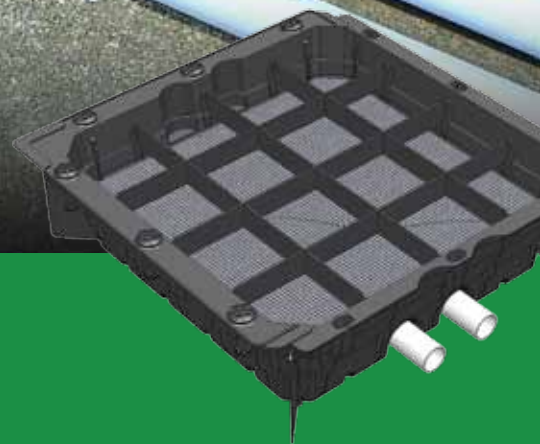


Creating Cities  
Where Urban Meets Nature



# MEP<sup>®</sup> Tray

Modular Extensive Planting System



## Our Innovation Your Solution

The Modular Extensive Planting (MEP) Tray has water storage compartments, integrated capillary wicks and other unique features that provide a quick and simple solution to transform dull conventional roofs into green and beautiful roofs.

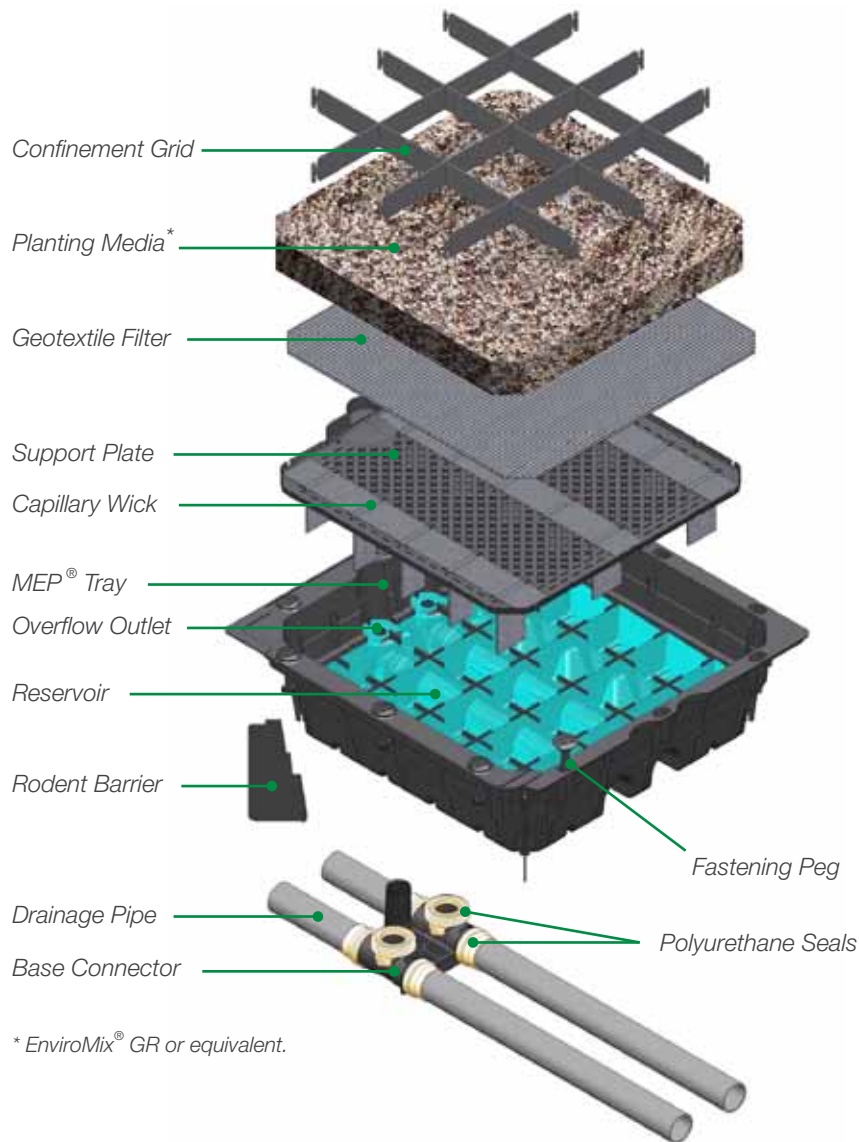


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# MEP<sup>®</sup> Tray

Research worldwide has shown that green roofs limit the impact of climate change, underlining the valuable role they play in sustainable design. They reduce heat transmission from rooftop to habitable space below, lower ambient temperature, mitigate urban heat island effect, reduce rainwater runoff, and improve air quality and aesthetics.



