

VersiDrain[®] 25

Water Storage & Drainage Sheet



**Creating Cities
Where Urban Meets Nature**



Our Innovation Your Solution

VersiDrain[®] 25 is a lightweight, cost-effective water management sheet used below the growing media that functions to store and drain water and to protect the waterproofing membrane. The high water storage capacity of the cells coupled with high discharge capacity ensures effective capillary irrigation, eliminates the possibility of waterlogging, reduces irrigation frequency and minimizes fertilizer runoff and usage.



VersiDrain® 25

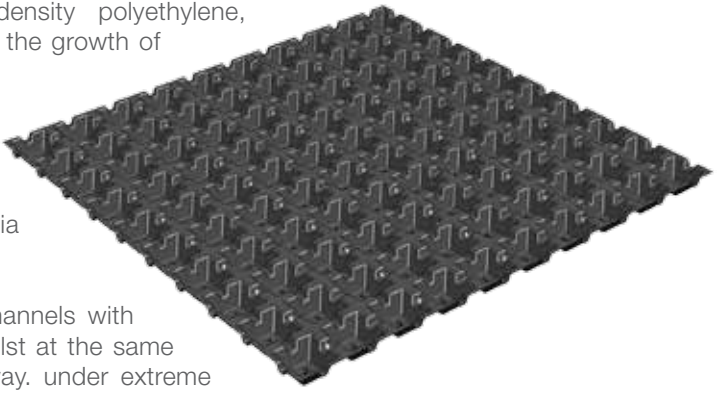
VersiDrain® 25 water retention and drainage tray enhances our environment by facilitating the construction of extensive roofs that reduce radiant heat from hard roof surfaces.

About VersiDrain® 25

VersiDrain® 25 water retention and drainage tray is a lightweight cost-effective system comprising a network of cells that function to both store and drain water in landscaping applications. Manufactured from UV-stabilized high density polyethylene, VersiDrain® 25 reduces irrigation frequency and promotes the growth of healthier plants.

The unique design of VersiDrain® 25 stores water in a network of mini reservoirs but allows excess water to be efficiently drained away. The water and soluble nutrients stored in the cells are returned to the growing media during dry periods.

The cells in the VersiDrain® 25 are interconnected by channels with perforation that allow water to flow between the cells whilst at the same time ensuring that excess water is efficiently drained away. Under extreme conditions. The high compressive strength of VersiDrain® 25 protects the waterproofing membrane and effectively supports the weight of the growing media and plants.

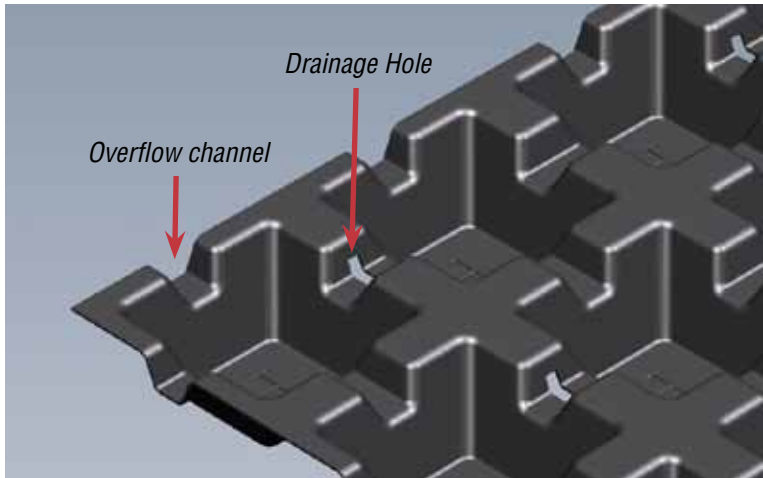
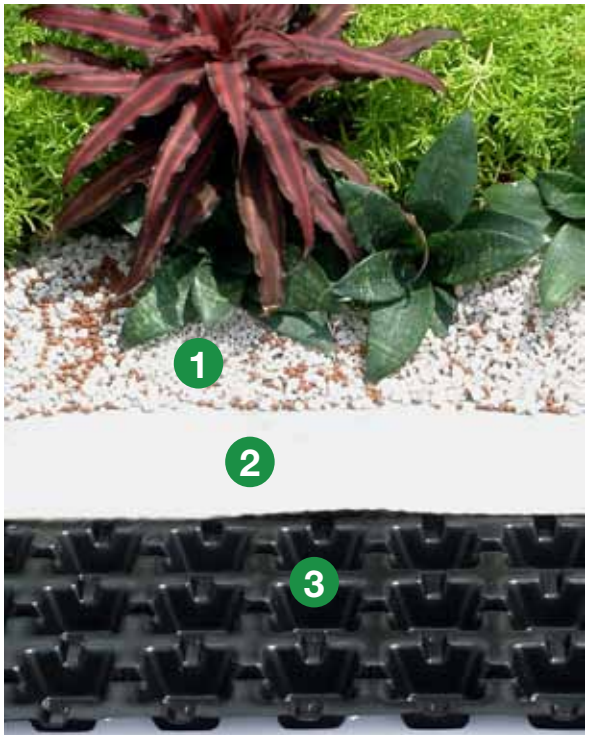


