

Modular living wall system
for indoor
and outdoor use.

Grow Vertical

PlantBox

MADE TO FIT YOUR SPACE

A wall that transforms space













PlantBox turns unused wall space into a living wall without taking up valuable floor space.

Combine just a few modules for a green accent or scale up to create a large living wall.

Choose manual watering, an automated system with its own tank, or a fully automatic solution.

How does PlantBox work?

Water fills the integrated reservoir in the top module and then cascades down into the modules below.

Capillary felt distributes moisture through the growing medium, allowing plants to absorb water as needed.

A water-level indicator makes monitoring easy, while a stopper closes the bottom module of each column.

As the plants grow, they gradually cover the structure to form a continuous green surface.



100% RECYCLED

UV-stabilised polypropylene

MADE IN THE EU

Patented system



WATERING SYSTEM

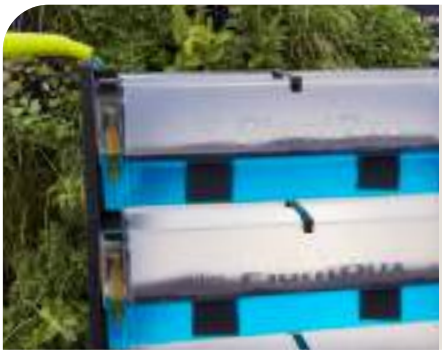
Water is added to the top PlantBox and then flows gradually into the modules below.





WATER RESERVOIR

A 1.8-litre reservoir helps extend the interval between watering.



WATER DISTRIBUTION

Capillary felt distributes moisture through the growing medium to the plant roots.



WATER-LEVEL INDICATOR

See at a glance when the reservoir needs refilling.



COLUMN STOPPER

The stopper closesthe bottom PlantBox in each vertical column and prevents water from flowing further.

OUTDOORS

How can vertical gardens benefit buildings and cities?

By 2050, approximately 68% of the world's population will live in cities. As urban areas become denser, heat and noise increase while space for greenery decreases.

OVERHEATING PROTECTION

~30 °C

Green façades remain significantly cooler than conventional sun-exposed surfaces during hot days.

NATURAL COOLING

2.4 kW / 10 m²

Indicative cooling capacity generated through evapotranspiration.

ACOUSTIC COMFORT

Class C absorber

The planted façade layer helps absorb surrounding noise.

BIODIVERSITY

no additional land take

Façades and walls create new space for vegetation and biodiversity, providing food and shelter for pollinators and birds.

URBAN MICROCLIMATE

>12 °C lower

Lower air temperature measured near a green façade.



INDOORS

How can indoor greenery affect wellbeing and performance?

We spend up to 90% of our time indoors, so the spaces where we live and work directly affect our wellbeing and performance. Greenery helps make them healthier and more pleasant.

PHYSICAL WELLBEING

-23 %

Lower overall symptom score in an office study with plants.

RESPIRATORY COMFORT

- 37%

Fewer complaints of coughing.

FATIGUE

-30 %

Lower reported fatigue among employees in offices with plants.

PRODUCTIVITY

+15 %

Higher productivity in green offices.

COMFORT

+12 %

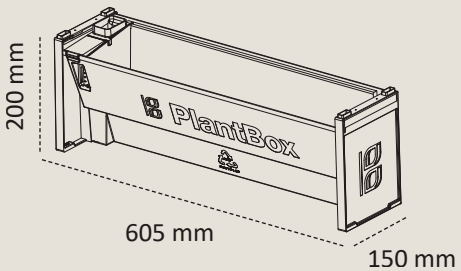
Higher perceived thermal comfort in rooms with plants.



INSTALLATION

Technical specifications

- APPLICATION:
  indoor / outdoor
- MODULE DIMENSIONS (W × H × D):
  605 × 200 × 150 mm
- MATERIAL:
  100% recycled polypropylene
- STRUCTURE:
  modular, non-load-bearing system
- FULLY SATURATED SYSTEM:
  70 kg/m2
- IRRIGATION:
  cascading watering system
  – manual or automatic
- RESERVOIR CAPACITY:
  1,8 L
- RESTRAINT FIXING:
  2 fixing points per 600 mm height
- MAX. WALL HEIGHT / WIDTH:
  no system limitation
- PLANTING (IN 1 PLANTBOX):
  4 plants, 4 L of growing medium
  and 2 fertiliser tablets
- SUITABLE PLANTS:
  indoor plants, perennials,
  herbs, small fruit and vegetables





