

Atlantis Product Guide 2016

Underground tanks | Vertical Drainage | Trench Drainage | Landscape Drainage
Vertical Garden Systems | Turf Reinforcement | Gravel Reinforcement



Atlantis - Green Cities for Life

Company Profile

Atlantis was formed in 1986 by Landscape Architect, Humberto Urriola following his dream of creating Green Cities.

Green City Vision

In the early 1970's Humberto developed a vision to cover cities with beautiful landscaped gardens. Buildings would be covered with hanging gardens, rooftops with intensive gardens and parks & gardens added to the urban landscape. The Green Cities would be part of a new urban cycle that improves water quality, reduces contaminated runoff, improves air quality, reduces the heat island effect and improves the mental health of the population.



We believe in creating Green Cities For Life a complementary relationship between urban development and the environment.

The Beginning - The Original Drainage Cell

As a Landscape Architect, Humberto found many challenges in the design of intensive roof gardens due to the weight restrictions on structural roof tops. Soil profiles needed to meet certain weight targets and the traditional drainage layer of aggregate was simply too heavy. Humberto began designing a new solution that was structural and lightweight.



In 1986 the final design was ready and placed into production, the product was an injected moulded part made from recycled polypropylene. It was a 40mm thick offset chessboard pattern design which was named Drainage Cell. Today the 30mm drainage cell has become an industry standard. This product commenced the journey of the Atlantis brand into the market place. Many more inventions by the Atlantis team have since grown our product range and our team is dedicated to continuous innovation.

Mission Statement

Atlantis is dedicated to manufacture products to enhance the environment and provide solutions that are sustainable. Our vision is to manufacture quality products to build green cities, sustainable developments that mimic the natural environmental cycles of air, water and climate.

We believe in making a difference. The coexistence between nature and humanity is the key to sustainability. Atlantis stands for quality, innovation, and delivering solutions that work.

Manufacturing, Environment & Sustainability.

Atlantis products are manufactured in facilities located in Australia, Asia, USA, Europe and South America. High quality resins are sourced from accredited recycled material suppliers providing Atlantis with certified recycled polypropylene that is free from chemical contaminants.

The factories producing Atlantis products are committed to processes that have a minimal impact on the environment and are compliant with quality certification ISO 9001:2008.

NEW Atlantis Service

Environmental Design Construct

Atlantis Aurora is our new division which provides consultancy, design, supply and installation of specialised applications.

Green Roofs

- Intensive Green Roofs
- Extensive Green Roofs
- Green Roof Water Storage • Stormwater Attenuation

Vertical Gardens

- Wall Mounted Installations • Self Supported Installations • Green Facades
- Indoor Installations
- Soil Mixes
- Plant Selection
- Reticulation Systems

Drainage

- Road Drainage
- Sportsfield Drainage • Leachate Collection • Flood Mitigation
- Car Parks
- Channel Design

ATLANTIS AURORA

**Project Management
Design Installation**

Water Management

- W.S.U.D, Water Sensitive Urban Design
- Flood Mitigation
- Wetland Alternatives

Underground Tanks

- O.S.D, Onsite Detention Tanks • Infiltration Tanks
- Stormwater Harvesting

Stormwater Solutions

- Sub Division Development • Car Parking Lots
- Channel Design

Underground Tanks

For underground Infiltration, Detention, Rainwater Harvesting & Channel applications...

The Atlantis Flo-Tank® system provides underground water storage of unlimited capacity and can be installed in various volumes, shapes and depths to meet specific project requirements.

The entire project location can be used as a catchment area including stormwater, landscape and roof areas providing the water storage capacity to meet your requirements.

