



# Landscape Engineering & Architectural Products



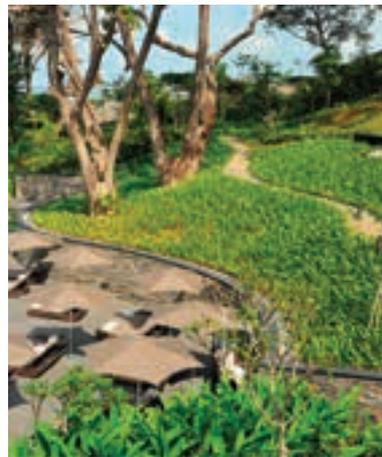
Green Wall  
Sub-Surface Drainage



Green Roof



Paver & Bearer Support



Turf & Slope Stabilisation



Stormwater Management

*Enhancing the Urban Experience*

# Elmich in brief

Elmich Pte Ltd is the leading provider of state-of-the-art and ecologically-minded urban landscaping, waterproofing, drainage, and stormwater management solutions to building developers, contractors, and landscape architects around the world.

Headquartered in Singapore, Elmich's reach is global, supported by offices in Guangzhou, Shanghai, Sydney, Seattle and Zurich and we work closely with our network of distributors covering 5 continents in over 20 countries.

Elmich aims to Enhance the Urban Experience and pride ourselves in providing sustainable and eco-friendly landscape architectural products.

At Elmich, we are driven by one singular passion of enhancing lives for you and future generations.



Elmich main offices & distributors worldwide

Covering more than  
27 countries across  
the world



# Content

VersiWall® GP	01
VersiWall® GM	02
VersiDrain® 25P	03
MEP® Tray	04
VersiCell®	05
VersiDrain® 8 Geo	06
TurfPave®	07
VersiWeb®	08
VersiJack®	09
SpiraPave®	11
VersiPave®	12
VersiTank®	13

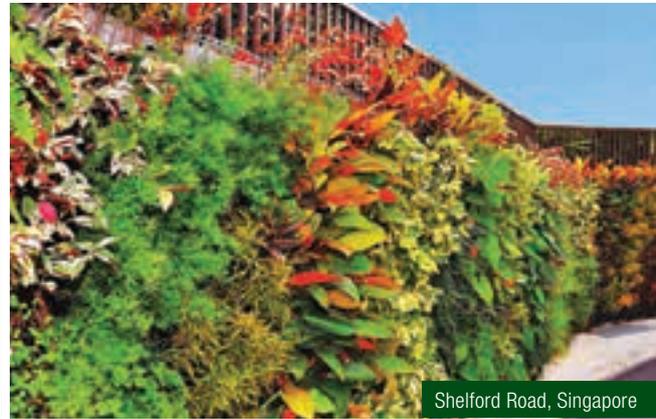
**Creating Cities**  
**Where Urban Meets Nature**