Fixing and modularity

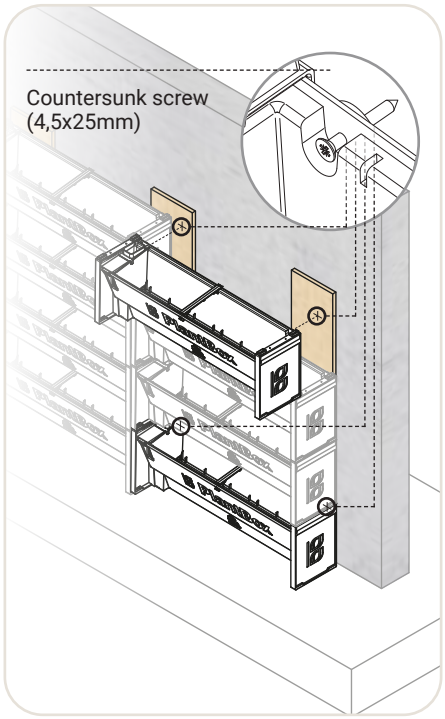
PlantBox is a stackable modular system that can be combined horizontally and vertically to fit the dimensions of almost any wall.

- Individual modules are connected using dedicated connection clips.
- For stability, the first row and every third row thereafter are restrained to the wall.
- For wall or concrete installations, we recommend using a supporting substructure.

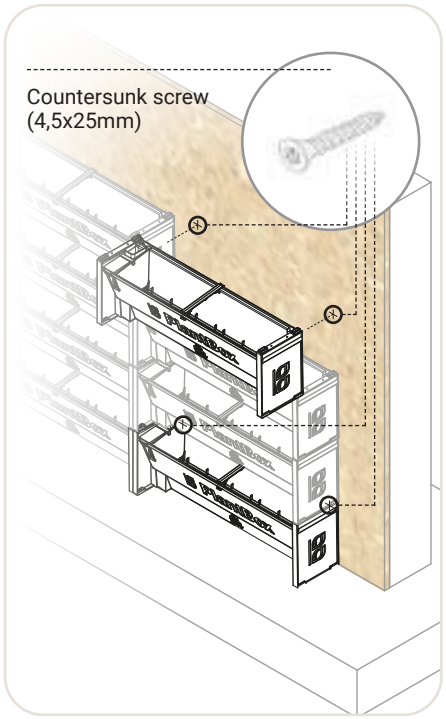
  - indoors: 18 mm OSB board
  - outdoors: aluminium omega profile

  The substructure simplifies precise fixing and ensures accurate alignment of the complete installation.

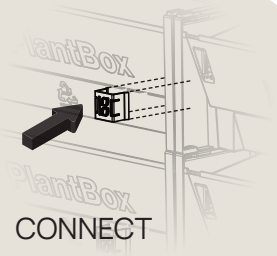
Concrete



Wood

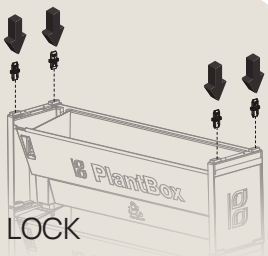


Step by step



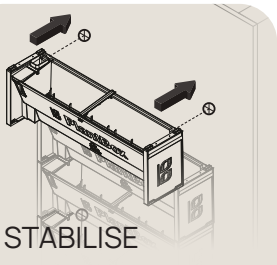
CONNECT

Connect the modules using connection clips.



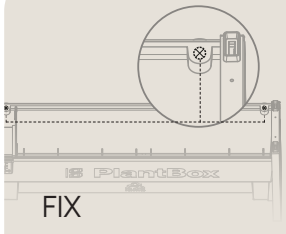
LOCK

Lock the column clips into place from top to bottom.