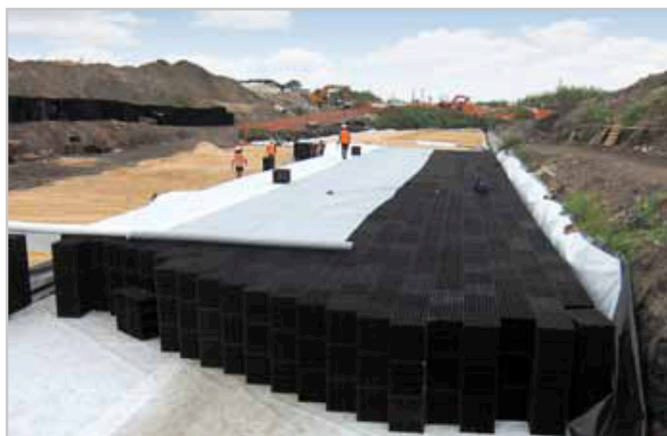
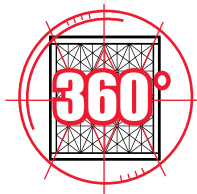
Suitable for both residential and commercial installation projects, the Flo-Tank® system maximizes land usage and minimizes stormwater runoff.

Atlantis Flo-Tank® system provides unlimited storage and flexible design to meet your water requirements.

Atlantis Flo-Tank® and Flo-Channel® are suitable for the following applications;

Applications

- Infiltration Tanks
- Stormwater Harvesting • Re-Use Tanks
- Detention Tanks (Attenuation) • Channels
- Soak Wells
- Leach Drains
- Drainage Channels



Benefits

Quick Installation

- Reduce site access delays.

Lightweight

- No cranes or lifting equipment required.

Modular

- Easily create any shape and size to suit site requirements.

Maintenance Free Tank

- All debris and sediment is removed by pre-filtration.

Determinate Volume

- One cubic metre of Flo-Tank® Modules contain 950 litres of water.

Cost Effective

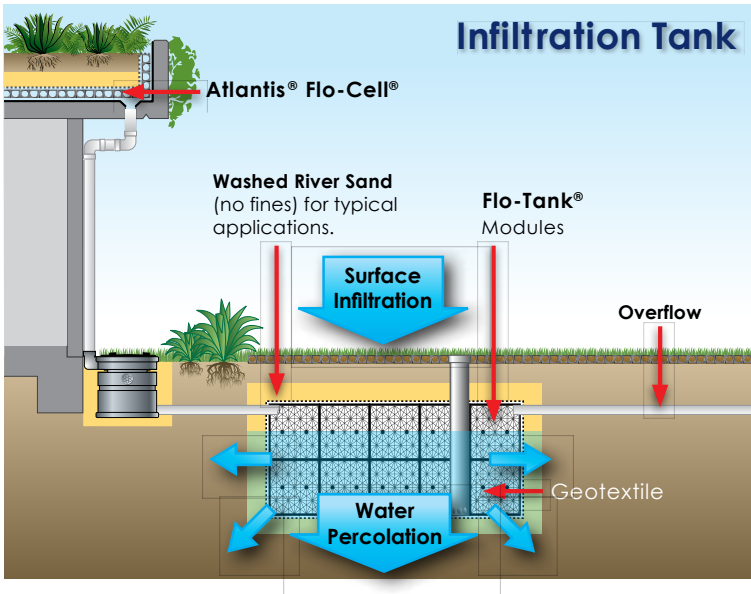
- Reduces excavation and disposal by two thirds compared with conventional soak wells.
- Cost effective compared to concrete and other systems

High Infiltration

- 95% void surface area

Easily Transportable

- Can be supplied unassembled for delivery to remote areas.