# VersiWall® GP

## Green Wall



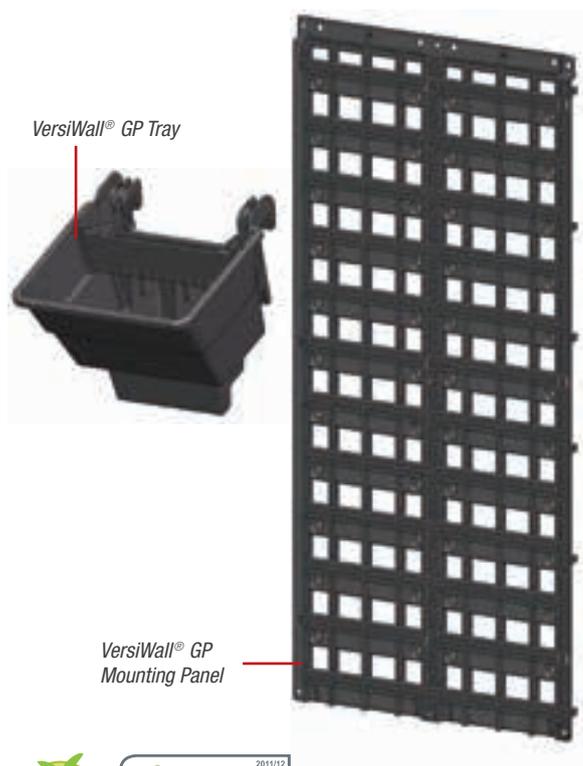
Geylang @ Saigon Cafe, Vietnam



Shelford Road, Singapore



Motor Showroom, Middle East



VersiWall® GP Tray

VersiWall® GP Mounting Panel

**VersiWall® GP (VGP)** is an easy-to-install and low-maintenance modular vertical greening system with a choice of mounting, planting density and growth media options to suit different wall conditions.

### Applicable Areas

- Interior walls
- Exterior walls
- Free standing walls
- Building facades

### Features & Benefits

- Allows different spacing for varied plant densities on the wall
- Universal mounting
- Anti-lift arms prevent dislodging of trays
- Proprietary mounting panel reduces number of bolts required



# VersiWall® GM

## Green Wall



Fashion Valley, San Diego, California



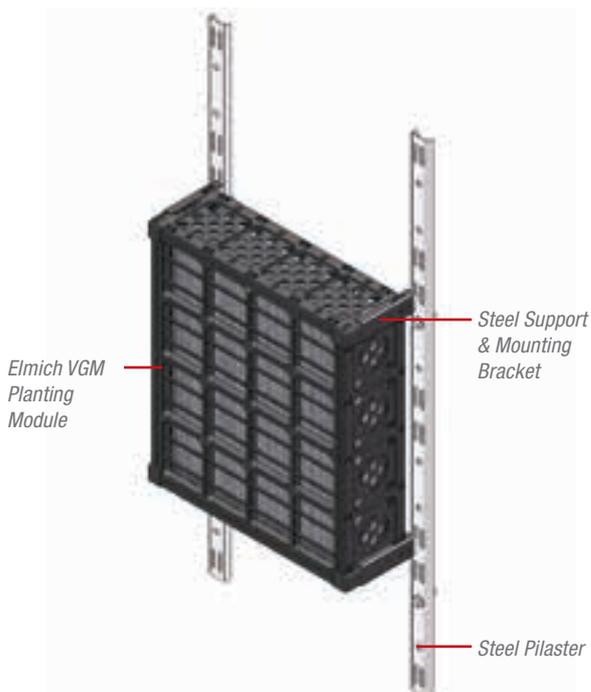
Orchard Central Mall, Singapore



ITE Central College, Singapore



Hotel Michael, Singapore



**VersiWall® GM (VGM®)** offers architects and developers a complete and durable solution for turning heat-absorbing and often dull and monotonous walls into cool and attractive living green walls that assimilate easily into a natural or garden environment.

It protects a building from the harmful effects of sunlight and UV exposure and provides an insulating barrier against noise and extreme temperatures.

### Applicable Areas

- Interior walls
- Exterior walls
- Free standing walls
- Building facades

### Features & Benefits

- Modular, robust and easy to install
- Large media holding capacity permits plant selection flexibility
- Easy maintenance and design change
- Reduces sound transmission, airborne pollutants and stormwater run-off
- Enhances air quality



# VersiDrain® 25P

## Water Storage & Drainage Sheet



McDonald's Jurong Central Park, Singapore



Universal Studios, Singapore



KK Hospital Rooftop, Singapore



Temasek Polytechnic, Singapore

**VersiDrain® 25P** is a lightweight, water retention 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, reduces waterlogging and irrigation frequency, and minimises fertilizer runoff and usage.