## About MEP<sup>®</sup> Tray

The Elmic MEP<sup>®</sup> Tray (Modular Extensive Planting Tray) system allows quick realisation of extensive green roofs. It is a lightweight and robust planting tray with water storage compartments made from high-strength UV-stabilised polypropylene.

The system includes a support plate with anti-root overflow outlet covers, capillary wicks, geotextile filter, confinement grid, joining and fastening pegs, rodent barriers, base connector and drainage pipes.

The water reservoir in each MEP<sup>®</sup> Tray supports long term plant sustainability with minimal maintenance.

The modular tray design allows sustained plant growth and its light weight facilitates easy creation of desired designs and patterns. Each MEP<sup>®</sup> Tray including accessories, saturated planting media, plants and stored water weighs less than 30kg.

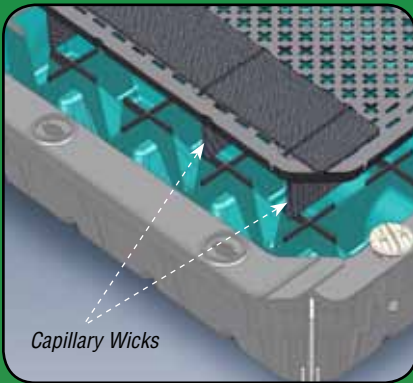
The self-contained MEP<sup>®</sup> Tray may be pre-planted in a nursery prior to installation to achieve instant greening of rooftops.

MEP<sup>®</sup> Tray components are manufactured primarily from recycled plastics, supporting all international Green Building Certifications.

# Distinctive Features

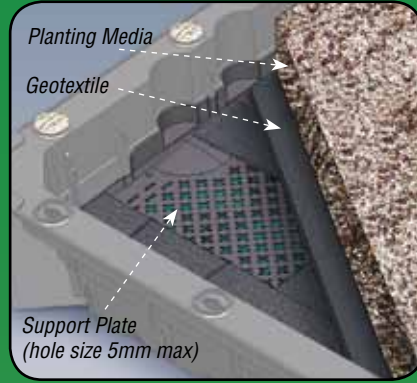
## Capillary Wicks

Capillary Wicks in the Support Plate convey water to the geotextile filter and planting media. This also discourages root incursion into the reservoir.



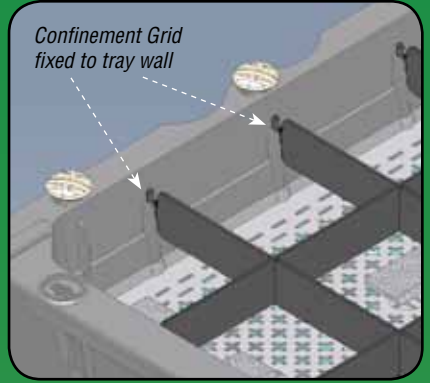
## Placement of Planting Media

The MEP® Tray has a fitted Support Plate for placement of a geotextile filter. Its small apertures stop excess planting media from getting into the reservoir.



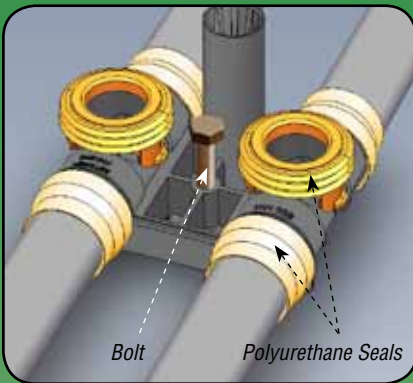
## Erosion Control

A Confinement Grid minimises media spillage from the MEP® Tray. It is attached to the tray to prevent it from being dislodged.