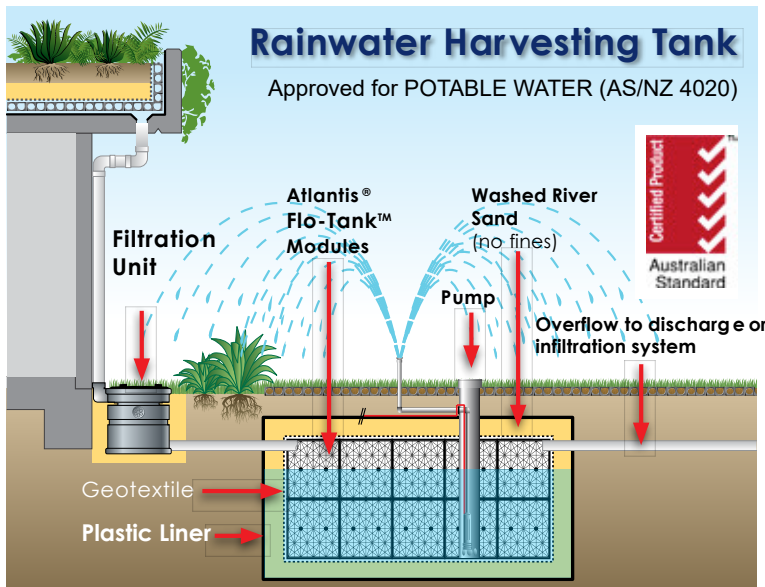
Infiltration Tank

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-Tank™ Modules**).

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



Rainwater Harvesting Tank

Approved for POTABLE WATER (AS/NZ 4020)

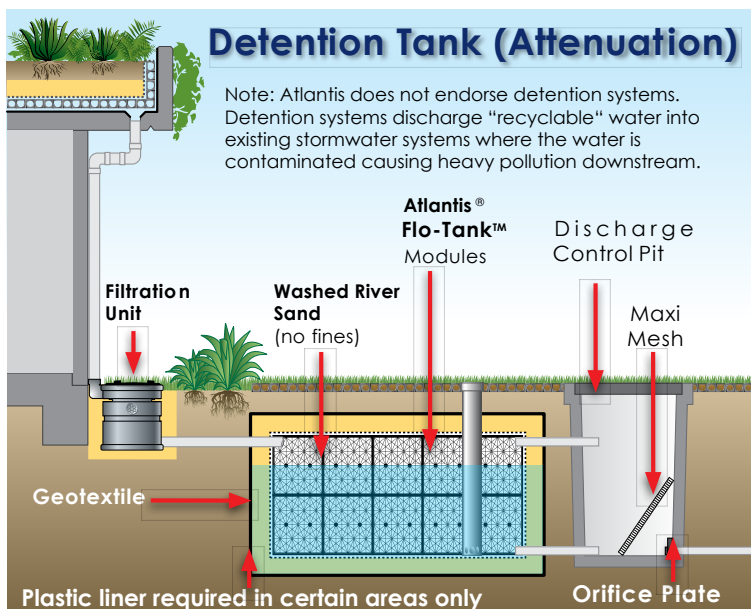
RainWater HARVESTInG (Re-Use Tank)

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)

Note: Atlantis does not endorse detention systems. Detention systems discharge "recyclable" water into existing stormwater systems where the water is contaminated causing heavy pollution downstream.

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-Tank™ Tank Modules**). Water is then slowly released through the discharge control unit (DCU).

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

Vertical Gardens

Vertical Gardens Made Easy!

Atlantis vertical garden systems facilitates installation of vertical gardens in adverse outdoor environmental conditions and in regulated indoor environments with complete access and control.

Our vertical gardens systems provide targeted watering control of individual plants, maximum water efficiency, last minute design changes and easy access to irrigation components.

Benefits

- Rapid Construction
- Quick Plant Installation
- Vertical & Horizontal Expansion •
- Easy Creative Planting Design
- Self Supporting Structure
- No Framework Required
- Structurally Strong
- Modular Planting System
- Optimum Moisture Retention for Plants
- Easy Individual Plant Access & Maintenance •
- Excess Water Capture System Available



Gro-Wall® 4 installed onto coffee shop frontage in Kuala Lumpur, Malaysia.

Why Use Gro-Wall®



Water Efficient
Gro-Wall® is highly water efficient. The system can be tailored to water plants without excess runoff.



Earn LEED Points
Use Gro-Wall® to earn up to 23 valuable LEED points on your project.



IPI™ System
Gro-Wall® features individual plant Irrigation system.



Thermal Insulator
Gro-Wall® performs as a thermal insulator for buildings, cooling in summer and retaining heat in winter.



Recycled Materials
Gro-Wall® is made from high quality recycled materials.



IFS™ System
Integrated frame work system. Gro-Wall® is fixed directly onto the wall. No additional framework is required.



