



**GTC** GREEN  
TIMES  
CORP®

**VersiTank®**

BỂ TIÊU VÀ TÍCH NƯỚC MƯA,  
TÁI SỬ DỤNG NƯỚC MƯA

10



**1** Trồng cây trên sàn bê tông  
VersiCell®



**2** Trồng cây trên mái tôn  
VersiDrain®25P - VersiDrain®6P



**3** Trồng cây tự tưới nước  
Mep® Tray



**4** Trồng cây trên tường  
VGM®



**5** Trồng cỏ trên bãi đậu xe, lối đi  
TurfPave®



**6** Trồng cỏ trên triền dốc, triền núi  
VersiWeb®



**7** Trụ nâng sàn gỗ, đá...  
SpiraPave®



**8** Trụ nâng sàn bê tông  
VersiJack®



**9** Bể thu nước mưa  
VersiTank®



## Stormwater Management Tank

A lightweight plastic sub-surface modular stormwater infiltration storage tank. Modules interlock both horizontally and vertically to produce maximum stability under high load bearing situations.

## Hồ chứa nước ngầm không giới hạn thể tích, không bê tông

VersiTank là khối nhựa rất nhẹ dùng để tạo nên các hồ chứa nước mưa, trong lòng đất. Mô-đun có tích hợp các khóa ngang và dọc, liên kết với nhau tạo nên những hồ chứa nước có kích thước tùy ý, chịu tải trọng cao. Không dùng bê tông, sắt thép.



## Features & Benefits

1. Sub-surface infiltration
2. Underground water storage
3. Ultra high strength (12-40t/m<sup>2</sup>)
4. Interlocks both horizontally & vertically
5. Caters for all volume requirements

## Applicable Areas

1. Residential developments
2. Commercial developments
3. Industrial developments

## Ưu điểm

1. Lọc nước ngầm
2. Làm hồ chứa nước ngầm trong lòng đất
3. Siêu tải trọng (12-40t/m<sup>2</sup>)
4. Có khóa ngang theo 2 chiều (2D) đứng và ngang
5. Không giới hạn thể tích, tùy ý thiết kế theo ý mình

## Sử dụng

1. Phát triển hồ chứa nước dân dụng
2. Phát triển hồ chứa nước trung tâm thương mại
3. Phát triển hồ chứa nước khu công nghiệp

[www.miwa.vn](http://www.miwa.vn)

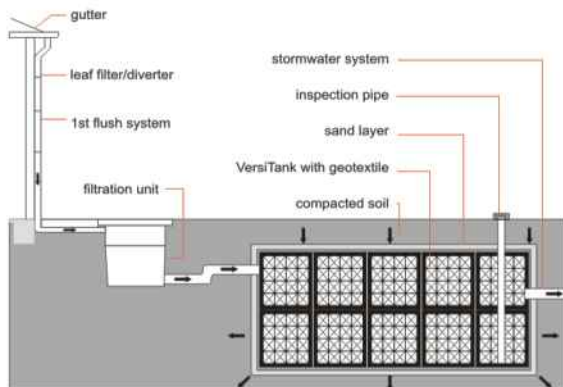
*Môi trường xanh, mỗi hạnh phúc, mỗi an lành!*





## Advantages

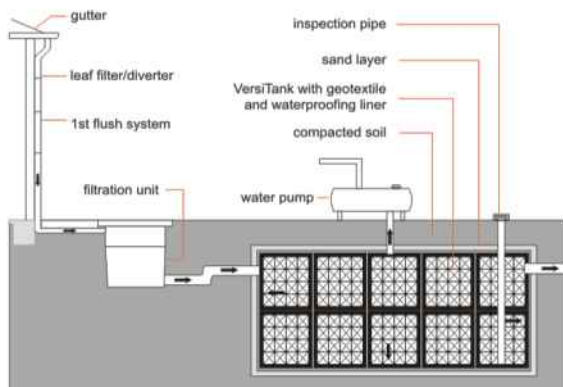
- High compressive strength allows use under trafficable areas
- Interlocks vertically and horizontally for maximum stability
- Less costly than bio-swales, retention ponds, concrete and metal storage systems
- Caters for all volume requirements
- Easy assembly of panels and installation of units
- No surface water storage hazards



