

Flo-Vault[®]

MODULAR UNDERGROUND TANK SYSTEM

BROCHURE

APPLICATIONS COVERED

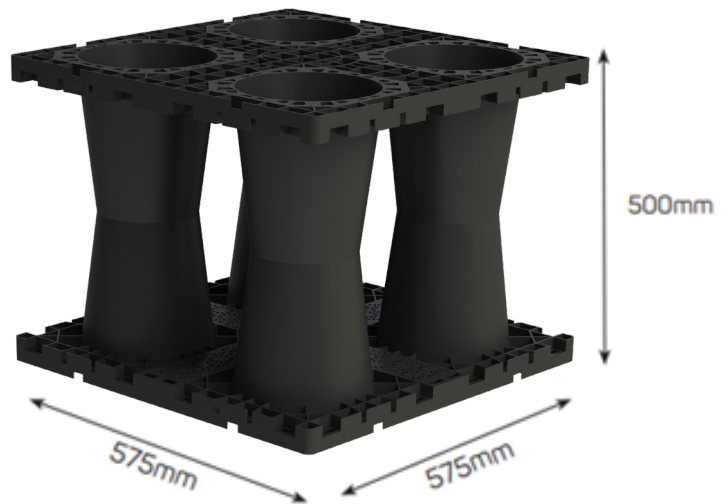
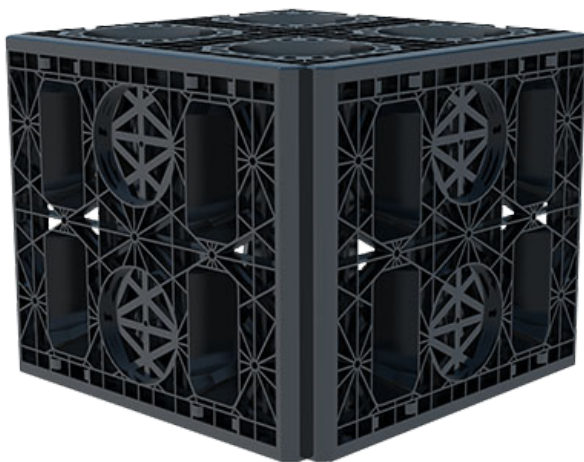
- Infiltration Tanks
- Re-use Tanks (Rainwater Harvesting Tank)
- O.S.D (On Site Detention Tanks)



FLO-VAULT®

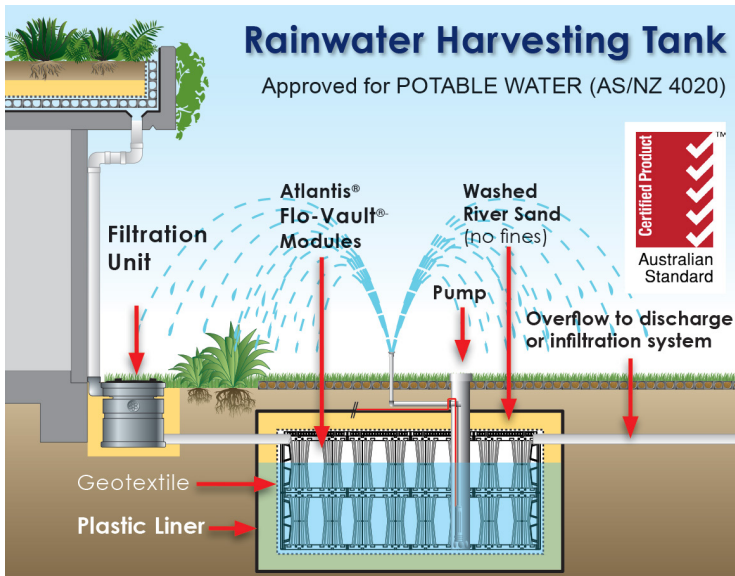
The Atlantis Flo-Vault® is a structural lightweight modular tank system used to construct underground water storage for various applications. The modular nature of the system allows for the easy construction of tanks of any volume and can be designed to accommodate specific site conditions.

Atlantis modular tank systems use surface and underground infiltration techniques, resulting in clean water that can be re-used or allowed to re-enter the natural water system. Atlantis modular tank systems offer a highly efficient option for storm water management in any kind of soil.