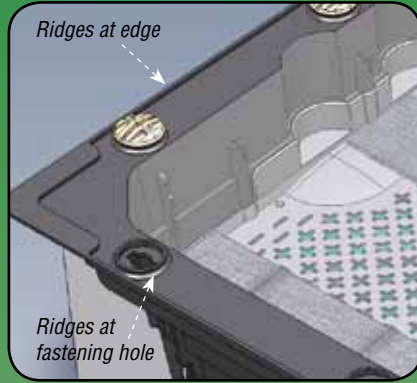
## Securing of Trays

Adjoining MEP® Trays are secured by fastening pegs. Each tray may be bolted to the substrate via the Base Connector for additional security if required.



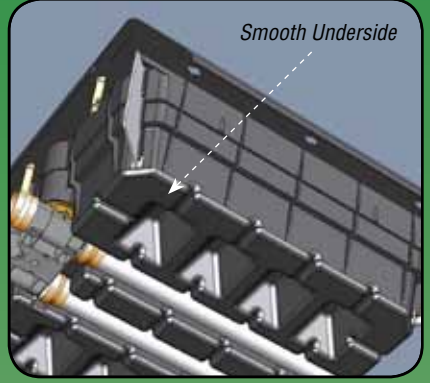
## Water Seepage

Ridges at the edge and around the fastening holes of the MEP® Tray prevent water seepage between adjoining trays keeping the roof beneath dry.



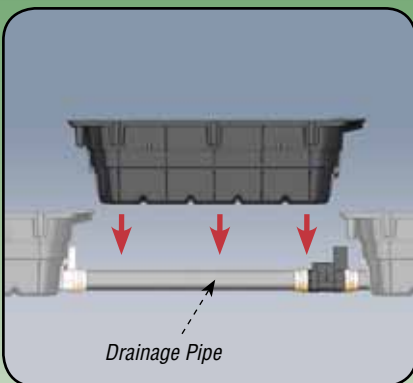
## Non-Intrusive Base

The MEP® Tray has a smooth base without any protrusions allowing it to be placed directly onto the waterproofing membrane without damaging it.



## Independent Drainage

The MEP® Tray utilises an independent drainage system pre-installed beneath the trays. Polyurethane seals used at the joints ensure watertightness.



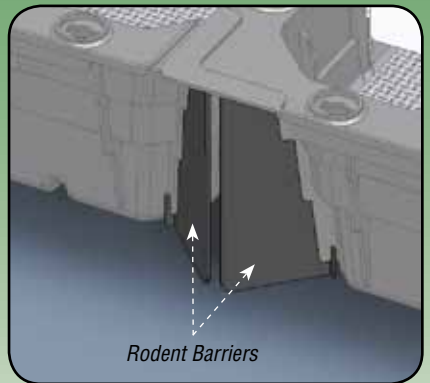
## Fast Installation & Removal

MEP® Tray units are placed onto a pre-installed drainage network. Trays are easily added or removed without affecting the drainage network.



## Rodent Barriers

Rodent Barriers at each corner of the MEP® Tray prevent rodents infesting the space between trays and uplifting of trays by strong winds.



# Technical Specifications

|                              |                        |
|------------------------------|------------------------|
| <b>Material</b>              | Polypropylene          |
| <b>Dimensions</b>            |                        |
| Overall (mm)                 | 530 x 530 x 150        |
| Nominal (mm)                 | 500 x 500 x 150        |
| <b>Design weight</b>         | 120kg/m <sup>2</sup> * |
| <b>Media depth</b>           |                        |
| Nominal                      | 65mm                   |
| Max                          | 75mm                   |
| <b>Water storage</b>         | 7 litres               |
| <b>Tray + Accessories</b>    |                        |
| Unfilled                     | 2.5kg                  |
| With water & saturated media | 26kg                   |

\*Inclusive of plants

## Advantages

- Establish an extensive green roof in short lead time
- Modular, lightweight and portable
- Pre-planting in nursery environment
- Fast installation
- Drainage system independent of trays
- Quick discharge of excess water
- Easy plug-in assembly to drainage system
- Tray replacements do not affect drainage system
- Watertight drainage pipe and connector joints
- Non-clogging of reservoir and drainage channels
- Effective rodent barrier
- Spill-proof placement of planting media
- Capillary wicks facilitate use of stored water
- Optional securing of trays to substrate
- Easily dismantled, stored offsite and re-assembled
- Made from recycled materials
- Supports Green Building Certification



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