implemented efficiently, and operated sustainably over the long term.


Let us work together to green our cities so that people can breathe freely. We bring nature back to people. And cities back to nature.





LivingWALL PLUS – A PROVEN SYSTEM. CONSISTENTLY ADVANCED.

LivingWALL PLUS is the logical evolution of our LivingWALL system, which has been proven in practice for over 10 years. With this new generation, we have made targeted improvements: pre-sewn fleece modules simplify installation, reduce on-site processing steps, and improve handling, cost-efficiency, and planning reliability. With fire protection class A2, LivingWALL PLUS also meets a key requirement for demanding façade projects.



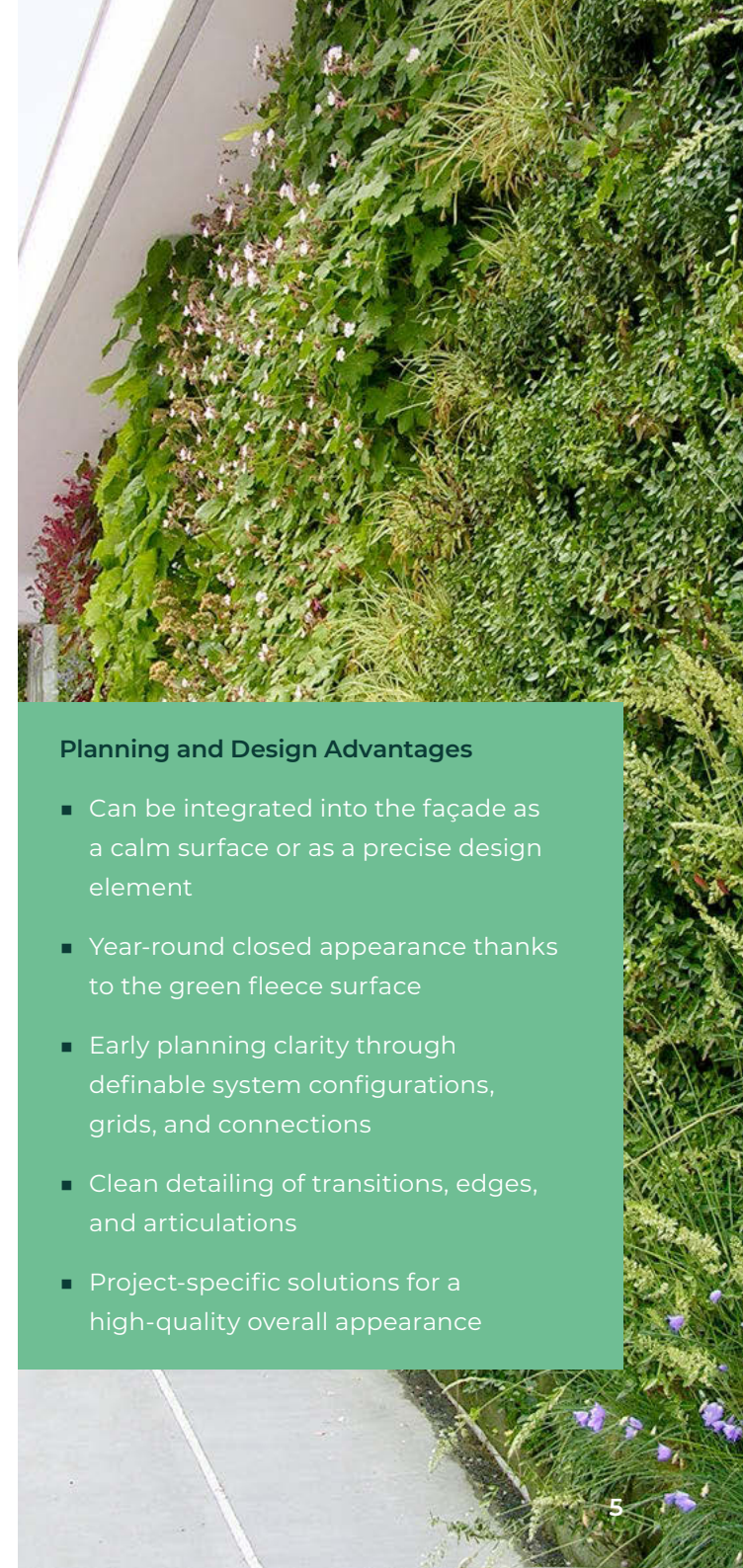
Key innovations

- Pre-stitched fleece modules replace the previous on-site processing of fleece layers.
- Fewer processing steps simplify installation and facilitate handling on site.
- More efficient workflows support cost-effective implementation.
- Fire resistance class A2 meets a key requirement for demanding façade projects.

LivingWALL PLUS – DESIGN FREEDOM. RELIABLY PLANNABLE.

LivingWALL PLUS offers architects and planners extensive creative freedom whilst integrating seamlessly and securely into façade planning. The system supports precise detailing of grids, connections, and transitions, and ensures a coherent appearance throughout the year.





Planning and Design Advantages

- Can be integrated into the façade as a calm surface or as a precise design element
- Year-round closed appearance thanks to the green fleece surface
- Early planning clarity through definable system configurations, grids, and connections
- Clean detailing of transitions, edges, and articulations
- Project-specific solutions for a high-quality overall appearance

GREEN FAÇADE SYSTEM MEETS BUILDING TYPE.