Energy Savings
Save energy costs associated with running costly air conditioning.



Green Building
The Gro-Wall® system is ideal for improving the GREEN ratings of building design and long term sustainability.



Complete Access
Gro-Wall® allows complete & easy access to individual plants and irrigation components.



Sound Insulation
The Gro-Wall® 4 design is a highly effective sound insulator holding up to 140L of soil media per square metre.



Modular System
Gro-Wall® is a modular system allowing easy vertical and horizontal expansion.



Versatile Planting
Gro-Wall® 4 can accommodate a large variety of plant species including grasses, Sedums, Succulents.

Gro-Wall® 4

Gro-Wall® features Gro-Pot™ planter trays that can accommodate single or multiple plants including small plants and grasses. Each Gro-Pot™ tray has built in drainage and a small water reservoir. The Gro-Pot™ can hold up to 6.5L of soil media and is compatible with all versions of Gro-Wall® including the PRO version.



Gro-Wall® PRO

Gro-Wall® PRO is a versatile living wall system designed to construct robust living walls such as double sided landscaped walls, cascading living walls and living walls requiring intensive soil depth.



Gro-Wall® PRO features channel conduits for steel reinforcement and the housing of irrigation systems. The channels can be used for multiple drip line or drip head irrigation systems for intensive watering applications. Gro-Wall® PRO also features a rigid wall mount clip for fixing to wall surface.

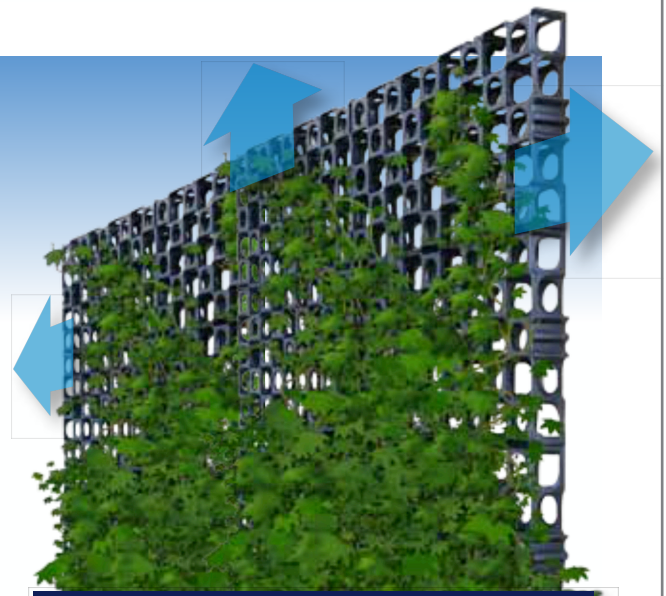


Installation of 148m² of Green Wall. The project utilises 1040 Gro-Wall® modules and 3120 plants.

Gro-Wall® façade

The Gro-Wall® Façade system facilitates easy installation and integration with existing buildings and new architectural designs.

The strong design and ease of installation makes Gro-Wall® Façade an ideal choice for architects, landscape designers and landscape contractors.



Expandable in all directions

Turf & Gravel Reinforcement

Atlantis Turf Cell® is an ideal product to reinforce grass in trafficable areas. Designed to house and protect grass, Turf Cell® enables rigorous horizontal and vertical root growth.

The strong design ensures long time durability and with an installed load capacity of 4000t/m² meets the majority of traffic requirements.



Horizontal & Vertical Root Growth

The Turf Cell® is also a great solution for increasing permeable surfaces around buildings, adding green space and lowering the Heat Island effect.

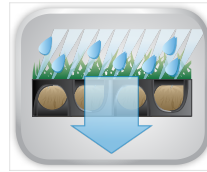
The Turf Cell® structure promotes root growth by maintaining regular surface temperature unlike concrete pavers that absorb and retain heat which scorch the grass roots.

Aesthetically the product allows the grass to fill in completely, creating a lush lawn with an invisible reinforcement structure.