**VersiTank Infiltration System**

## Specifications

Refer to individual product brochures



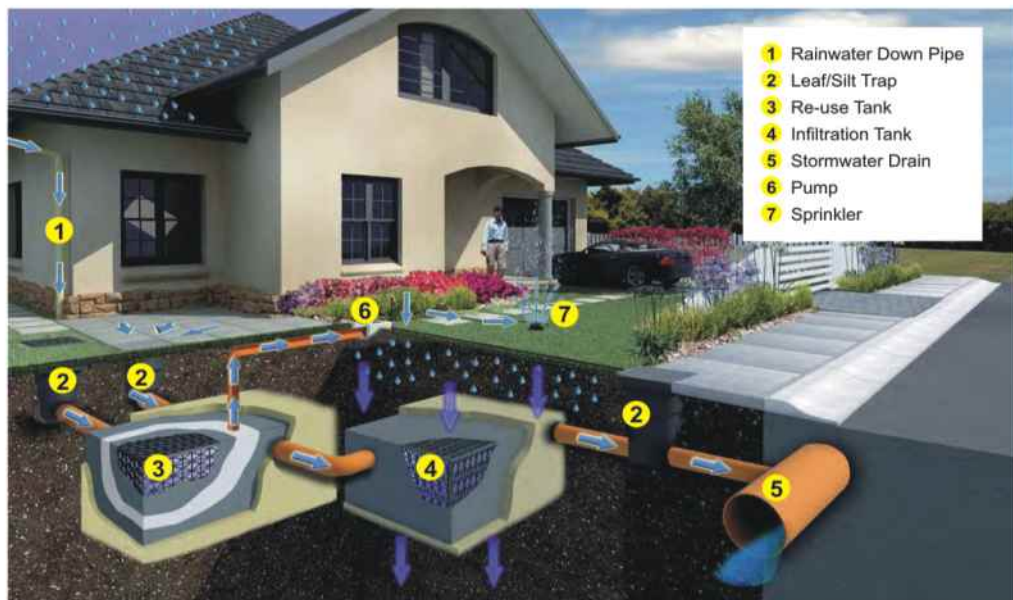
**VersiTank Retention System**

**Note:** The information provided in this brochure is based on current knowledge and experience and does not infer any legally binding assurance or warranty, expressed or implied. Intending purchasers should verify whether any changes to specifications or applications or otherwise have been made since this literature was issued. The products in this brochure are manufactured using specified recycled plastics under detailed quality control standards and procedures. Factors including source of raw material and manufacturing processes may impact slightly on the strength of the modules.





VersiTank® offers architects, engineers and developers an efficient and cost effective sub-surface alternative to conventional methods for stormwater management.



The expansion of urban and industrial development has generated large areas of impermeable surfaces such as roofs, car parks, playgrounds and roads. As a consequence, stormwater run-off increases substantially resulting in flooding and the discharge of pollutants into streams, rivers, ocean outlets and storage systems.



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Conventional drainage systems involve conveying rainwater run-off from urban areas via channels and pipe systems to storage or discharge outlet points. These drainage systems require high installation and maintenance costs and are neither efficient nor effective methods of dealing with high volumes of polluted water discharging from impervious surfaces.



**VersiTank®** is a high strength modular stormwater infiltration or storage tank made from recycled polypropylene material.

**VersiTank®** units have the capacity to cater for stormwater run-off from individual houses to the largest commercial and industrial developments and can be tailored to suit specific requirements of each site.

**VersiTank®** units are easily assembled on-site by clipping together lightweight, interlocking panels. Assembled units have high compressive strength and can be interlocked to further ensure that the system remains stable under trafficable or high weight bearing load areas.





Assembled **VersiTank®** units, when enveloped with a permeable geotextile or filter fabric, allow stormwater stored within the tank void to be discharged into the surrounding soil and via controlled release to connected stormwater pipes. The inherent run-off and soil infiltration rates must be determined to calculate the number of **VersiTank®** units required.

**VersiTank®** units may be enveloped in an impervious membrane to allow for the retention or temporary storage of stormwater, where soil conditions do not permit discharge into the surrounding soil. Stored water is re-used or released, subject to local environmental regulations, via a connected stormwater pipe incorporating a flow control valve.

**VersiTank®** units must be installed to engineering specifications and must be used in conjunction with an in-line proprietary leaf and silt trap system or other recommended filtering units.



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1

**Install waterproofing  
liner / membrane**

Trải màng chống thấm



2

**Install VersiTank**

Lắp mô-đun **VersiTank**  
chồng lên nhau.



3

**Cover the tank with  
Geotextile**

Trải vải địa lên trên nắp hồ



4

**Back fill, planting grass &  
make walk way...**

Lấp đất, trồng cỏ, làm lối đi...





**Park dry pond - bio-swale @  
Punggol East Neighbourhood  
Park & Playground  
Singapore**



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**Stormwater management  
@ Greenwood Sanctuary  
@ Admiralty  
Singapore**

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Swimming pool  
conversion, private  
residence @ Mt Rosie  
Singapore



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**Water retention for re-use  
private residence @  
Ewart Park  
Singapore**

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GREEN TIMES CORP®

**CÔNG TY THỜI ĐẠI XANH**

**Mái Sân Vườn - Tường Hoa Lá  
GREEN ROOF & GREEN WALL**

**Website**

[www.miwa.vn](http://www.miwa.vn)

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