### Applicable Areas

- Roof tops
- Metal decks
- Concrete decks
- Patios
- Walkways

### Features & Benefits

- Water storage capacity up to 6 litres/m<sup>2</sup>
- Effective drainage of excess water permits plant selection flexibility
- Lightweight
- Reduces irrigation frequency
- Enhances plant vigour
- Reduces stormwater run-off



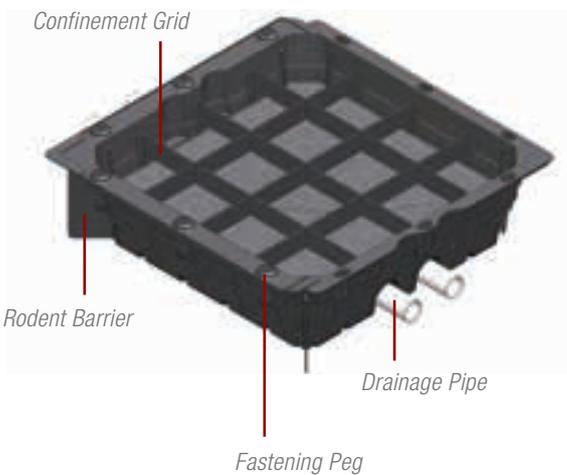
# MEP<sup>®</sup> Tray

## Modular Extensive Planting Tray



Before Installation

15 Joan Road, Singapore



**Modular Extensive Planting (MEP<sup>®</sup>) 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.

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

### Applicable Areas

- Roof tops
- Metal decks
- Concrete decks
- Patios
- Walkways

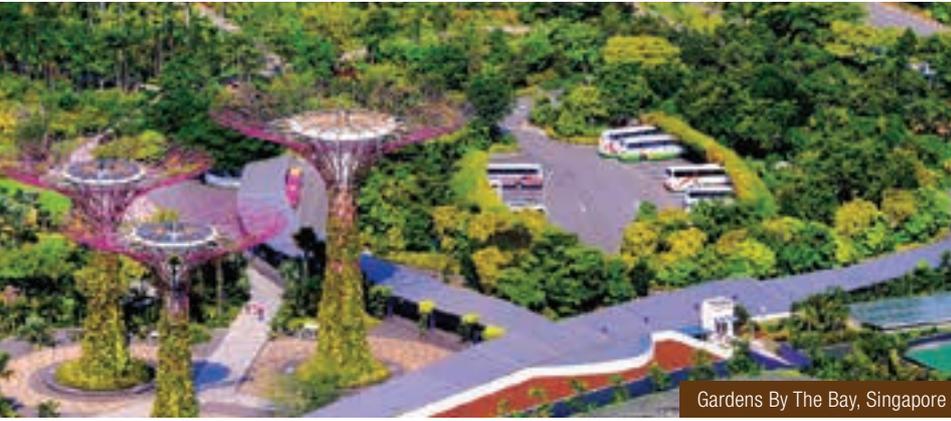
### Features & Benefits

- Established green roof upon installation
- Modular, lightweight and portable
- Integrated capillary wick links to reservoir
- Closed drainage system
- Watertight pipe and connector joints
- Non-clogging reservoir and drainage channels
- Spill-proof planting media containment