Part Number	FLO-VAULT 70081 SIDE PLATE 70072 CLIP SINGLE 70073 CLIP DOUBLE 70074
Part Size	(H) 500mm (W) 575mm (L) 575mm (H) 22.63" (W) 22.64" (L) 22.64"
Ultimate Strength	38 tonnes/SQM (54.9psi) *Ultimate strength till failure (not yield)
Gross Volume	0.165 m3 (5.838 ft3)
Storage Capacity	157.05 litres (41.49 US Gallons)
Modules per Volume	6.06 modules per m3 (0.17 modules per cubic ft)
Pieces Per Square Metre	3
Void Ratio	95%
Material	85% Recycled Polypropylene 15% Propriety Selected Materials
Colour	Black
Chemical & Biological Resistance	Unaffected by molds, algae, soil-bourne chemicals, bacteria and bitumen.
Service Temperature	-10°C - 70°C (14 F° - 158 F°)
Approximate Material Lifespan	100 years + with no ultra violet exposure

SYSTEM APPLICATIONS



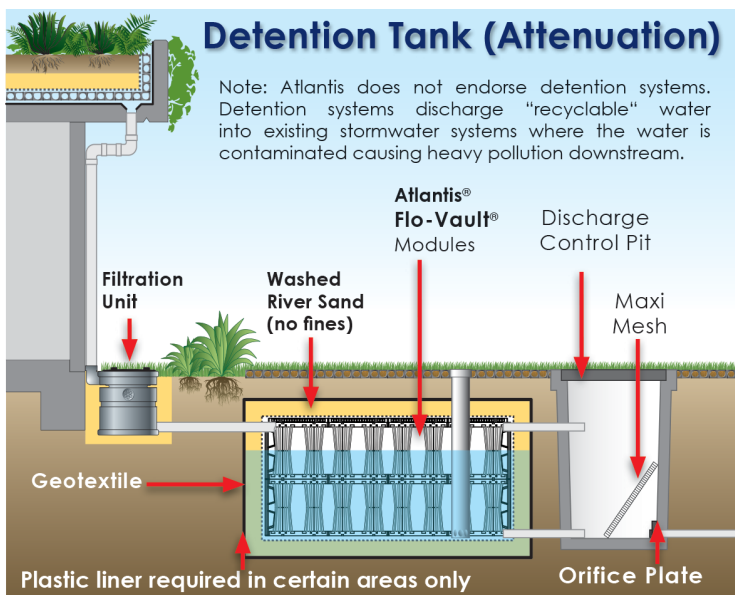
RAINWATER HARVESTING (RE-USE TANK)

The Atlantis® Re-use System has proven effective in providing a regular clean water supply for domestic and commercial applications.

How It Works!

The system captures water from both landscaped areas through surface infiltration and from roof areas which are filtered through an Atlantis® Filtration Unit. Clean water is retained within the storage area away from harmful U.V. light and heat remaining cool underground readily available for re-use.

Applications: Typical applications include flushing toilets, in washing machines, watering gardens and washing cars.



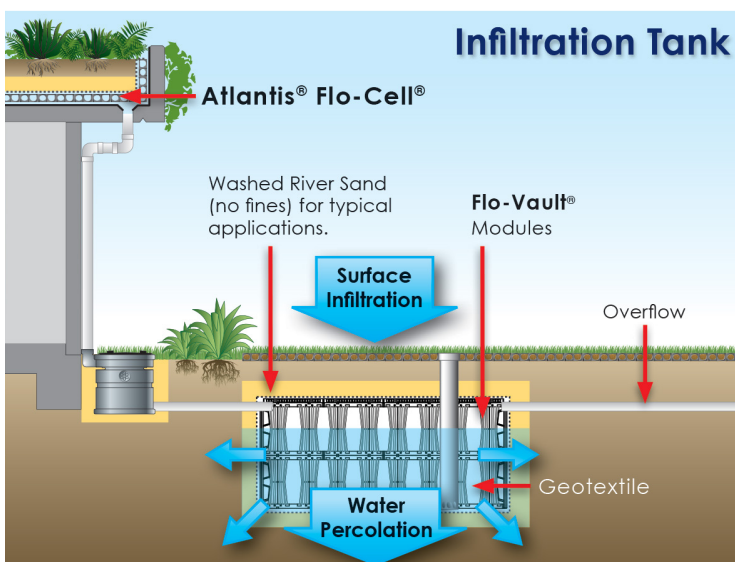
DETENTION TANK (ATTENUATION)

The Atlantis® Detention System is a cost effective solution that can also address water quality. The system offers flexible design options, saving installation time and delays to site access.

How It Works!

Water captured from roof and paved areas are filtered through an Atlantis® Filtration Unit before entering the storage area (Flo-Vault® tank Modules). Water is then slowly released through the discharge control unit (DCU).

Applications: Developments that need to meet Local Council Stormwater requirements.



INFILTRATION TANK

The infiltration tank system is the ideal way to manage stormwater runoff in permeable or semi-permeable soil conditions.

How It Works!

The system is designed to capture surface water through infiltration, and then clean and filter the water before it is allowed to recharge the water table providing moisture for surrounding vegetation. The Atlantis® Filtration Unit also captures and cleans roof water before entry into the storage area (Flo-Vault® Modules).