Structural requirements

- Load-bearing wall for attachment of the structure
- Structural assessment of fixings and load transfer
- Sufficient space for the system build-up and rear ventilation (including connections to parapet, windows, and reveals)
- Frost-free plant room for irrigation technology and power supply
- Fresh water supply and wastewater connection
- Accessibility for care and maintenance
- Commitment to ongoing maintenance and upkeep of the product
- Where required: treatment of mains water to adjust water quality





LivingWALL PLUS REAR-VENTILATED, INNOVATIVE, VERSATILE.

Product Specifications – LivingWALL PLUS

- Full-surface, rear-ventilated façade greening system
- Supplied pre-assembled on a PRO+ substructure
- Pre-sewn fleece module for easy handling during installation
- Individually adaptable to virtually any geometry
- Water-saturated weight: max. <math>< 30 \text{ kg/m}^2</math>
- High structural capacity through load transfer into the wall
- Structural separation of irrigation and vegetation carrier
- Irrigation with remote monitoring and fertilisation
- Fire protection class A2, s1-d0
- Year-round aesthetic appeal through green fleece surface



SUBSTRUCTURE: FLEXIBLE FOR NEW BUILDS AND REFURBISHMENTS.

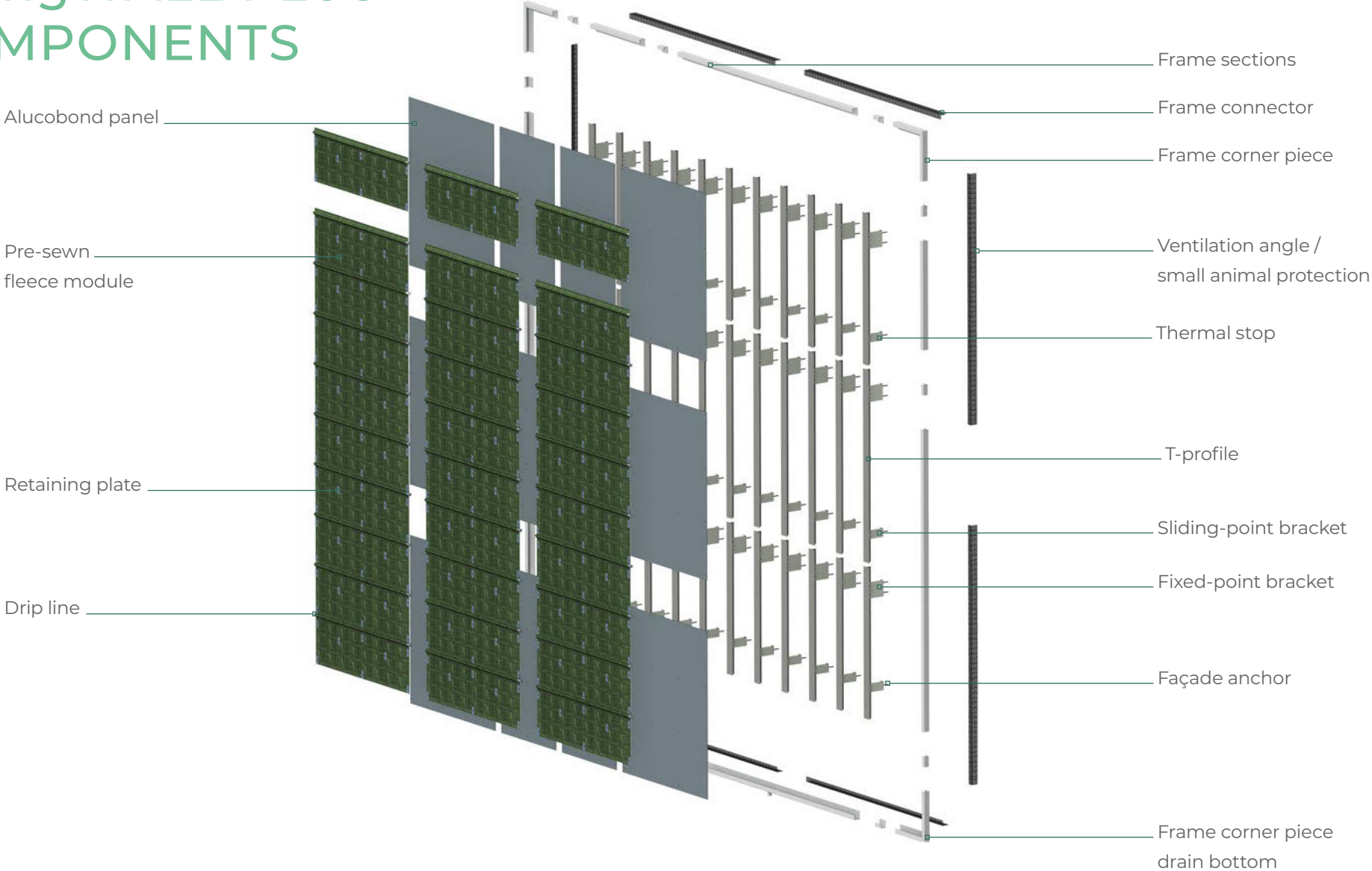
LivingWALL PLUS is a full-surface, rear-ventilated façade greening system that can be installed with or without thermal insulation. The system is clearly separated from the building structure and helps to reliably protect the building fabric from the effects of weathering.

Depending on the project, the fleece-substrate system can be built on an Alucobond or aluminium substructure supplied by our cooperation partner PRO+.