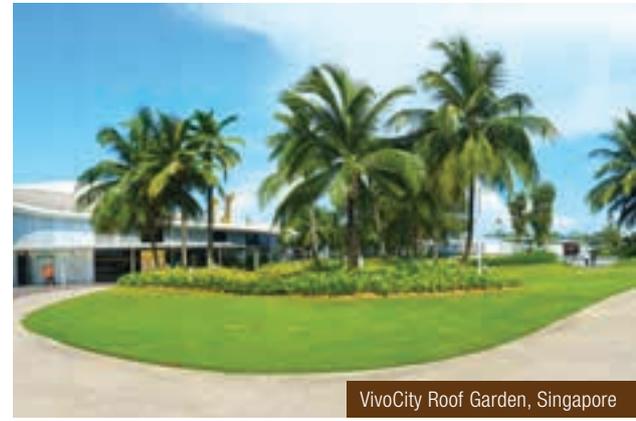


# VersiCell®

## Sub-Surface Drainage Module



Gardens By The Bay, Singapore



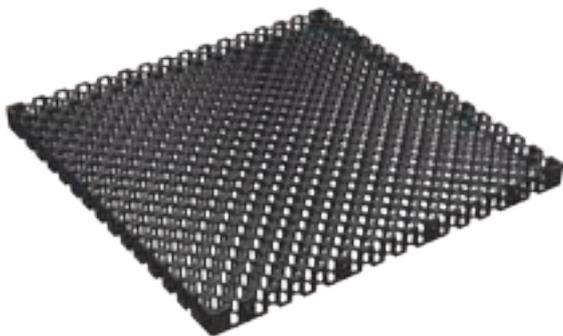
VivoCity Roof Garden, Singapore



HDB Carpark Roof Garden, Casa Clementi, Singapore



Boundary Street, Sydney



**VersiCell®** is designed and engineered for sub-surface drainage as well as providing waterproofing membrane protection and heat and sound insulation.

It eliminates the use of heavy gravel aggregates for sub-surface drainage and screeds for waterproofing membrane protection in planter boxes and roof gardens. VersiCell® is also applied on retaining walls to prevent build up of hydrostatic pressure.

### Applicable Areas

- Intensive green roofs
- Landscaped decks
- Planter boxes
- Basement walls
- Retaining walls
- Paved areas & roadways
- Sports fields

### Features & Benefits

- High internal void
- High compressive strength
- Lightweight
- Modules interlock for stability and easy installation
- Protects waterproofing membranes

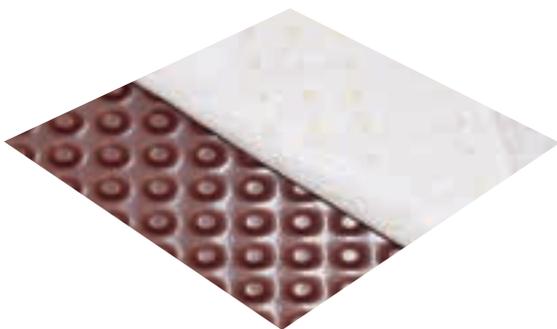
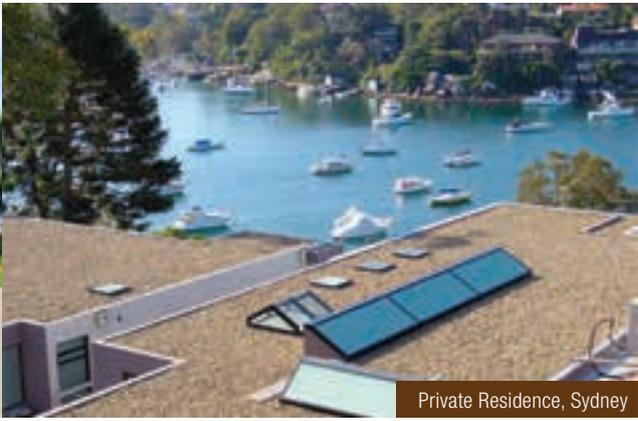


035-005



# VersiDrain® 8 Geo

## Dimpled Plastic Drainage Sheet



**VersiDrain® 8 Geo** is a lightweight medium strength drainage sheet with an adhered geotextile that provides rapid drainage of foundation walls and other underground structures.

### Applicable Areas

- Retaining & basement walls
- Planter boxes
- Landscaped decks

### Features & Benefits

- Easy to install lightweight rolls
- Adhered geotextile
- Drainage capacity (4.6 l.m.s)
- Load bearing strength (<25 t/m<sup>2</sup>)
- Waterproofing membrane protection

# TurfPave® XD

## Grass & Gravel Paver



F1 Pit Building, Singapore



Homebush Olympic Village, Australia



International Business Park, Singapore



Republic Polytechnic, Singapore

**TurfPave® XD** is a high strength stabilisation module designed to contain grass or decorative gravel for emergency vehicular access ways and occasional vehicular traffic.

