MEP® Tray
Modular Extensive Planting System

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MEP® Tray

MEP® Tray is a modular planting tray system for sustainable plant growth and ease of maintenance. The system is suitable for off-site pre-planting for a faster and simpler installation on-site leading to shorter project timelines.

About MEP® Tray

MEP® Tray is made from high strength UV-stabilised recycled polypropylene, which is robust and lightweight weighing less than 30 kg when fully saturated. Each module is designed with a water storage reservoir that passively assists irrigation requirements. The reservoirs in each row of the green roof installation are linked, facilitating an even distribution of water to each tray should any particular tray be sheltered from the rain.

1. Erosion Guard (Optional)

A soil grid created by interlocking 6 panel strips that hold planting media in place.

2. Planting Media*

EnviroMix® or equivalent lightweight planting media.

3. Geotextile

A geotextile is supplied to provide a separation layer between the media and the reservoir.

4. QwickWick®

QuickWick® passively conveys water from the reservoir to the planting media, even at low water levels.

5. Tray Reservoir

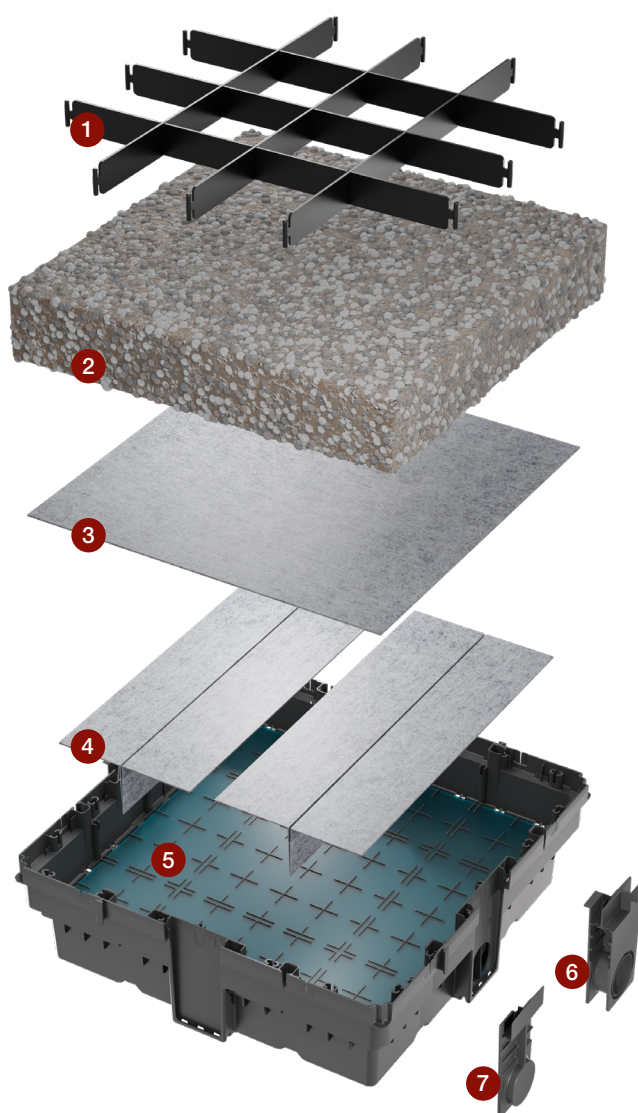Each tray has a reservoir capacity of 40 l/m².

6. Continuous Joiner

The linked reservoir is created by a Continuous Joiner to form a pathway for water to flow seamlessly between trays.
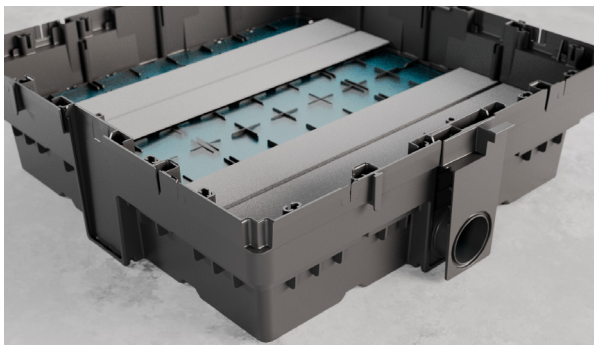
7. Edge Closer

Employed at the perimeters of the completed tray installation to seal off the tray's reservoir.
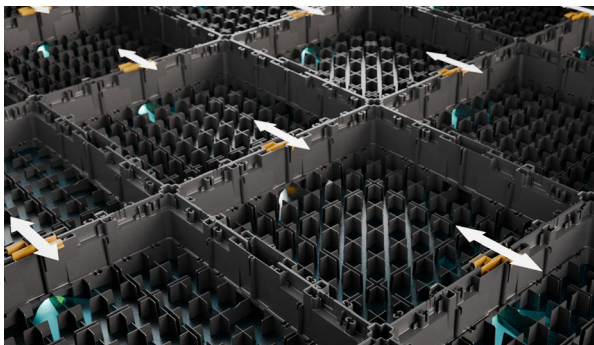
*not supplied

Distinctive Features

Self-Watering

QwickWick® convey water to planting media, ensuring they are kept moist to promote plant growth, thereby decreasing the need for frequent irrigation.