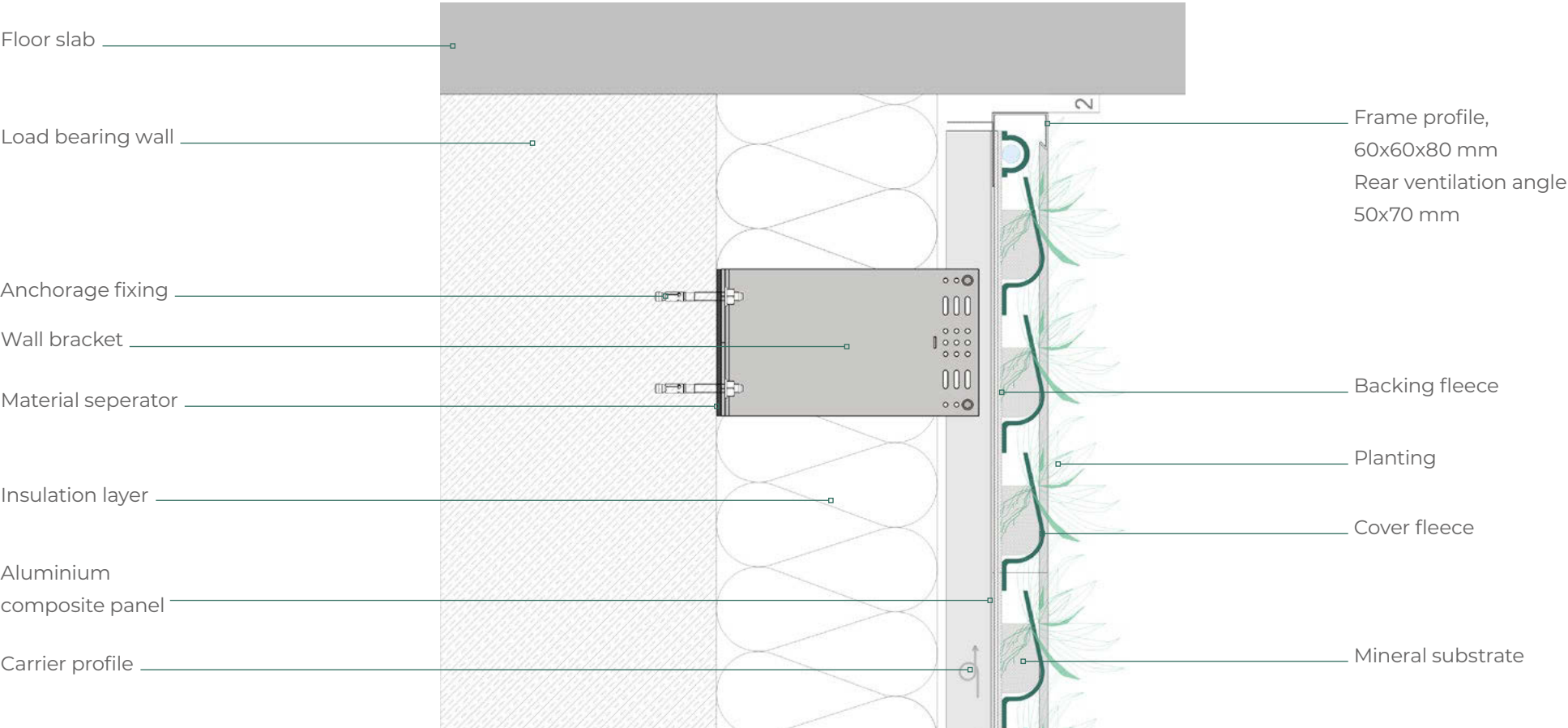
The high degree of prefabrication of the modules reduces installation effort and ensures cost-efficiency. Serial refurbishment can also be implemented effectively using this approach. We are happy to advise you on the selection of components and planning.