STABILISE

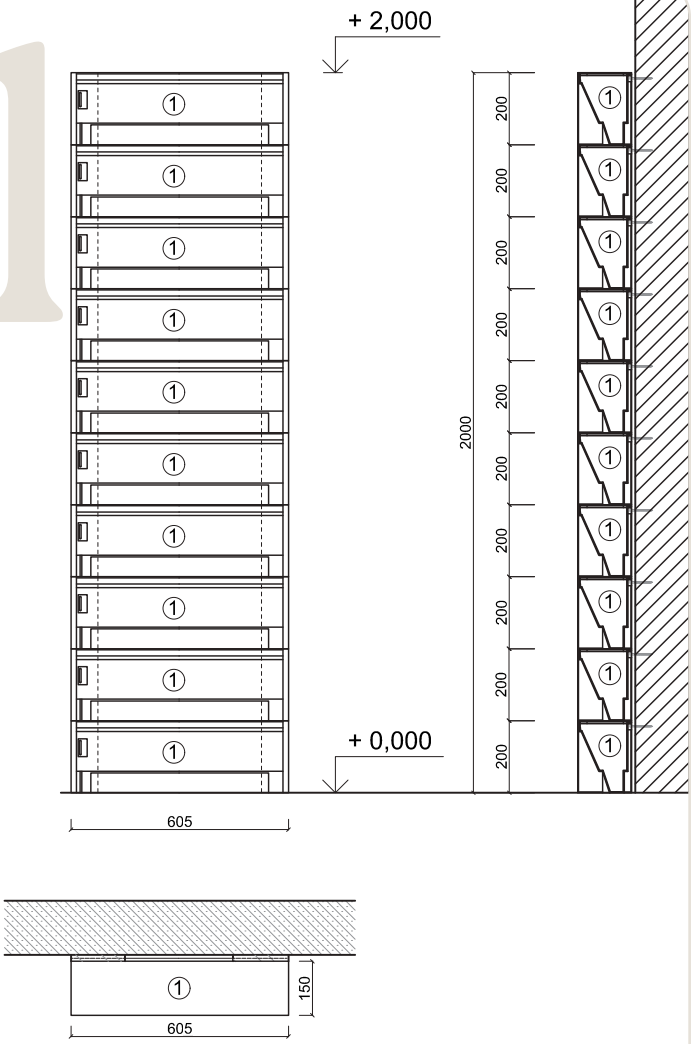
Restrain the first and every third PlantBox row to the wall.



FIX

Secure using countersunk screws (4.5 × 25 mm).

