



Water Management for Life

ESTABLISHED IN 1986

ATLANTIS GREEN CITY

The future of urban stormwater management



www.atlantiscorp.com.au

Green Cities

Our Future for Sustainable Living

Introduction

Green Cities are our future for sustainable living. For many centuries, mankind has been conquering the landscape we live in, converting the natural environment into impervious urbanisation.

Since the 1970's, the founder of Atlantis envisioned the Green City would be the future for modern urban development. After working in the Landscape Architectural industry for many years, achieving the goal of a green city seemed distant.

Our founder decided something needed to be done and in 1986, Atlantis released the first product, the Atlantis® Drainage Cell. This product was designed to make rooftop gardens more accessible to landscape designers where building roofs were not designed for heavy loadings, let alone gardens. The Atlantis® Drainage Cell proved its worth and became a favourite for landscape contractors due to the easy installation and effective drainage.

existing conditions of a hot
“ROMAN CITY”



The Problem: IMPERMEABLE SURFACES
Impermeable construction materials and surfaces have the following effects;

- Absorb & retain heat
- Polluted stormwater runoff
- Urban flooding
- Loss of rain as a resource

Atlantis Today

Atlantis has come a long way in the pursuit of the green city. We provide many solutions for the creation of green cities including the treatment and purification of stormwater, sewage, rainwater harvesting and aquifer recharge to name a few.

Atlantis continues to progressively develop innovative products and systems to convert the concrete jungle into a sustainable Green City.

What can a Green City achieve?

Benefits of Lanscaping in Urban Cities

- Produce Oxygen
- Convert CO² emissions
- Absorb & Transform Sunlight
- Reduce Ambient Temperature
- Reduce the heat of buildings
- Create large catchment areas
- Capture and Harvest Rainwater
- Reduce Stormwater Runoff & discharge
- Reduce Energy Costs
- Create Habitat for Wildlife



The Solution: This urban area is much cooler roofs are covered with vegetation. Plants clean the air, water is harvested and natural waterways preserved.....

Water Sensitive Urban Design



100% PERVIOUS CITIES

The use of permeable surfaces allows rainfall to immediately soak into the ground. Rainwater can easily be harvested through underground water carriers and tanks.

Green cities act as a large permeable surface and can be easily built, by incorporating roof top gardens, planter boxes and landscaped podiums. The added vegetation in cities reduce the urban impact on global warming, provide a sink for carbon and provide a point source solution for stormwater, reducing and even eliminating contaminated runoff into natural water ways.

The results are a sustainable intergration between urbanisation and nature, creating a sustainable environment.



▲ Atlantis first Eco House

Atlantis Ecological House

A universal design concept for houses and cities.

www.roof-gardens.net

www.stormwater-harvesting.com.au

© Atlantis design by Humberto Urríola

1. Roof garden
2. Solar Panel
3. Atlantis G-ODigester/Septic tank
4. Grey water tank for evapotranspiration
5. Atlantis® Flo-Cell®
6. Storage water tank for reuse
7. Flo-Grid® Permeable paving
8. Atlantis® Turf Cell® grass reinforcement structure
9. Clean energy generator (SEG)

By John Searl
<http://www.searlsolution.com/index.html>
<http://www.youtube.com/watch?v=z8qvSNkiB9M>

Atlantis Water Management Systems:

1. Provide water storage for harvesting or for release into the ground.
2. Provide roofgardens, planter box and podium systems that release clean water into the environment.
3. Eliminate or reduce water run off.

The modular nature of the Atlantis stormwater management system enables designs to be tailored to suit the specific requirements of each site.

The Atlantis modular tanks provide storage, attenuation and infiltration capacity for stormwater run-off. The system can be intergrated into individual houses or large commercial developments.

Atlantis Systems Consist of:

- permeable paving solutions
- sub-surface horizontal water carriers
- storage/infiltration systems

BENEFITS:

1. Capture and reuse rainfall
2. Self sufficient water supply
3. Reduce demands on stormwater system
4. Improve air quality
5. Reduce sewer infrastructure
6. Self sufficient energy supply
7. Recycle household waste

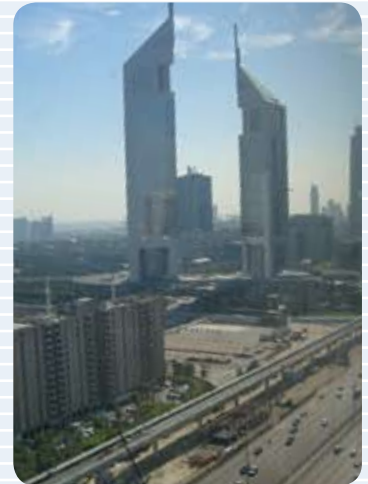


Atlantis provides solutions that mimic the water cycle of nature incorporating innovative technologies and systems for current living standards.