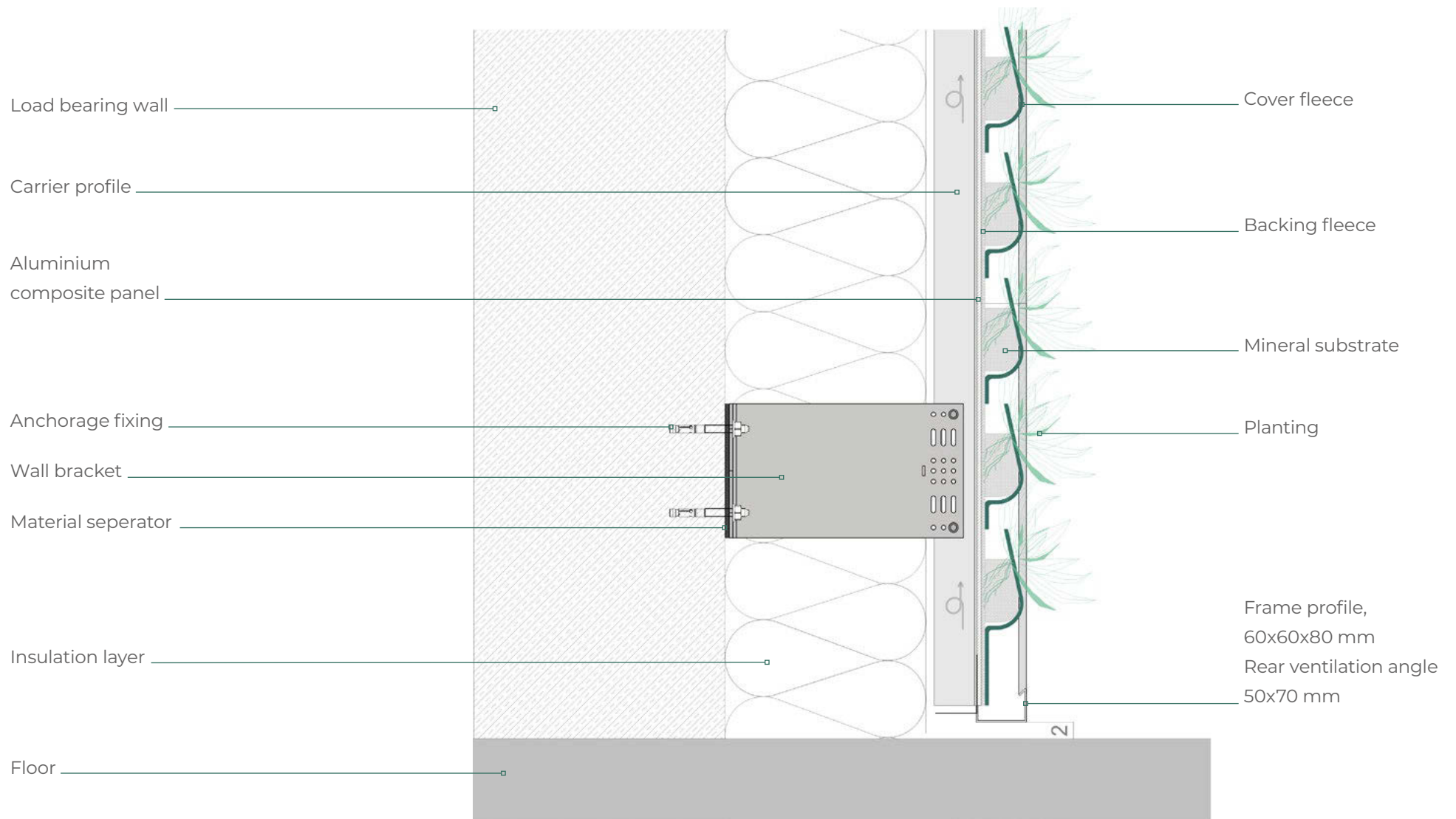


LivingWALL PLUS COMPONENTS

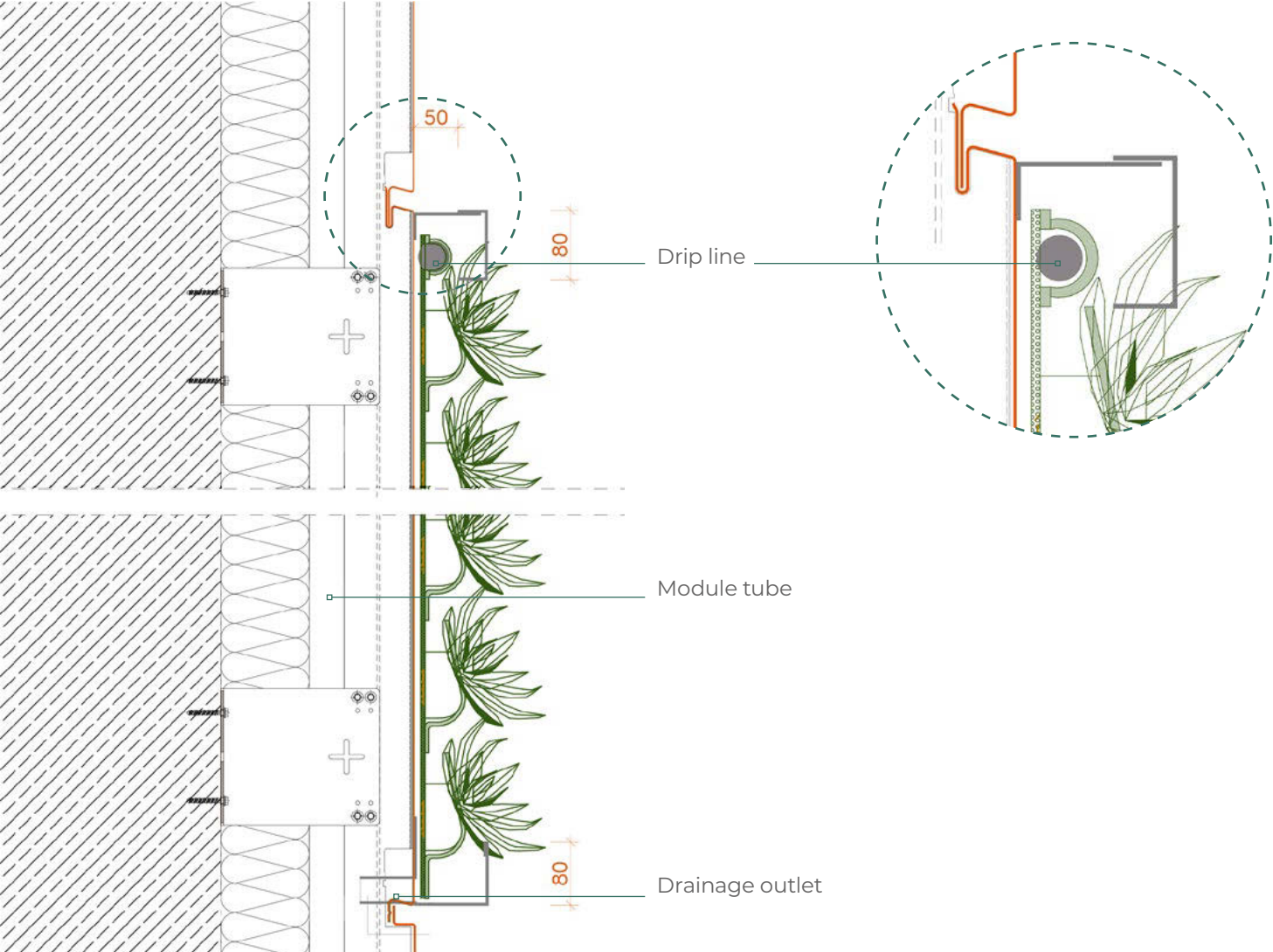


INSTALLATION ON SUBSTRUCTURE WITH ALUCOBOND PANELS





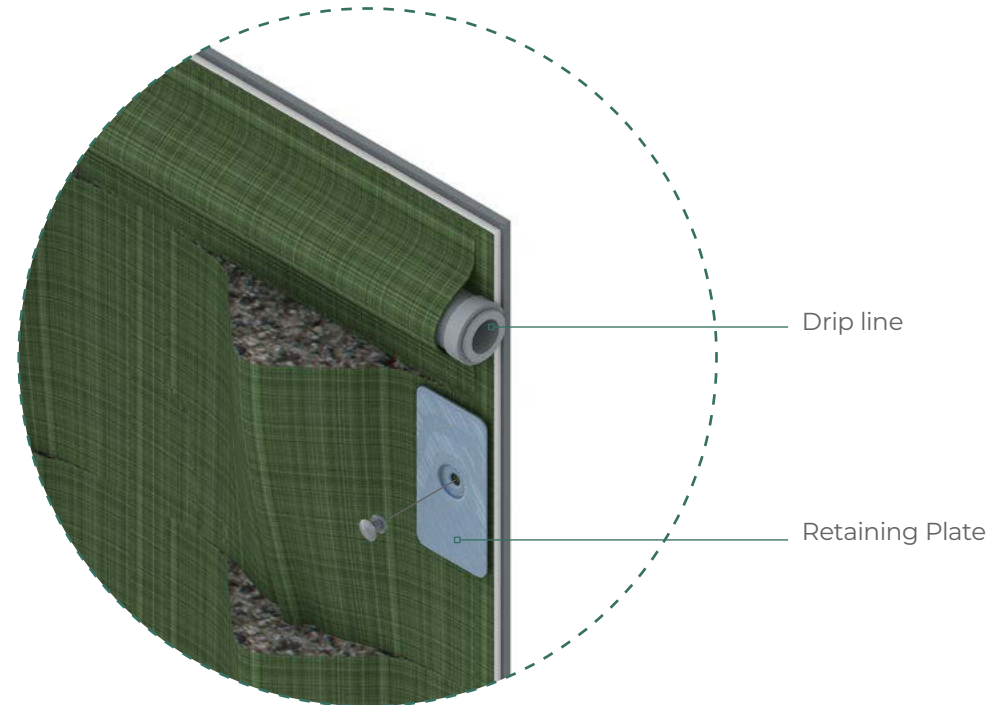
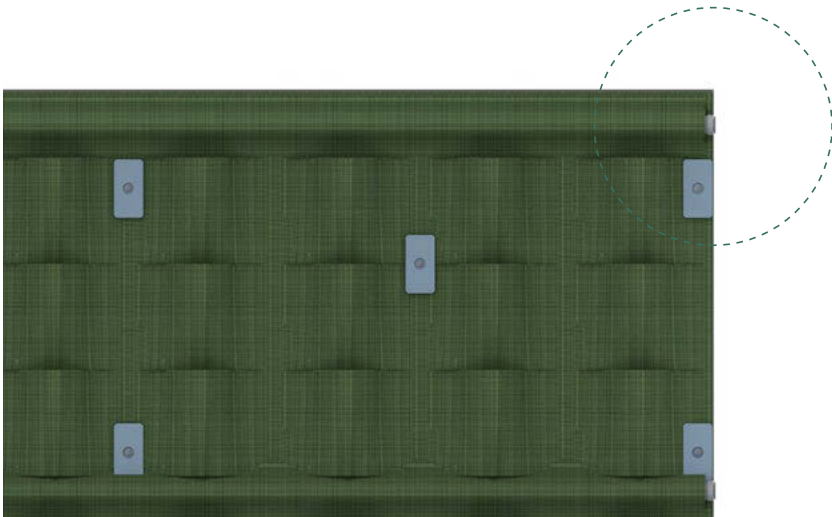
INSTALLATION ON PRO+ GREEN MODULE



PRE-SEWN FLEECE MODULE

The fleece modules are installed quickly, easily and securely using a retaining plate with blind rivets. With only a few fixing points per square metre, a seamless, high-quality façade appearance is achieved.

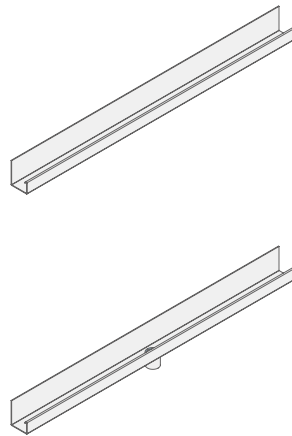
Factory pre-sewn fleece modules replace the previously necessary on-site processing of fleece layers. Fewer processing steps simplify installation, improve handling, and support efficient workflows on site.