01




VAR. A Watering can irrigation


VAR. B Garden hose irrigation


VAR. B Garden hose irrigation

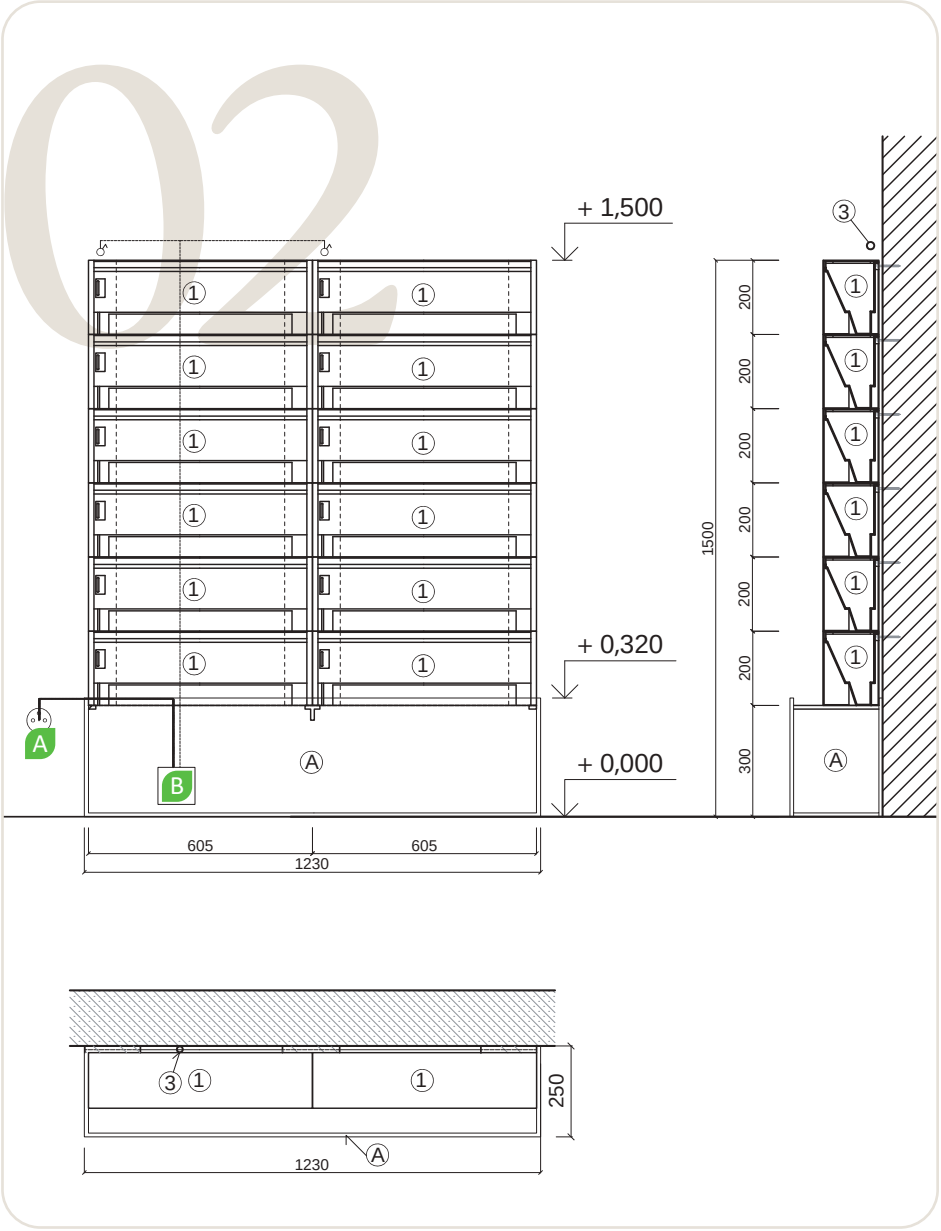
Manual watering

The simplest solution for smaller walls, balconies and terraces. Water is added directly to the top modules using a watering can.

For outdoor use, the system can be fitted with a set for connecting a garden hose. Simply connect the hose, refill the system and disconnect it again after watering.

BEST FOR:

Smaller, easily accessible installations where the water level can be checked and topped up regularly.













Automatic irrigation with pump

Water is pumped from a separate storage tank to the top of the wall and distributed across the individual columns. A pump starts irrigation automatically at preset intervals.

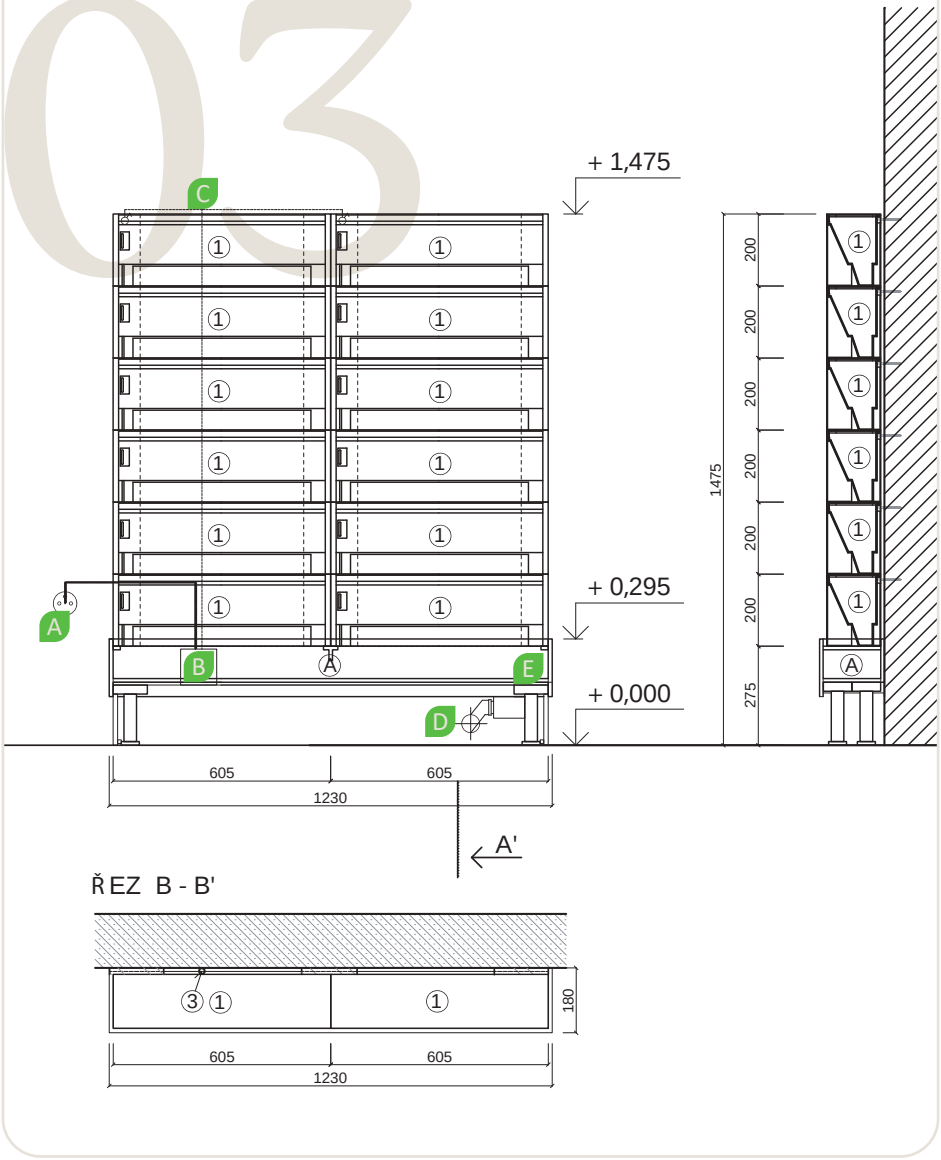
The tank can be refilled manually or automatically from a water supply.