Making Dubai a Green Paradise

Dubai is becoming a world's leader in revolutionary and advanced architecture.

Atlantis Water Management is committed to transforming the city, into a lush green and ecologically sustainable environment. We use a holistic approach in designing our systems for the construction of environmentally friendly buildings that can manage water in a responsible manner, and provide Dubai with environmentally sustainable assets.



Current landscape

Benefits...

- ✓ **Economical**
Eliminates the need for expensive stormwater infrastructure.
- ✓ **Recycle Storm Water**
Capture, clean and recycle 100% of stormwater at point source.
- ✓ **Improve Air Quality**
Increased vegetation & absorbs carbon and produces oxygen.
- ✓ **Reduce Global Warming**
Roof Gardens cool cities and reduce airborne pollutants rising into the atmosphere.
- ✓ **Eliminate City Floods**
Capturing all rainfall on site reduces the burden on urban stormwater systems.
- ✓ **Reduced Maintenance**
Atlantis systems are self cleaning and require little or no maintenance.



Artists impression of the future.

Atlantis Housing Estates



- ✓ Permeable Parking Lots
- ✓ Roof Gardens
- ✓ Permeable Roads

0% RUNOFF

Atlantis system: Rainwater harvesting using roof gardens, underground channels and tanks. Stormwater infiltration for ground water recharge.

-  = Rainwater Harvesting Tank
-  = Infiltration Tank
-  = Underground Channel
-  = Clean waterways
-  = Roofgardens



Atlantis incorporate innovative technologies that mimic the natural process in a system ideal for current living standards.

www.roof-gardens.net



Sustainable Roof Garden

The Green Vision
Increased vegetation within cities reduces heat and air contamination.



Sustainable Roof Garden



Sustainable Podium Drainage



Planter Box Installation



www.stormwater-harvesting.com.au

www.roof-gardens.net



Sustainable Roof Garden



Roof Garden

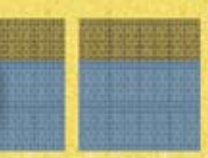
www.porous-paving.com.au



Turf Cell® installation for a parking lot



Permeable Paving



Other Environmentally Friendly Solutions for:

Rainwater harvesting for sportsfields and agricultural purposes



Underground tanks are ideal for rainwater harvesting for reuse and irrigation.



Underground tanks combined with drainage cells for rainwater harvesting for reuse and irrigation.



Rainwater harvesting for irrigation in agriculture.

Underground Channels



Channels to collect and infiltrate excess water.

Edge Infiltration



Flo-Grid® porous paving for edge drainage and infiltration.

Wall Drainage



Wall panels for relief of hydrostatic pressure ensuring long term wall integrity.

Permeable Roads



Road-Cell® for heavy duty permeable roads. Suitable for permanent and temporary roads.



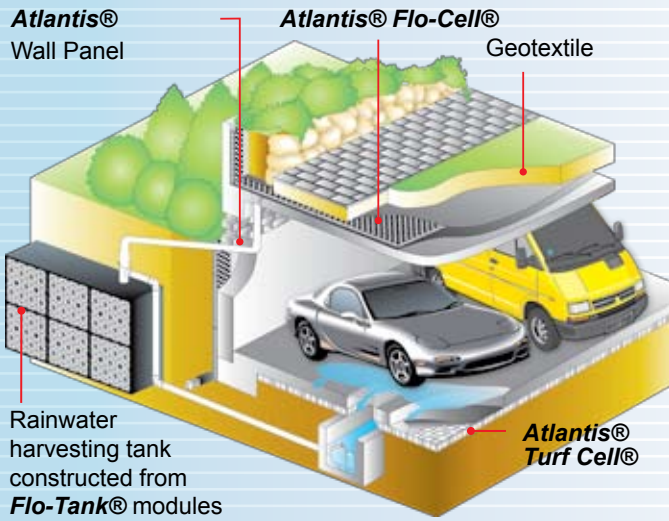
Road-Cell® for heavy duty permeable roads. Suitable for permanent and temporary landing strips.



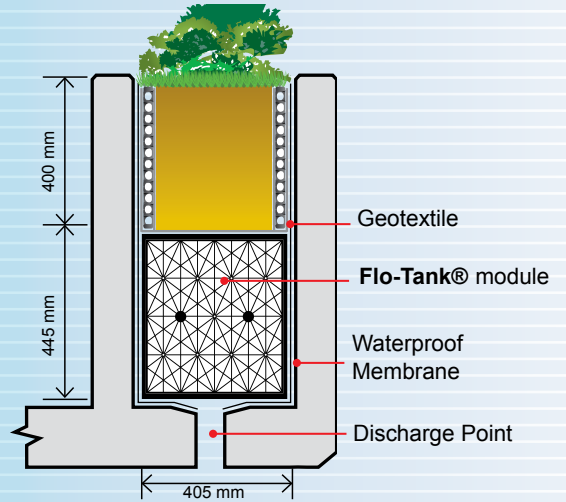
Turf Cell® & Gravel-Cell® for permeable grass or gravel reinforcement, ideal for access roads and car parking lots.

