

ProTank® Modular Tank

Superior Stormwater Management

Designed to collect water at its source



Product Information

ProTank® Modular Tanking System is a unique modular subsurface drainage system designed to collect water at its source and can be used in any soil type. ProTank® has the flexibility to infiltrate, attenuate, detain or harvest water for re-use. Its lightweight, strong structural design, modular nature, high void surface area and storage volume up to 90% of the excavated area makes the product ideal for underground rainwater harvesting, infiltration, attenuation tanking system for domestic & commercial applications, Grass swales systems, retrofits of open concrete channels, roadside drainage systems, grey water & septic leach fields.

Applications

ProTank® can be installed under driveways, car parks, roads, landscaped areas and other trafficable applications.

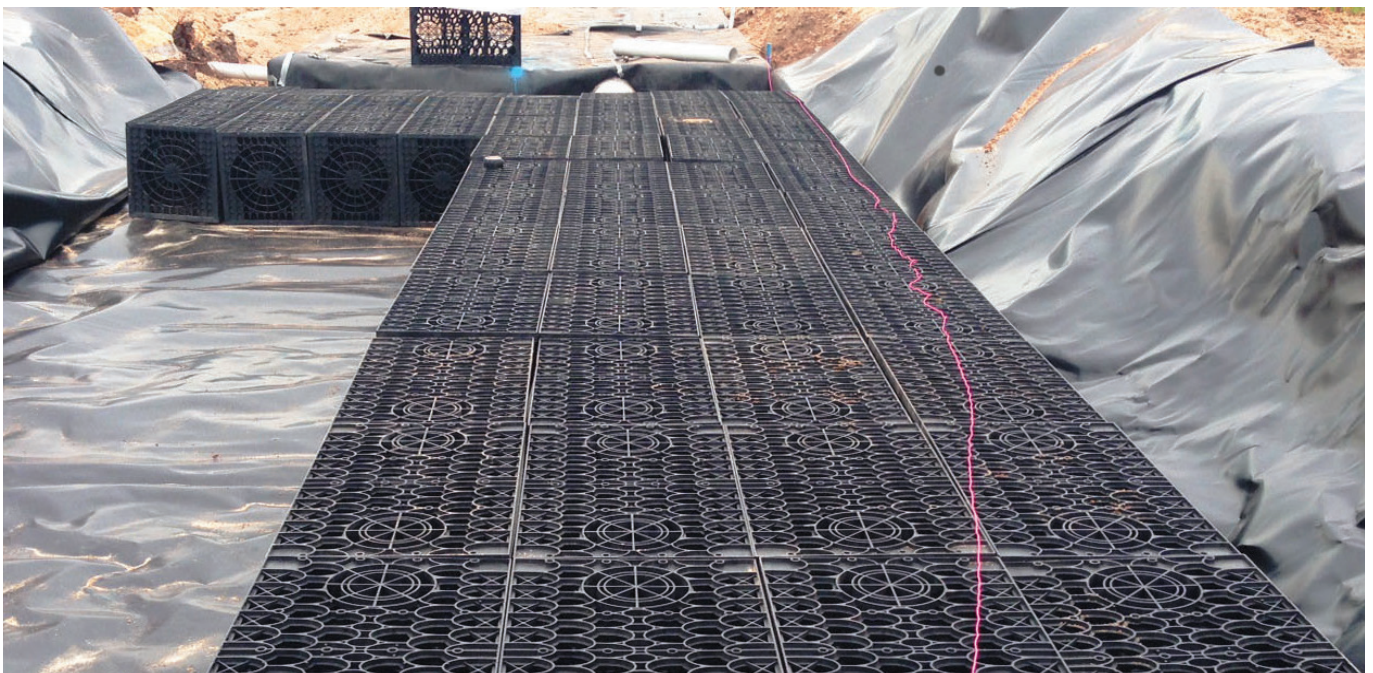
ProTank® Modular Tank

Benefits

- Manufactured from premium quality recycled resin to meet the most demanding performance requirements.
- Generous internal and surface void area provides optimum storage and/or infiltration capacity.
- Easy access via specially designed ports on every surface of the module. This ensures trouble free access and maintenance.
- No requirement for imported drainage aggregate or special fill.
- Low cost, light weight and fast safe installation.
- Can be installed as a 'single block gallery' or 'finger gallery' to accommodate a variety of hydraulic conditions and space allowances.

Features

- Economical alternative to traditional granular methods
- Infinite storage sizes available
- Lightweight and easy to install
- Replacement for aggregate drainage treatments
- Water detention
- Water storage



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Product Data Sheet

Module (units)	Width (mm)	Length (mm)	Height (mm)	Typical Tank Volume (litres)	Modules per kL
Single (one)	403	720	443	129	123
Double (two)	403	720	866	252	239
Triple (three)	403	720	1289	374	355
Quad (four)	403	720	1712	497	472
Penta (five)	403	720	2135	620	589

Internal Porosity

>93.5% Void

Material

100% recycled polypropylene (customised polymers may be used for special projects)

Biological and Chemical Resistance

Unaffected by mould and algae, bacteria, soil-borne chemicals, bitumen, oil and light acid or alkaline solutions

Service Temperature

-10°C to 85°C

Flow Rate

2400 L/minute per single module area @ i = 0.01

Module Configuration	Compressive Strength (Unconfined)	Minimum Recommended Cover	Maximum Recommended Cover	Maximum Depth to Bottom of Tank	Maximum Height of Modules
Standard Duty (3-Plate Module)	21 T/m ²	300mm	1200mm	2400mm	1712 (4 high)
Heavy Duty (4-Plate Module)	24 T/m ²	600mm	2000mm	3000mm	2135 (5 high)
Ultra Duty (5-Plate Module)	28 T/m ²	600mm	2000mm	3000mm	2135 (5 high)

- Compressive strength results are derived from testing in an 'unconfined state', meaning that these are index tests which are more conservative than in-ground, backfilled and compacted conditions.
- Standard Duty Modules are not recommended for trafficable ('ride on vehicle') applications.
- Minimum and Maximum cover recommendations for Heavy and Ultra Duty Modules allow for 'light commercial' vehicles only. Applications for higher dynamic loads should be assessed separately by the project engineer.
- ProTank® modules must be installed in accordance with the 'ProTank® Assembly and Installation Guidelines'.

About Us

Leaders in Geosynthetics

Global Synthetics is a 100% Australian-owned company, proud to offer a complete range of high-quality geosynthetic products backed by over 200 years of combined staff experience in the industry.

We have supplied products to some of the largest recent infrastructure works in Australia. Global Synthetics provides major benefits to any geotechnical engineering project with the right products and our technical expertise.

Global Synthetics products are used in the following applications:

- Pavement Stabilisation
- Ground Improvement
- Soil Reinforcement and Retaining Structures
- Water Management
- Drainage Systems & Hydraulic Works
- Landfills
- Coastal Erosion Structures

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