No drainage connection is required.

BEST FOR:

Medium-sized indoor and outdoor walls requiring automatic irrigation where no drainage connection is available.

03



















Fully automatic irrigation with permanent water and drainage connection

The system is permanently connected to the water supply and drainage. A solenoid valve, pressure regulation and control unit provide automatic irrigation according to a preset programme.

A safety reservoir and drain handle any excess water. Depending on the selected technology, the system can also be monitored and controlled via a mobile app.

BEST FOR:

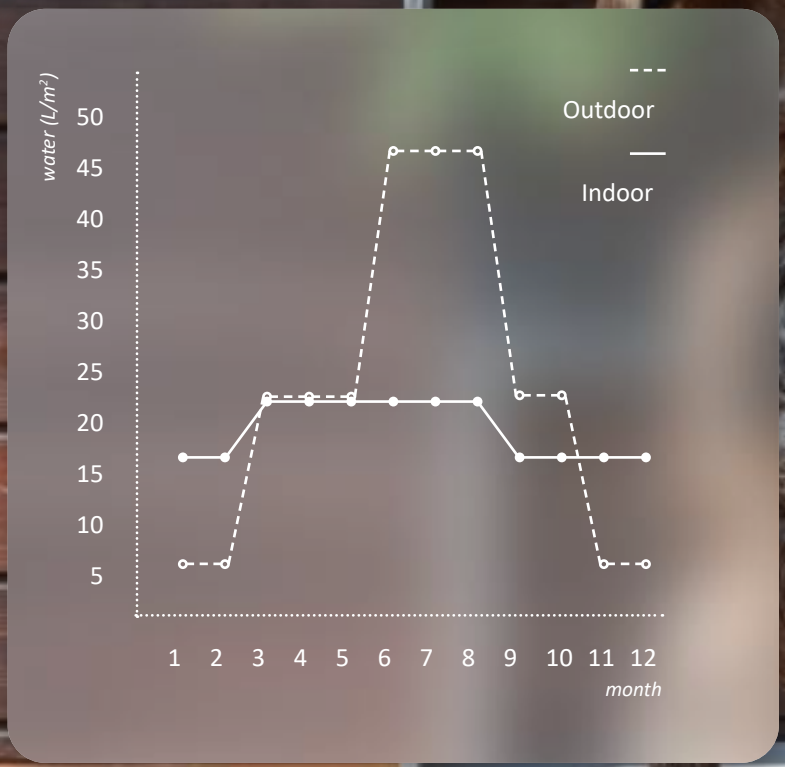
Larger commercial installations, hard-to-reach walls and projects designed for minimal maintenance.

OPERATION

How much water does a living wall use?

Water consumption depends on plant species and size, orientation, temperature, light levels, airflow and season.

Indicative monthly water consumption:



The integrated water reservoir extends watering intervals and helps distribute moisture evenly across the plants.



PLANT CARE

When daylight is not enough, dedicated grow lighting can help.

For healthy, compact growth, plants need sufficient light within the photosynthetically active radiation range.

- LIGHT INTENSITY
  350-550 µmol/m²/s,
  supporting effective photosynthesis.
- PAR SPECTRUM
  400-700 nm, covering the spectrum required for plant growth.
- COLOUR TEMPERATURE
  3000 K warm white
  or 4500 K daylight white.
- POWER
  20-45 W for an efficient, energy-conscious solution.
- POSITIONING
  minimum distance
  of **1,650 mm** from the green wall.

FLEXIBLE

Track-mounted

Lights can be easily repositioned and redirected as the planting develops.



ADJUSTABLE

Directional lighting

Adjustable luminaires direct light precisely where the plants need it.



DISCREET

Recessed

A discreet solution for interiors where clean design is a priority.