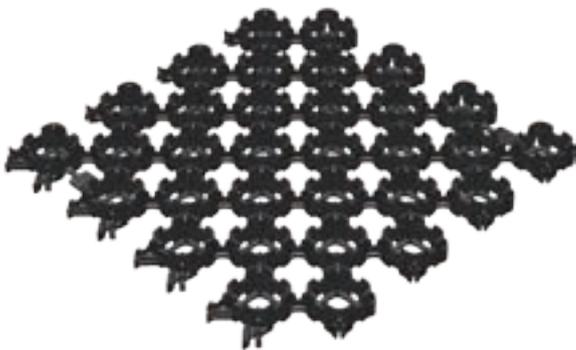
It replaces asphalt and concrete to create permeable surfaces thereby enabling these areas to blend into the aesthetics of their surroundings.

### Applicable Areas

- Fire engine access lanes
- Overflow & street shoulder parking areas
- Private house driveways
- Pedestrian pathways

### Features & Benefits

- Distributes vehicle weight on turf surfaces
- Able to support heavy vehicles
- Allows water infiltration
- Does not hinder root and runner growth



# VersiWeb®

## Cellular Confinement System



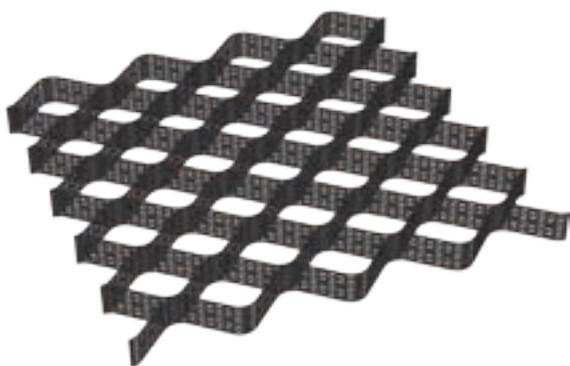
Capella Sentosa, Singapore



Downtown Line II Depot, Singapore



Installation at Capella Sentosa



**VersiWeb®** is a cellular confinement system incorporating ultrasonically bonded flexible thermoplastic strips that form a strong, dimensionally stable honeycombed structure which controls erosion by limiting movement of infill within its individual cells.

It offers architects and developers a comprehensive solution to long term slope and channel protection and stabilisation.

### Applicable Areas

- Slope stabilisation & protection
- Earth retention
- Load support
- Channel & shoreline protection
- Planting media containment

### Features & Benefits

- Long-term Slope/channel stabilisation and protection
- Conforms to most terrain profiles
- Easily transported and handled on-site
- Quickly dismantled for re-use