Advantages

- Provides efficient drainage
- Reduced irrigation frequency
- Root and rot-resistant
- High storage capacity (6.1l/m²)
- Lightweight
- Recyclable

Applications

- Extensive green roofs
- Planter boxes
- Intensive landscape roof decks
- Roadside turf



1. Lightweight soil-less planting media
2. Geotextile Filter Fabric
3. VersiDrain® 25

Enhancing the Urban Experience

The main application of VersiDrain® 25 is in the installation of extensive green roof systems. ElMich's proprietary green roof system comprising of VersiDrain® 25 and uniquely formulated Enviromix® soil-less lightweight planting media provides greening solutions for both concrete and metal deck roofs.

Before



After



Pasir Ris Amenities Building, Singapore



Universal Studios, Singapore



Universal Studios, Singapore

Pitched roof installations incorporate aluminum restrainers to prevent planting media from sliding off the roof.

Technical Specifications

VersiDrain® 25

Material	Polyethylene
Height	23mm
Thickness	1mm
Weight	0.9 kg/m ²
Roll size/dimensions	2.22m x 1.33m
Compressive strength	50 kN/m ²
Fire rating	B2 (DIN 4102)
Water storage capacity	6.1 l/m ²
Flow rate @ 3% gradient	1.5 l/m.s
Flow rate @ 2% gradient	1.2 l/m.s
Life duration	> 50 years

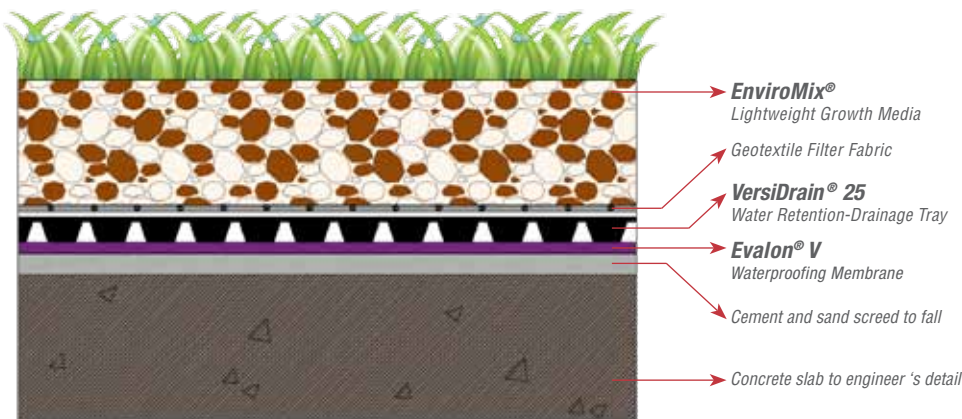


KK Hospital Rooftop, Singapore



McDonald's Jurong Central Park, Singapore
BCA Green Mark Platinum Award

Typical Green Roof Build-Up



A security hologram has been applied on all our products to ensure that the end-user receives the best quality and original Elmich product.

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