EDGE FINISHES: THE PERFECT FRAME FOR GREEN FAÇADES.

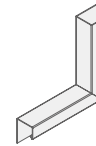
A perimeter trim is required to ensure controlled water drainage. The enclosure of the LivingWALL PLUS is planned on a project-specific basis and coordinated with the substructure.

Frame section

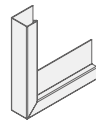
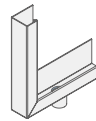
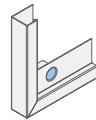


Vertical frame corner piece

Exterior

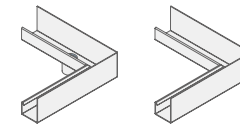


Interior

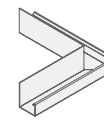
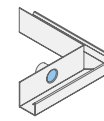
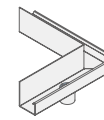


Horizontal frame corner piece

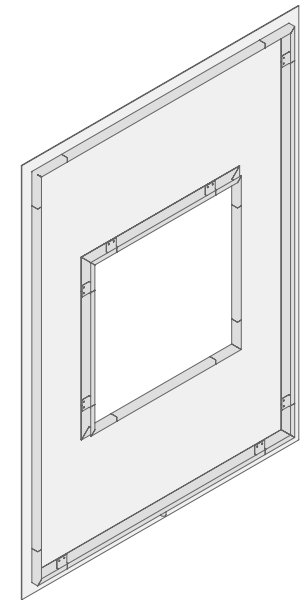
Exterior



Interior



Example of vertical construction



Drainage ●

OUR IRRIGATION SYSTEM: FOR GREENERY THAT NEVER FADES.

Maintenance & Care

- At least two maintenance cycles per year (spring and autumn) to ensure plant vitality
- Twice-yearly servicing of the irrigation system to guarantee optimal performance

Irrigation

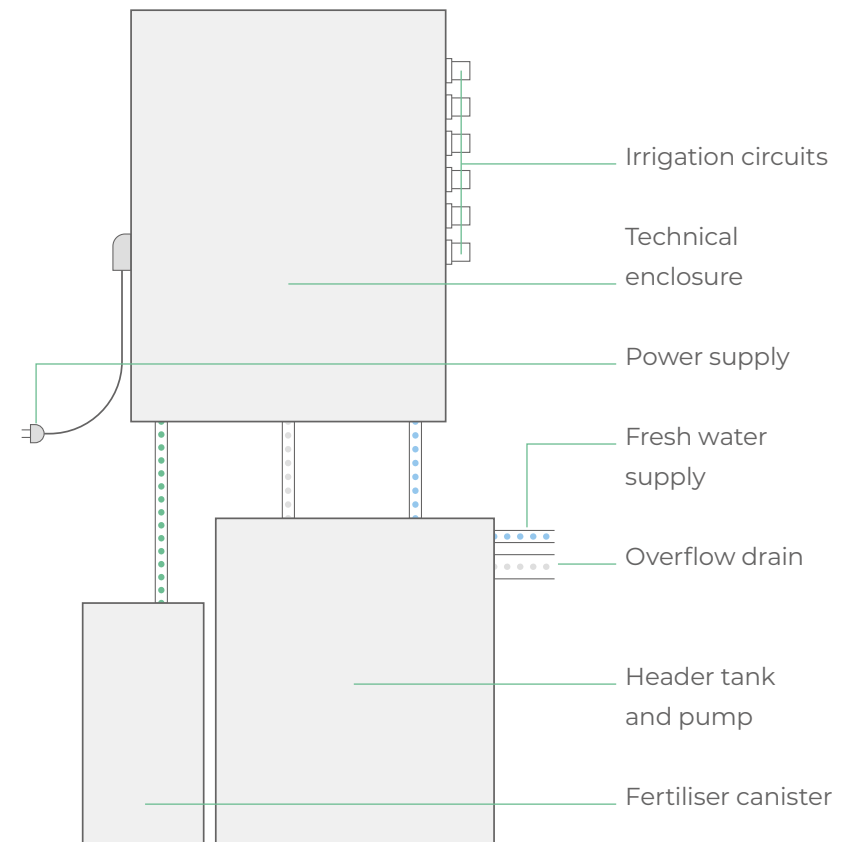
- Demand-based irrigation controlled by sensors
- Minimal water consumption through optimal water distribution and storage
- Pre-assembled, compact control cabinet for managing irrigation, fertilisation, and sensors
- Remote monitoring for consumption tracking and error detection
- Includes winter automation

Connection Points

- Wastewater disposal
- Fresh water supply
- Electrical connection
- Internet connection

Structural Requirements

- Frost-free technical room
- Space requirements for irrigation system:
 - Height: 2000 mm
 - Width of upper technical housing: 600 mm
 - Width of lower unit: 1020 mm



SUITABLE PLANTS BASED ON BUILDING TYPE, FAÇADE & ORIENTATION.

LivingWALL PLUS offers full flexibility in plant selection, precisely tailored to the building's location and exposure. This customisation ensures both aesthetic appeal and functional benefits. Plants are pre-cultivated in Vertiko's proprietary substrate, ensuring optimal growth conditions. After around three months, particularly for spring plantings, a dense plant cover develops, giving the façade a lush, green appearance. This approach harmoniously integrates plants into architectural designs, maintaining a permanently attractive façade.