035-005

2011/12

# VersiJack®

## Paver & Bearer Support



Asy-Syakirin Mosque, KLCC Malaysia

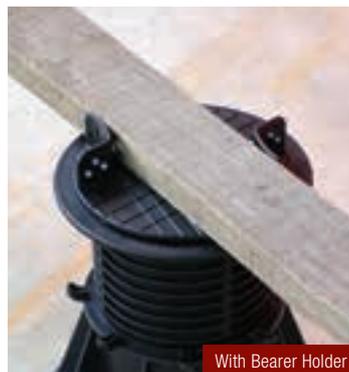


Wall Spacer

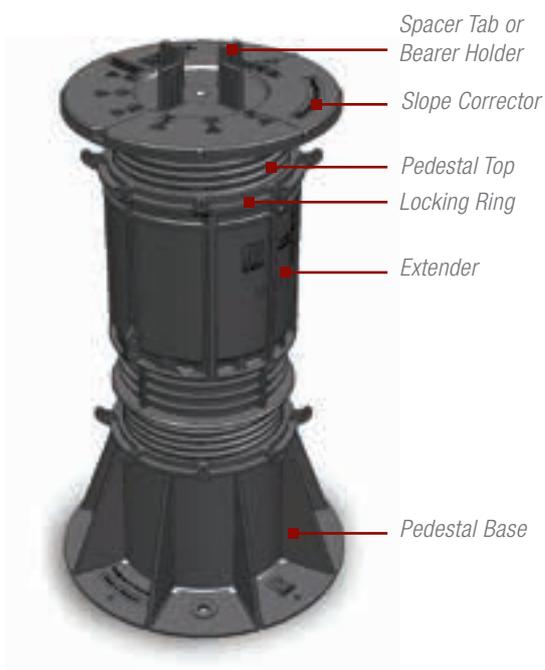
With Wall Spacer



With Spacer Tab & Slope Corrector



With Bearer Holder



**VersiJack®** is a new generation pedestal engineered to provide a versatile and sustainable solution to support raised pavers and timber decking.

It provides a cavity to conceal services, improves heat and sound insulation, and facilitates rapid surface drainage whilst allowing waterproofing and services to remain accessible.

Height range of VersiJack® is **37mm - 1016mm**, using only three main components parts (Top, Extender and Base).

Accessories include top and bottom slope-correctors, spacer tabs, height extenders, bearer holders and wall spacers.

### Features & Benefits

- Height range from 37 to 1016mm
- Progressive height increments
- Optional 0-5% slope adjustment
- Easy access to waterproofing membranes
- Improves insulation and conceals services
- Lightweight and reusable



035-005



2011/12

find it on ecospecifier.com



Sentosa Boardwalk, Singapore



Installation at Sentosa Boardwalk



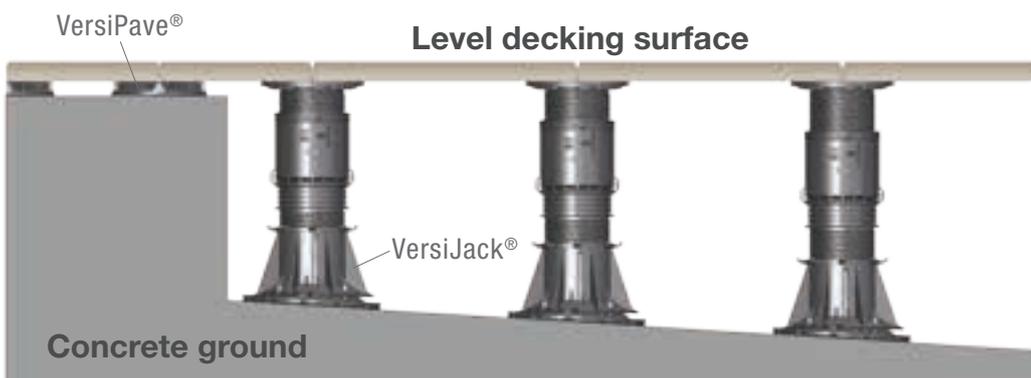
Melbourne Convention Centre, Australia

### Applicable Areas

- Plaza decks
- Swimming pool surrounds
- Courtyards
- Balconies
- Verandahs
- Water features



Nanyang Technological University, Singapore



Level decking surface can be achieved by using a combination of pedestals on uneven surfaces.

# SpiraPave®

## Paver & Bearer Support



1 Bligh Street, Australia



W Residences, Singapore



The Marq on Paterson Hill, Singapore



**SpiraPave®** is a height and slope-adjustable pedestal based on a unique 'step' design for supporting raised pavers and timber decking.

It provides a cavity to conceal services, improves heat and sound insulation, and facilitates rapid surface drainage whilst allowing waterproofing membranes and services to remain accessible.

Height range of SpiraPave® is **12mm - 74mm**, at 1mm increments. Additional height of 45mm is obtained with the use of a SP-45E extender.