PLANTING INSPIRATION

Plants for interiors



For a continuous green wall, choose full-growing species that gradually cover the modules. Aroids and foliage plants form the base, while ferns and palms add structure. Flowering and trailing species provide accents.

Each PlantBox holds 4 plants, ideally in 9–12 cm pots.



Aglaonema ‚Maria'

AGLAONEMA ‚MARIA'

Decorative plant with dark green foliage and low light requirements.

- *Position: Ideal for shaded areas and suitable for spaces with artificial lighting.*
- *Care: Requires regular watering and higher humidity; sensitive to low temperatures.*



Alocasia ‚Polly'

ALOCASIA 'POLLY'

An exotic plant with striking arrow-shaped leaves.

- *Position: Bright locations without direct sunlight; prefers higher humidity.*
- *Care: Requires regular watering and warm conditions.*



Aglaonema ‚Silver bay'

AGLAONEMA ‚SILVER BAY'

Attractive silver-green foliage suitable for lower-light interiors.

- *Position: Semi-shaded to shaded areas.*
- *Care: Prefers evenly moist growing medium and higher humidity; avoid draughts.*



Codiaeum petra

CODIAEUM 'PETRA' / CROTON

A colourful tropical plant with striking variegated leaves.

- *Position: Bright locations with indirect light.*
- *Care: Prefers stable temperatures and high humidity and requires regular watering.*



Syngonium

SYNGONIUM

Fast-growing plant
with decorative foliage
and an easy-care character.

- *Position: Suitable for semi-shaded to shaded locations; works well as a trailing plant.*
- *Care: Easy to maintain; regular watering and higher humidity support healthy growth.*



Philodendron hed. ‚Lemon Lime'

PHILODENDRON 'LEMON LIME'

Bright lime-green foliage
brings freshness and contrast
to indoor planting.

- *Position: Bright to semi-shaded locations.*
- *Care: Easy to maintain; regular watering and occasional feeding support growth.*



Spathiphyllum wallisii

PEACE LILY

A popular foliage plant valued
for its elegant appearance
and easy care.

- *Position: Semi-shaded to shaded locations; tolerates lower light levels.*
- *Care: Keep the growing medium evenly moist and water regularly.*



Anthurium and.

WHITE ANTHURIUM

A flowering plant with decorative
white blooms that brings a fresh
accent to interiors.

- *Position: Bright locations without direct sunlight; prefers higher humidity.*
- *Care: Requires regular watering and performs best in humid conditions.*



Schefflera arboricola

DWARF UMBRELLA TREE

An attractive foliage plant
with distinctive palmate leaves.

- *Position: Bright to semi-shaded locations; tolerates some shade.*
- *Care: Easy to maintain; regular watering and occasional feeding are recommended.*



Adiantum capillus-veneris

MAIDENHAIR FERN

A delicate fern with fine foliage
that adds softness and freshness
to a living wall.

- *Position: Shaded, humid locations.*
- *Care: Requires consistently high humidity and regular watering; sensitive to dry air.*

TIP

The growing medium?

For indoor installations, we recommend an inorganic growing medium that remains loose and stable while providing reliable support for plant roots.



PLANT GUIDE

Plants for outdoor living walls



For outdoor planting, choose species according to wall orientation, sun exposure and local climate.

Combine plants with similar water and site requirements and consider how the planting will change throughout the seasons.



Fragaria × ananassa

GARDEN STRAWBERRY

An edible plant combining decorative foliage with fruit production.

- *Position: Sunny to semi-shaded locations; ideal for edible planting.*
- *Care: Requires regular watering, a well-drained growing medium and sufficient nutrients.*



Heuchera hybrida

HYBRID CORAL BELLS

A decorative perennial with distinctive foliage in a wide range of colours.

- *Position: Sunny to semi-shaded locations.*
- *Care: Easy to maintain; prefers a well-drained, moderately moist growing medium and does not tolerate prolonged waterlogging.*



Carex oshimensis

JAPANESE SEDGE

An elegant evergreen grass-like plant with fine arching foliage.

- *Position: Semi-shaded to sunny locations; ideal for adding structure and movement.*
- *Care: Easy to maintain; prefers a moderately moist, well-drained growing medium.*



Bergenia sp.

BERGENIA

Hardy evergreen perennial with large, leathery leaves and showy pink flowers.

- *Position: Suitable for sun or partial shade; requires more moisture in sunny locations.*
- *Care: Requires well-drained, moderately moist growing medium; remove dead leaves and faded flower stems.*



Salvia nemorosa

WOODLAND SAGE

A hardy perennial with striking purple flower spikes that also attracts pollinators.