Linked Reservoir

Rainwater collected from unsheltered MEP® Trays are distributed evenly across the MEP® system with proprietary Continuous Joiner.



Simple Removal & Replacement

Intermediate MEP® Trays may be removed and replaced for maintenance by pulling out the Continuous Joiners. Having the reservoirs linked only in one axis means the rest of the green roof's reservoir remains undisturbed.
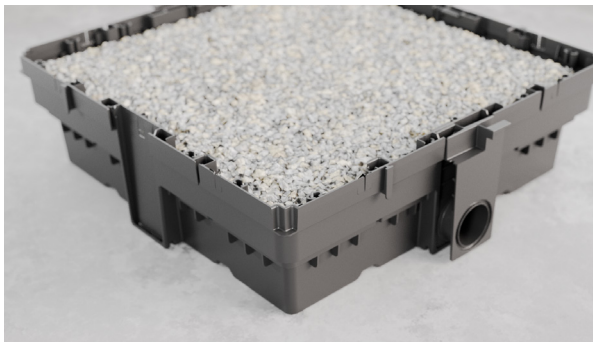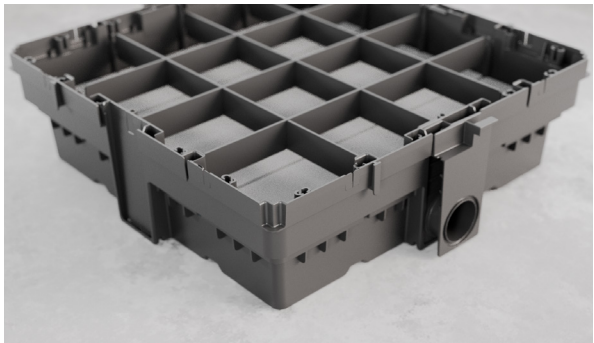

Create Maintenance Paths & Walkways

MEP® Tray may be filled with gravel and joined with adjacent trays to form maintenance paths and walkways.

Optional Features
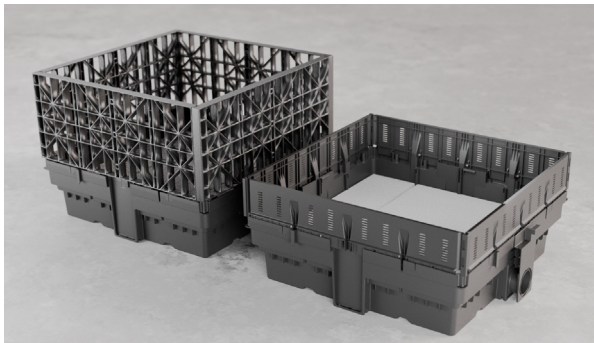
Deeper Planting Depths

Wall Extenders can be added to MEP® Tray to increase the planting depth by 75 mm or 250 mm.


Erosion Control

Erosion Guard is fixed to the inner walls of MEP® Tray and holds planting media in place, especially on sloping surfaces.

Technical Specifications

Material	PP
Dimensions	500 mm x 500 mm x 150 mm
Planting media height	75 mm
Wall Extender	75 mm / 250 mm
Reservoir capacity	40 l/m^2
Weight	
- Empty	12 kg/m^2
- Planted	150 kg/m^2

Typical Details

- Turf/Plants
- MEP® Tray
- Waterproofing Membrane
- Screed
- Roof Slab
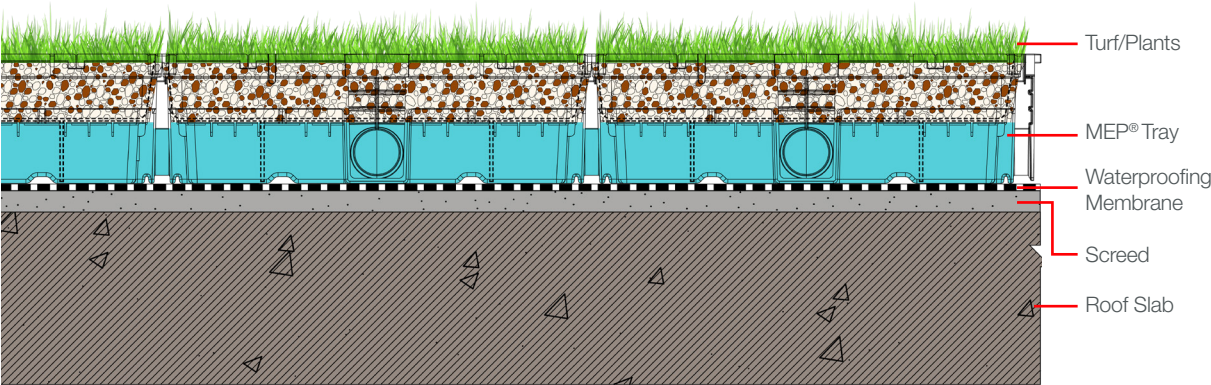
Applications

Private Residence, Australia

Red Cross New Headquarters, Hong Kong

Management System
ISO 9001:2015
ISO 14001:2015
ISO 22301:2019
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