Applications: New developments required to meet water sensitive urban design standards.

Water Quality

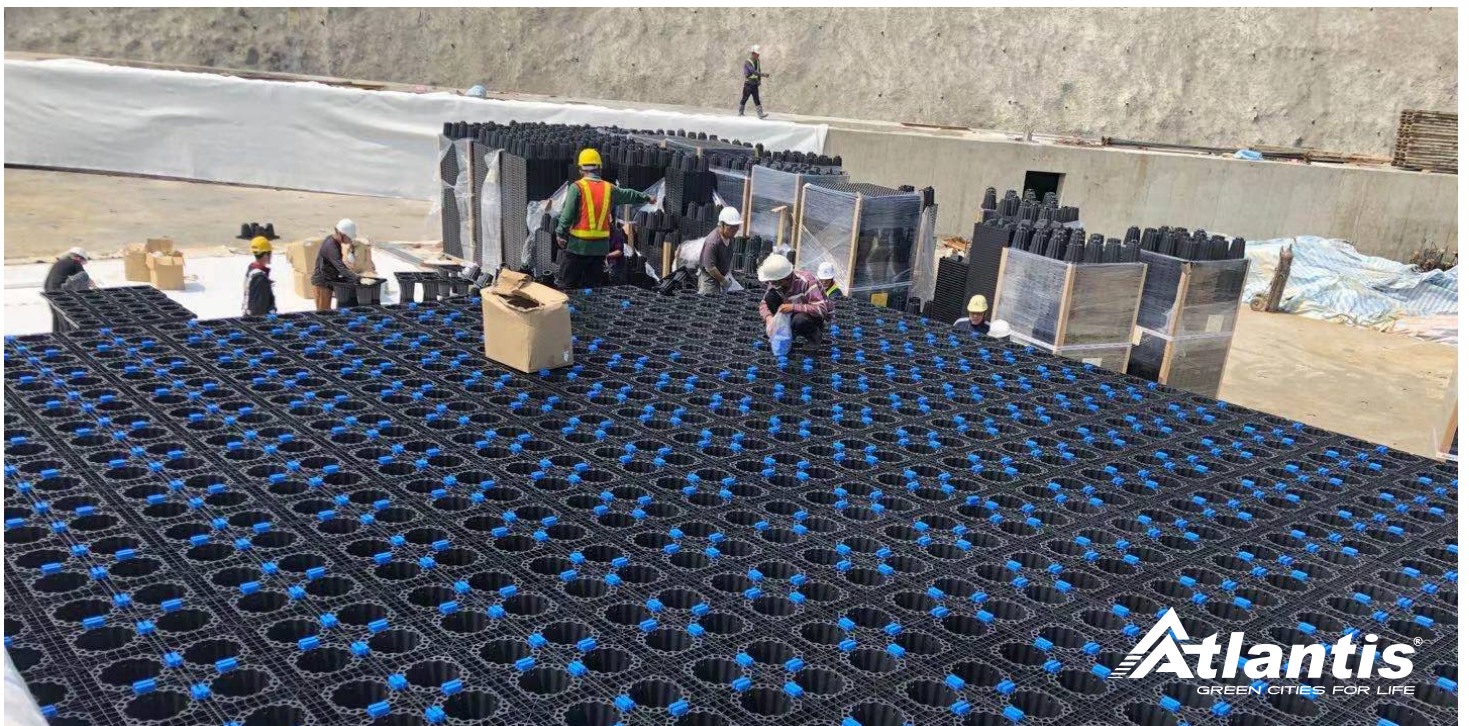
Atlantis modular tank systems excel when there is a requirement to achieve high water quality, particularly in the effective removal of nutrients and gross pollutants. In addition to the obvious environmental benefits, the sub-surface location of the tank system provides more useable ground area and enhanced aesthetic setting compared to above ground concrete or plastic tanks.

The Modular Advantage

Atlantis modular tank system performance supersedes outdated aggregate trenches. The Atlantis system provides a void space of over 90% compared to less than 20% in typical aggregate trenches. Consequently, with a smaller footprint the Atlantis system achieves the same storage capacity as an aggregate trench. This saves time and money in installation and civil works costs. The lightweight design of Atlantis® modular tank modules also make installation quicker, safer and cheaper. No sediment build up occurs in the Atlantis system, unlike the clogging that is characteristic of aggregate based approaches.

APPLICATIONS

- Infiltration / Absorption Tanks
- Rainwater Harvesting Tanks.
- Storm water Detention / Attenuation Tanks / O.S.D Onsite Detention
- Underground Storm water Channels
- Underground Drainage
- Lightweight Structural Fill
- Underground Reservoirs
- Aquifer Recharge



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