- *Position: Sunny locations; ideal for naturalistic perennial planting.*
- *Care: Low maintenance and tolerant of drier conditions; pruning after flowering can encourage repeat blooming.*



Lonicera nitida

BOX HONEYSUCKLE

Evergreen shrub with small glossy leaves and dense, gently arching branches.

- *Position: Suitable for sunny to partly shaded locations; thrives in well-drained growing medium.*
- *Care: Low-maintenance; requires regular watering and tolerates pruning to maintain compact growth medium.*



Thymus vulgaris

COMMON THYME

An aromatic evergreen herb suitable for both decorative and edible planting.

- *Position: Sunny, warm locations.*
- *Care: Very low maintenance; requires good drainage and tolerates drought well.*



Origanum vulgare

OREGANO

An aromatic herb with delicate flowers, combining decorative value with culinary use.

- *Position: Sunny locations.*
- *Care: Hardy and drought tolerant; prefers a light, well-drained growing medium.*



Allium schoenoprasum

CHIVES

An edible herb with fine hollow leaves and decorative purple flowers.

- *Position: Sunny to semi-shaded locations.*
- *Care: Easy to maintain; performs well in moderately moist growing medium.*



Petunia hybrida

PETUNIA

A profusely flowering seasonal plant available in a wide range of colours.

- *Position: Sunny locations.*
- *Care: Requires regular watering and feeding during the growing season.*

TIP

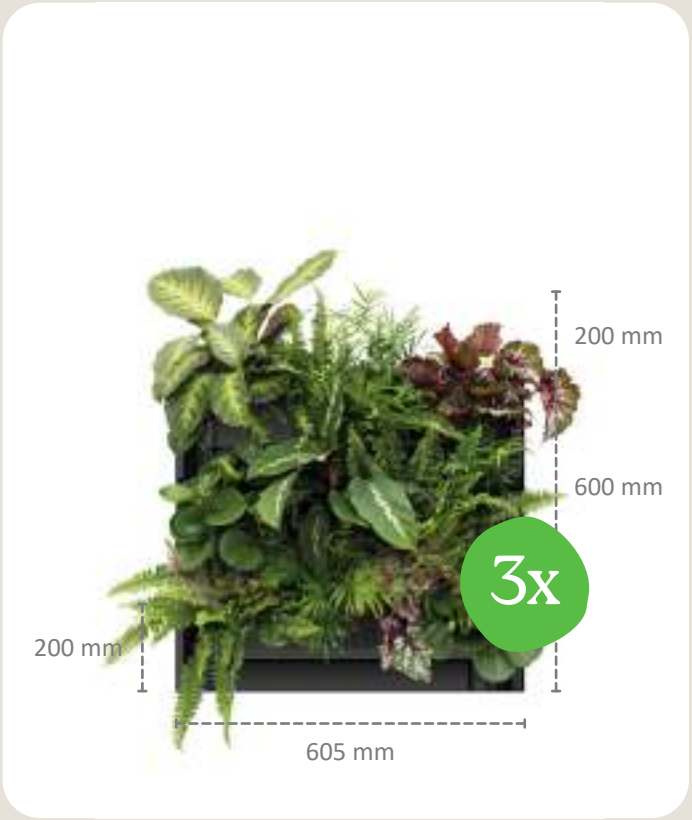
The growing medium?

For outdoor installations, we recommend an organic growing medium with a higher proportion of woody material to support vigorous plant growth.



CHOOSE YOUR PLANTBOX

From home greenery to large-scale living walls



A little space for green

SMALL SET – 3 MODULES

12L growing medium

12 plants



Three PlantBox modules create a compact green feature for herbs, indoor plants or a small balcony garden.



Your own green corner

MEDIUM SET – 5 MODULES

20 L growing medium

20 plants



Five PlantBox modules create a more substantial green feature for an interior, balcony or terrace, with plenty of room for indoor plants, herbs or small edible crops.



Project delivery

PlantBox is available in project quantities, with technical know-how and commercial support for professional partners.

Ready to install

80 PRE-ASSEMBLED MODULES / PALLET

Assembled



Fully assembled PlantBox modules for faster handling and installation on site.