Applications

- Access Roads •
- Driveways •
- Residential Parking •
- Pathways •
- Golf Buggy Trails •
- Emergency Vehicle Access •
- Aircraft Taxiways •
- Helicopter Landing Pads •

Turf Cell® at a glance.



Permeable Surface

Permits surface water absorption and filtration.



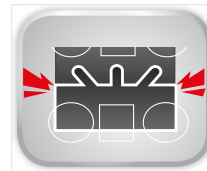
Surface Temperature

Increased vegetation reduces ambient temperature around buildings.



High Water Quality

Turf Cell® installations function as water filters. Turf Cell® is ideal for releasing clean water into the environment.



Rigid Clipping System

Unique easy to use interlocking system.



Cost Efficient

Turf Cell® installations are significantly more cost efficient than concrete or bitumen alternatives.



Made From Recycled Materials

Gravel Cell® is made from high grade recycled materials.

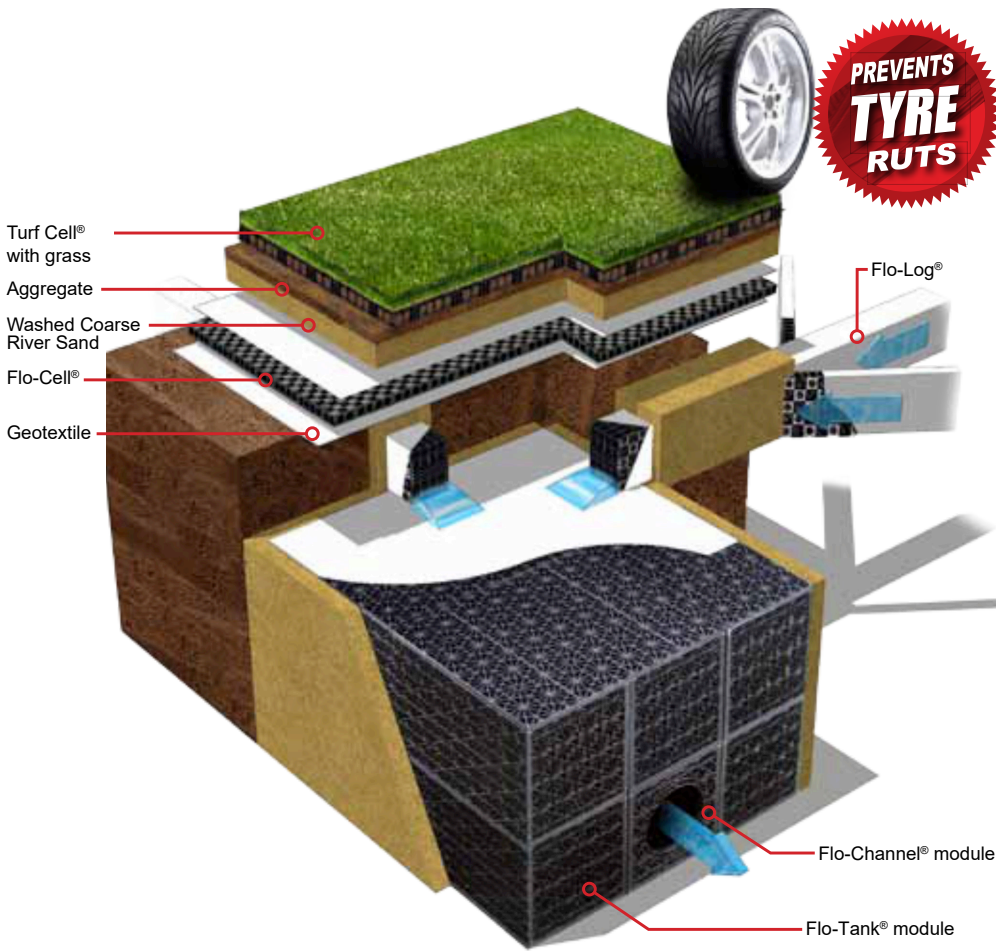


High Load Bearing

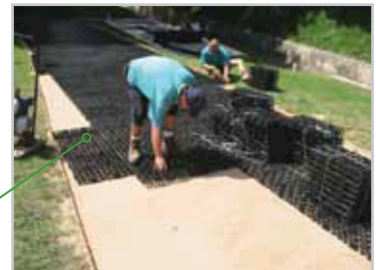
The installed Turf Cell® can hold weight over 3800 t/m²