Green Building Systems

1 Drainage & Stormwater Management for Underground Areas



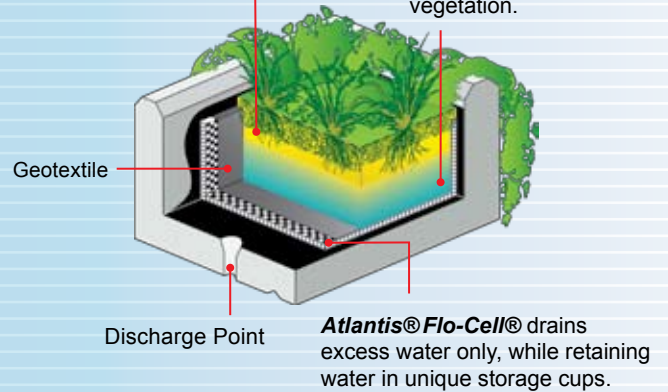
2 Void Space Fill & Drainage



3 Planter Box Drainage

Free Draining Material ensures efficient drainage.

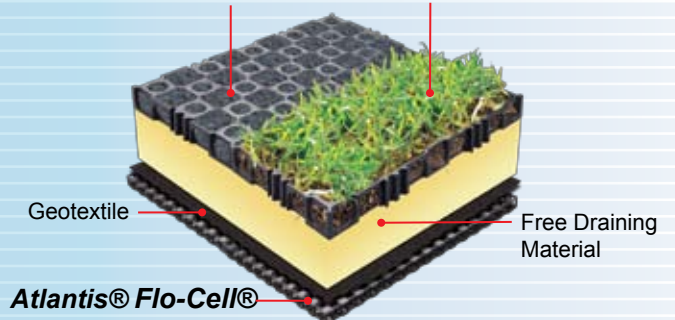
Perch water table that provides ideal moisture conditions for growing vegetation.

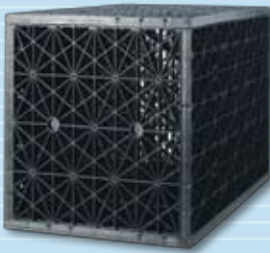


4 Permeable Driveways & Car Parks

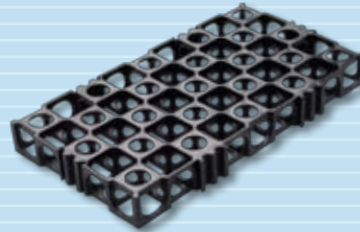
Gravel Cell® Gravel Reinforcement Structure

Turf Cell® Grass Reinforcement Structure





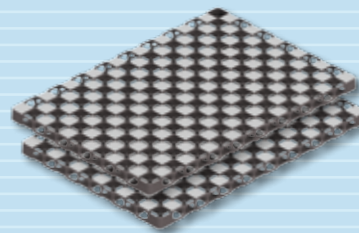
Flo-Tank[®] tank module
Matrix[®] tank module
Modular tanks for rainwater harvesting, infiltration and detention.



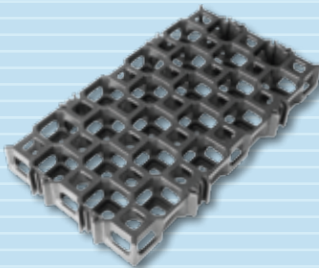
Turf Cell[®]
Flo-Cell[®] 52mm
Permeable paving for roads, pathways and driveways.
52 x 260 x 480mm



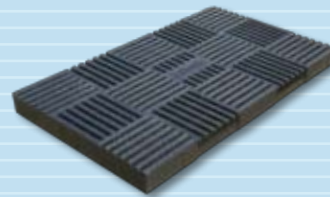
Flo-Pipe[®]
Guides and allows water infiltration



Flo-Cell[®] 20mm, 30mm
For draining and retaining water from catchment areas. Removes water build-up behind walls
20 x 405 x 620mm
30 x 405 x 620mm



Road Cell[®] 52mm heavy duty cell
Permeable paving for roads of heavy traffic
52 x 260 x 480mm



Flo-Grid[®]
Durable permeable paving for pathways and driveways
50 x 395 x 685mm

Visit our websites for more information:

www.roof-gardens.net www.drainagecell.com

www.atlantiscorp.com.au

www.stormwater-harvesting.com.au www.porous-paving.com.au

Product information is available for every application

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