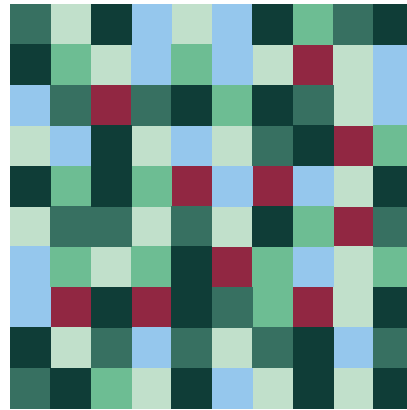
Planting Plan

The LivingWALL PLUS is supplied exclusively with pre-cultivated plants in the specially developed Vertiko substrate. For each project, we create a customised planting plan that ensures optimal growing conditions and a harmonious overall appearance.

Our planting plan always considers:

- Orientation and exposure of the façade
- Sunlight and microclimatic conditions
- Growth patterns and leaf structures of the plants

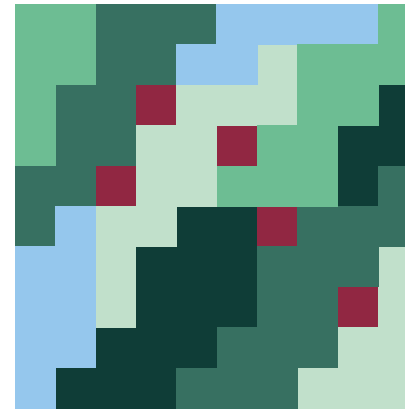
To meet both aesthetic and functional requirements, we offer a variety of planting schemes.



Mixed Planting

Natural diversity with different plant species for a vibrant appearance.

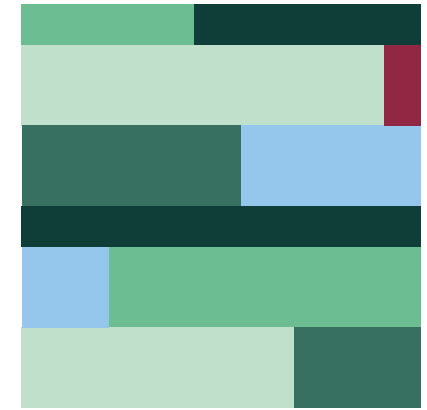
- Customisable system
- Detailed surface design
- Dynamic planting pattern
- Effective even on small areas
- High species diversity/biodiversity
- Easier to compensate for plant losses



Mosaic Planting

Harmonious, geometric patterns with contrasting plant species.

- Customisable system
- Freely meandering shapes (bands)
- Varied planting pattern
- Suitable for all surface sizes



Block Planting

Clear structure through larger areas of the same plant species.

- Customisable system
- Large-scale figures (stripes/blocks)
- Calm, structured planting pattern
- Most effective on large surfaces
- Plant losses cannot be compensated

PLANT SELECTION TAILORED TO THE SYSTEM WITH ITS CHARACTERISTICS.

| Botanical Name | English Name | Sunny | Shady | Characteristics |
|--------------------------------------|-----------------------------|-------|-------|-----------------------------------|
| 1 Alchemilla | Lady's Mantle | ■ | ■ | evergreen, good growth |
| 2 Bergenia cordifolia | Elephant's ears | ■ | ■ | evergreen, very robust |
| 3 Campanula poscharskyana | Bellflower | ■ | | deciduous, cushion-forming growth |
| 4 Festuca amethystina | Tufted fescue | ■ | | winter aspect, arching growth |
| 5 Geranium macrorrhizum | Bigroot geranium | ■ | | evergreen, vigorous growth |
| 6 Geranium sanguineum | Bloody geranium | | ■ | deciduous, good growth |
| 7 Geranium x cantabrigiense | Geranium | ■ | | evergreen, vigorous growth |
| 8 Helleborus niger | Christmas rose | | ■ | evergreen, good growth |
| 9 Hemerocallis | Daylily | ■ | | deciduous, solitary perennial |
| 10 Heuchera villosa var. macrorrhiza | Hairy alumroot | ■ | ■ | deciduous, vigorous growth |
| 11 Heuchera micrantha | Crevice alumroot | ■ | ■ | evergreen, vigorous growth |
| 12 Heuchera sanguinea | Coral bells | ■ | ■ | evergreen, good growth |
| 13 Polystichum setiferum | Setiferum: soft shield fern | | ■ | deciduous, arching growth |
| 14 Thymus | Thyme | ■ | | evergreen, vigorous growth |



Cultivation in the Innovative Vertiko Substrate

Our plants grow in the specially developed Vertiko substrate, which provides optimal conditions for root development and nutrient absorption. This purely mineral substrate combines excellent water retention with efficient drainage, preventing waterlogging while ensuring an airy, ideal root environment. These properties protect fine roots, allowing plants to be placed directly into the wall—without transplant stress and with a high success rate for establishment.

Maintenance – Ensuring Long-Lasting Vitality and Beauty

At least two maintenance cycles per year are required, supplemented by regular visual inspections to assess plant development. The key maintenance tasks include:

- Pruning of shoots (thinning, maintenance, and rejuvenation pruning).
- Removal of wilted flowers and dead plant parts.
- Pest control and replanting as needed.