**PREVENTS
TYRE
RUTS**

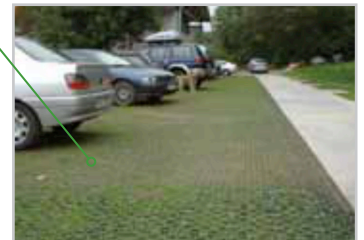


Adding **Flo-Cell®** and **Flo-Log®** ensures a regular free draining surface that can be utilised during the heaviest rainfall events.



Gravel Cell®

Turf Cell®



Landscape Drainage

HIGH STRENGTH, HIGH FLOW DRAINAGE

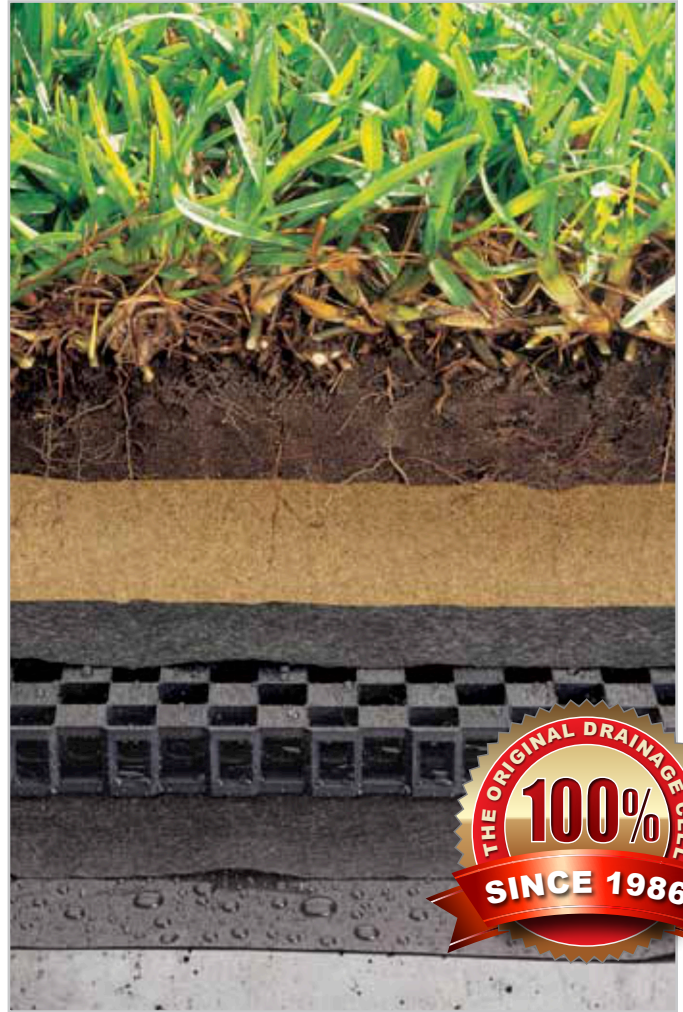
Since the original release in 1986, Atlantis® Drainage Cell set a benchmark for sub surface water management. Atlantis® Drainage Cell is the most advanced underground geo-composite and offers high compressive strength, lightweight construction, ease of installation and low cost compared to traditional methods.

Efficient Water Management

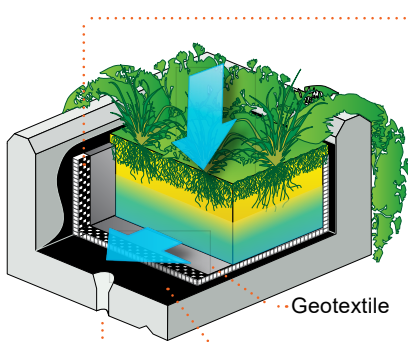
The Atlantis® Drainage Cell removes only excess water, keeping a perfect amount of moisture on perch. The unique design of the Atlantis® Drainage Cell also features water retention cups that provide optimal moisture conditions for growing media.