### Applicable Areas

- Balconies, terraces & decks
- Swimming pool surrounds
- Verandahs
- Courtyards

### Features & Benefits

- Low minimum height of 12mm
- Precise 1mm height adjustment
- Optional 0-5% slope adjustment
- Easy access to waterproofing membranes
- Improves insulation and conceals services
- Lightweight and reusable



# VersiPave®

## Paver Support



UOB Plaza, Singapore



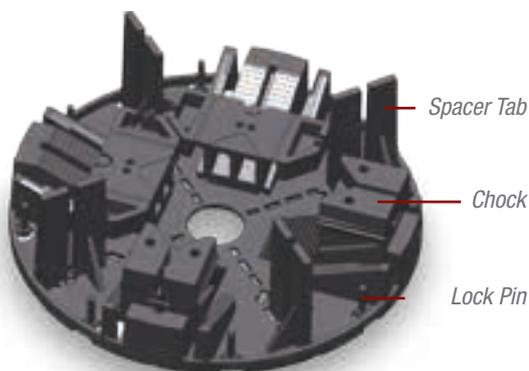
Burger Retirement Centre, Australia



Installation of VersiPave®



Chatswood Police Station, Australia



**VersiPave®** is a height adjustable pedestal for paver support engineered to provide a cost effective solution to support raised pavers with inconsistent or uneven thickness.

Height range of VersiPave® is **24mm - 45mm**, at 1mm increments. Additional height is obtained using VP-20E and/or VP-40E extenders.

VersiPave® is cost-effective and can be quartered or halved for placement along wall edges and corners.

### Applicable Areas

- Balconies, terraces & decks
- Swimming pool surrounds
- Verandahs
- Courtyards

### Features & Benefits

- Height range from 24 to 45mm
- Precise 1mm height adjustments
- Accommodates pavers of inconsistent thickness
- Easy access to waterproofing membranes
- Improves insulation and conceals services
- Lightweight and reusable



# VersiTank®

## Stormwater Management



Punggol Waterfront Promenade, Singapore



Petir Park, Singapore



Ewart Park Private Residence, Singapore



**VersiTank®** sub-surface water infiltration/storage tank provides an efficient, cost effective and ecologically sustainable solution for stormwater control and management. It restores on-site natural water filtration, controls the release of surface run-off, and also harvests water for on-site reuse.

It can be conveniently installed and is available in several sizes to suit specific installation requirements.

### Features & Benefits

- Reduces stormwater runoff
- High compressive strength
- Less costly than concrete and metal systems
- Low storage and transport costs
- Easy assembly and installation
- Improves quality of stormwater runoff
- Discharge to main sewer system



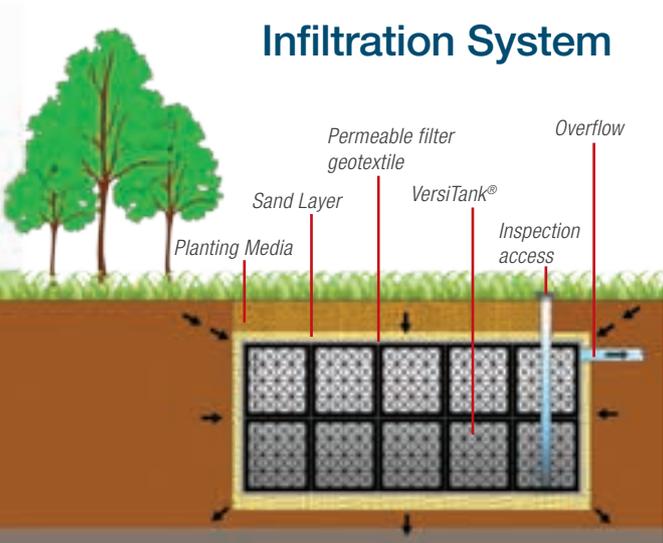
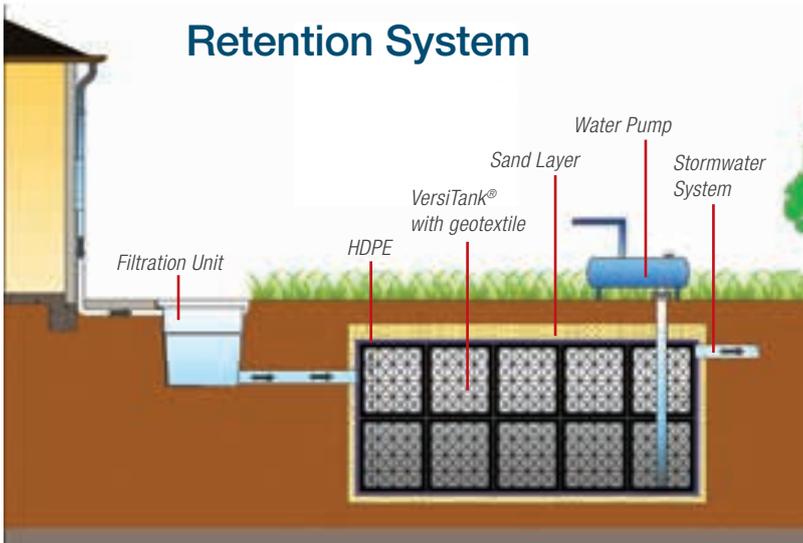
035-005