Make the wall come alive

LARGE SET – 10 MODULES



40 L growing medium

40 plants

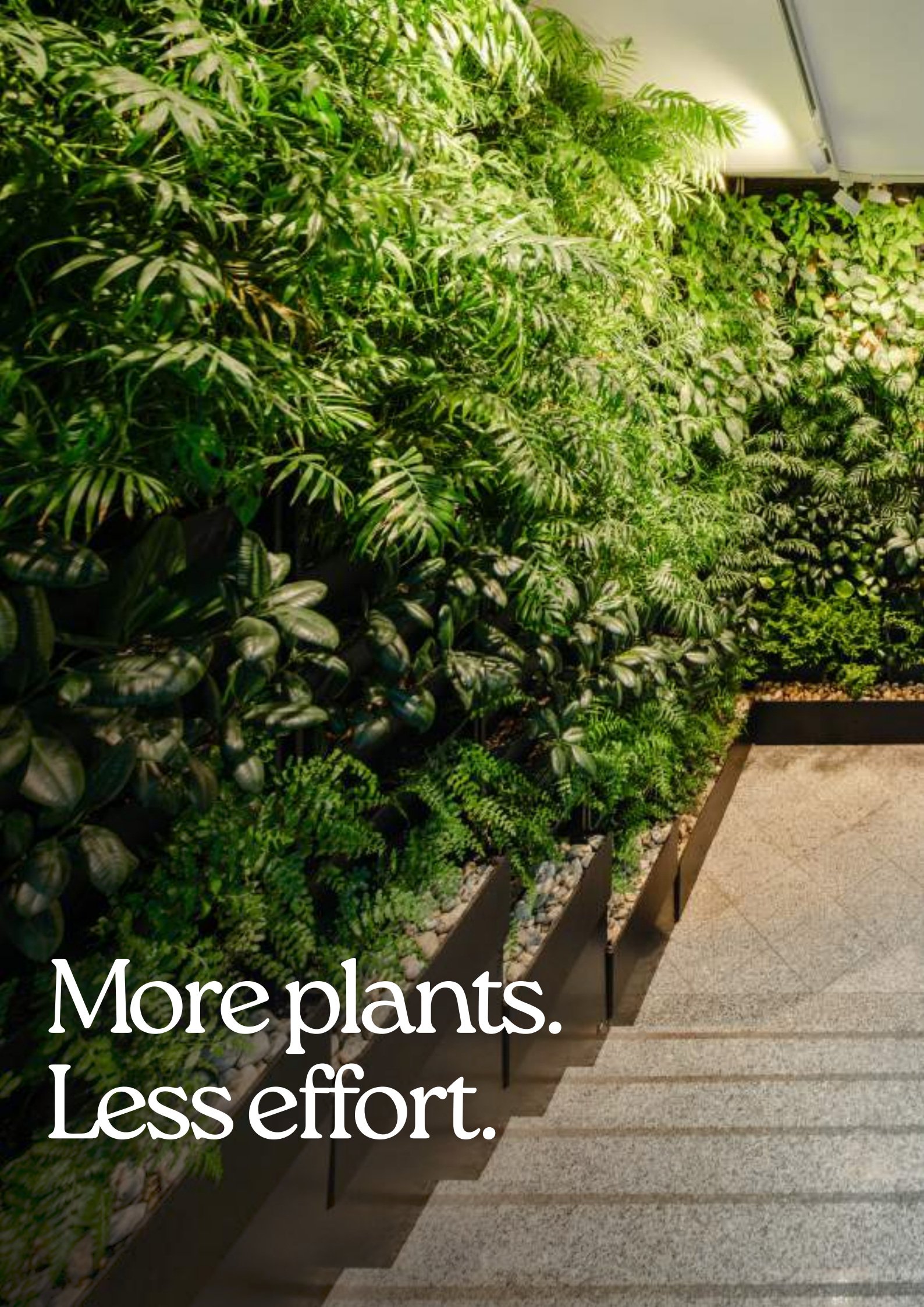
Ten PlantBox modules create a full living wall with a strong visual impact indoors or outdoors.

Best for transport

168 FLAT-PACKED MODULES / PALLET

Flat-packed




More plants.
Less effort.



- 30+ YEARS OF EXPERIENCE
- MADE IN THE EU
- PATENTED SYSTEM

NURTURED BY LIKO-S

Built on experience

PlantBox comes from years of hands-on experience with living walls and green façades.

Our family-owned company has been developing solutions for buildings for more than 30 years.

Working on real living-wall projects showed us what installers, designers and building owners actually need.



FOR PROFESSIONALS:

Technical resources, partnership opportunities and registration.

Grow Vertical



More plants.
Less effort.

DISCOVER PLANTBOX
AT GROW-VERTICAL.COM

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info@grow-vertical.com