Long Life Durability

Atlantis® Drainage Cell has excellent long term durability and is resistant to all ground chemicals. Atlantis® Drainage Cell is manufactured from selected quality recycled materials and under stringent quality control ensuring a high quality product that will not collapse or distort if used correctly.



Planter Box Installation



Atlantis® Drainage Cell only removes excess water, while retaining water in unique storage cups.

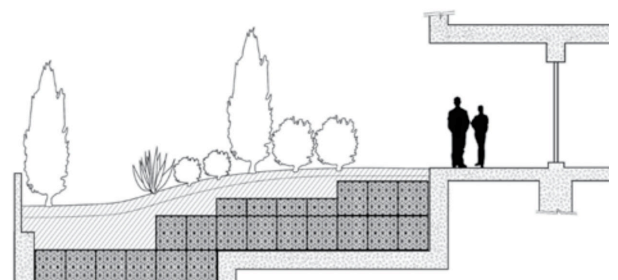


Protects Building Structures

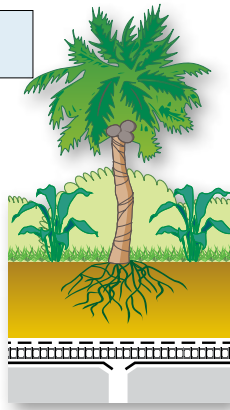
The Atlantis® Drainage Cell, used in conjunction with Atlantis® Geotextile, functions as a protective membrane for waterproofing and providing ventilation for concrete slabs which alleviates heat induced stress and cracking.

Lightweight Structural Void Fill

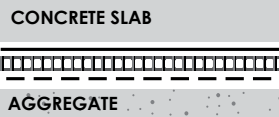
Ideal for creating landscape mounds, structural fill for planter boxes, podiums and roof to gardens,



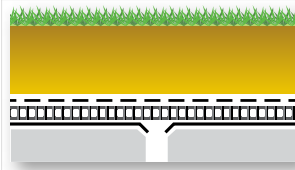
Podium Landscaping



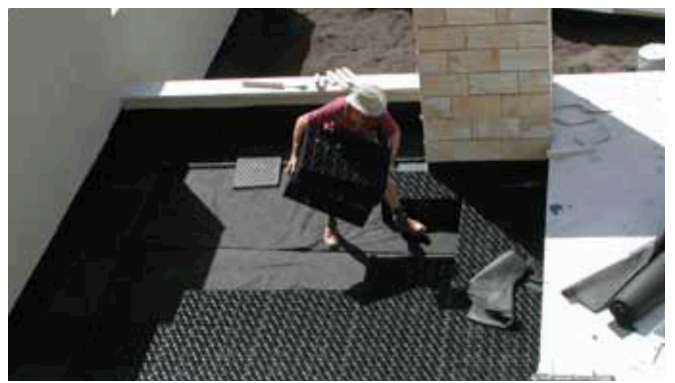
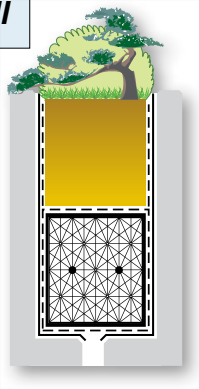
Drainage Under Concrete Slab



Roof Garden / Green Roof



Lightweight Structural Void Fill



Installing Flo-Tank® modules into planter box.