**Applicable Areas**

- Green parks
- Sports fields
- Swales
- Home gardens
- Green open spaces
- Rain gardens



# Sustainability In Our Products

Elmich landscape engineering products help our customers achieve their eco-friendly goals in every phase of the building's lifecycle - from designing and specifying the building to maintaining and enhancing it. Our products contribute to green building certification as we strive towards sustainable growth and modernisation.



## What Sets Us Apart From The Rest?

### Product Management

Elmich aims to deliver environmentally safe, innovative, and cost-effective urban greening solutions to our customers worldwide.

Every aspect of our business, from research and development and product development to supply chain management is centrally coordinated ensuring the delivery of a well engineered and tested product.

### Green today for a better tomorrow

We are conscious and proud of our unique role in co-creating a sustainable planet. Green label certified products using 100% recycled plastics are just one of the ways to reduce our carbon footprint.

### Innovative Spirit

Our commitment towards sustainable green building drives us to constantly innovate and improve our products to deal with the ever-changing requirements of the industry.

“Our vision is to provide sustainable building solutions to **create cities, where urban meets nature.**”



### Green Label Certifications

Elmich's products are awarded with Singapore Environment Council's Green Label accreditation as well as Australia's Ecospecifier accreditation.

### Member of Green Building Councils

Elmich affirms its commitment towards green and sustainable building efforts through its membership in both the US and Singapore green building councils.

### Business Continuity Management

Elmich has been certified Business Continuity Management (BCM) ready according to ISO 22301 standard since November 2011. This means business as usual for our customers even in the event of a crisis.

### ISO 9001 certification

Elmich assures its client of high quality products and services.



Elmich Australia Pty Ltd is now a leading provider of state-of-the-art and ecologically-minded urban landscaping, waterproofing, drainage, and stormwater management solutions to building developers, contractors and landscape architects.

At Elmich, we pride ourselves as a professional, responsible and eco-sensitive company. We are confident of serving our customers and stakeholders with quality, innovation and resilience.

Everyone who works at Elmich is driven by one singular passion - **enhancing lives for you and future generations.**

#### **ELMICH AUSTRALIA PTY LTD**

Unit 18/8 Avenue of Americas  
Newington NSW 2127  
Tel: (+612) 9648 2073  
Fax: (+612) 9648 4731  
Email: [australia@elmich.com.au](mailto:australia@elmich.com.au)

[www.elmich.com.au](http://www.elmich.com.au)

Singapore | Seattle | Sydney | Zurich | Guangzhou | Shanghai



Strategic Partner



Member



**Distributed by:**