Fertilisation Guide

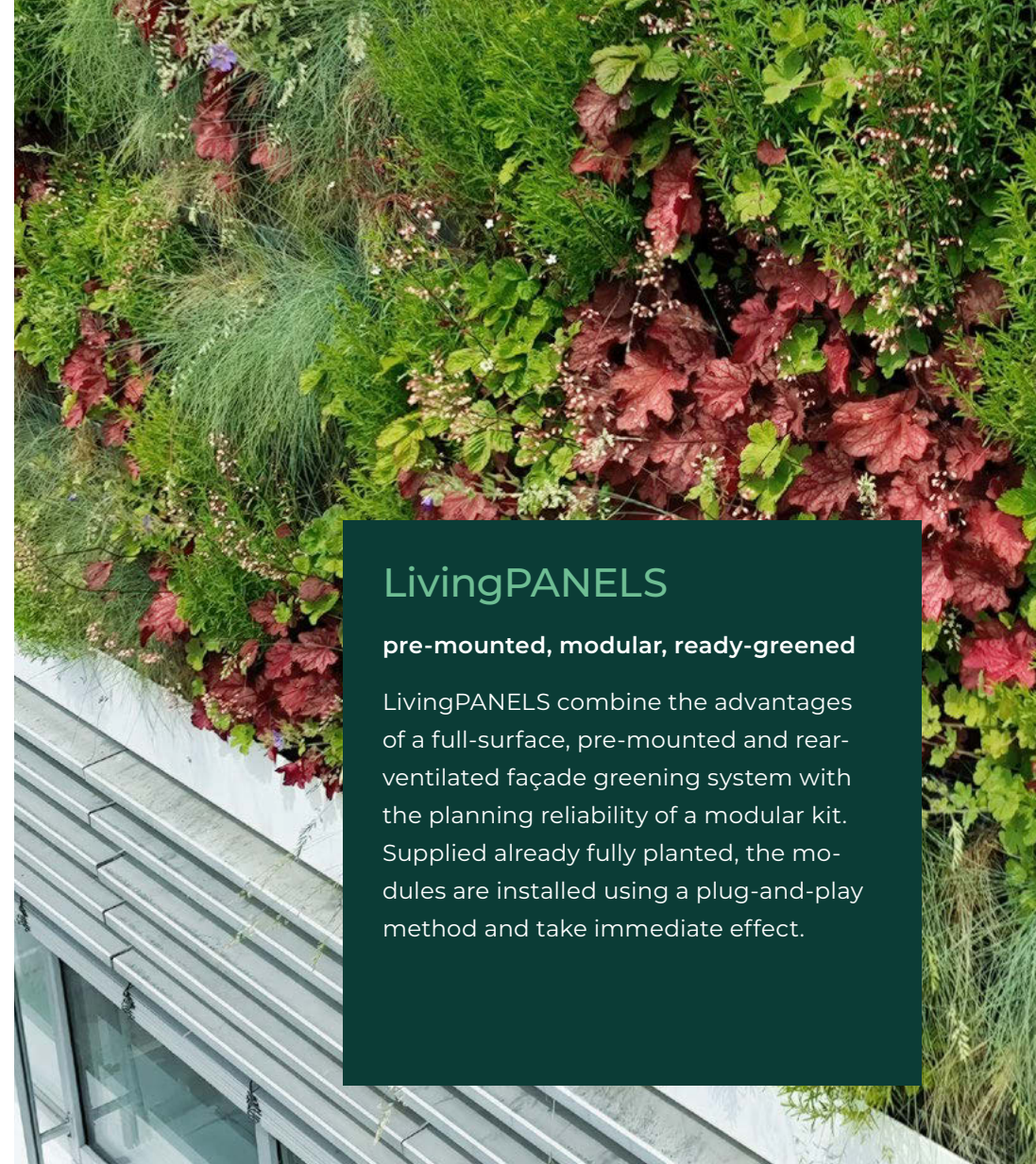
The actual water and fertilisation requirements depend on a variety of factors, including plant selection, aspect, water quality, maintenance condition, age of the plants, and the desired appearance. Should you require further information on the subject of fertilisation, we are happy to provide a supplementary information sheet upon request. The recommendations contained therein are intended as a guide only.





SURFACE-MOUNTED
OR CLIMBING:
OUR SYSTEM
SOLUTIONS FOR
GREEN FAÇADES.

LivingSYSTEMS



LivingPANELS

pre-mounted, modular, ready-greened

LivingPANELS combine the advantages of a full-surface, pre-mounted and rear-ventilated façade greening system with the planning reliability of a modular kit. Supplied already fully planted, the modules are installed using a plug-and-play method and take immediate effect.

ClimbingSYSTEMS



LivingWALL PLUS

rear-ventilated, innovative, versatile

As a full-surface, rear-ventilated façade greening system, LivingWALL PLUS allows plants to grow within a fleece, without making contact with the building structure. Pre-sewn fleece modules simplify installation and accelerate the construction process. The product is highly adaptable, offers a wide range of design possibilities, and improves the local microclimate. It meets Fire Protection Class A2.



ClimbingBASE

load-bearing, versatile, flexible

The climbing structure enables load transfer directly into the ground via point foundations or wall-mounted via brackets. This allows the aesthetically refined climbing trellis to be flexibly adapted to various wall configurations.



ClimbingMOUNT

wall-mounted, lightweight, robust

The wall-mounted structure made from GRP transfers loads into the load-bearing wall. Thanks to its very low weight and high robustness, GRP offers numerous advantages and maximum flexibility for greening buildings with climbing plants.



Which vertical greening system
is right for your project?

We're happy to help.

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Technical modifications and errors excepted.