Wall Drainage

Flo-Wall® wall drainage panels

HIGH STRENGTH, HIGH FLOW WALL DRAINAGE

RAPID DRAINAGE

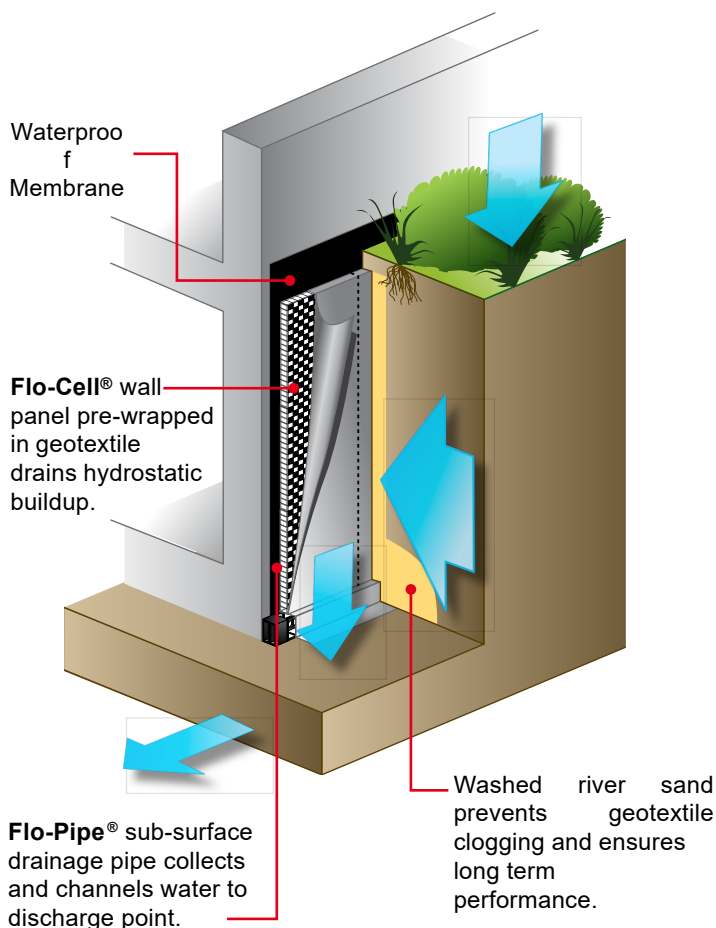
The Atlantis Flo-Wall® range is ideal for the rapid drainage of saturated ground. The Flo-Wall® range is suited for applications including underground car parks, basements, retaining walls and seepage cutoff trenches.

HIGH STRENGTH

The Atlantis Flo-Wall® range features high compressive strength that will not crush over time ensuring long term drainage performance.

HYDROPHILIC GEOTEXTILE

The Flo-Wall® range are prefabricated products wrapped with a high quality Italian made geotextile with hydrophilic properties for effective drainage that does not require head of pressure to perform.



LONG TERM
**STRUCTURAL
& DRAINAGE**
PERFORMANCE

UNLIMITED LENGTH

The Atlantis Flo-Wall® range can be easily connected together to form the lengths required for the project. Each Flo-Wall® is provided with an overlap allowance of geotextile to allow each connection to be appropriately sealed with tape.



MULTIPLE APPLICATIONS

The Flo-Wall® range is suitable for retaining walls, foundation walls, basements, underground car parks, bridge abutments, civil structures, tunnels and anywhere hydrostatic pressure relief is required.



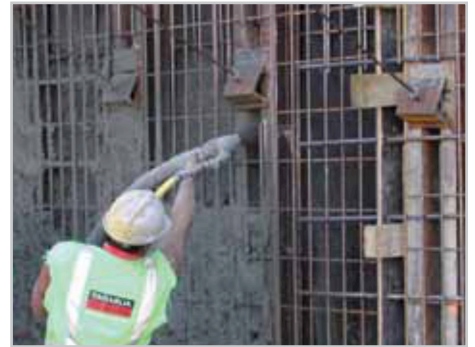
“Save time & labour while getting the job done right the first time”



The product is ideal for shotcreting saving time and labour costs through rapid installation and thereby reducing labour requirements.



Steel reinforcement is placed over Atlantis Wall Panels.



Tradesman applying shotcrete over steel reinforcement and Atlantis Wall Panels.

Trench Drainage

Flo-Log® trench & strip drainage

PRE FABRICATED HIGH STRENGTH, HIGH FLOW STRIP DRAINAGE

RAPID DRAINAGE

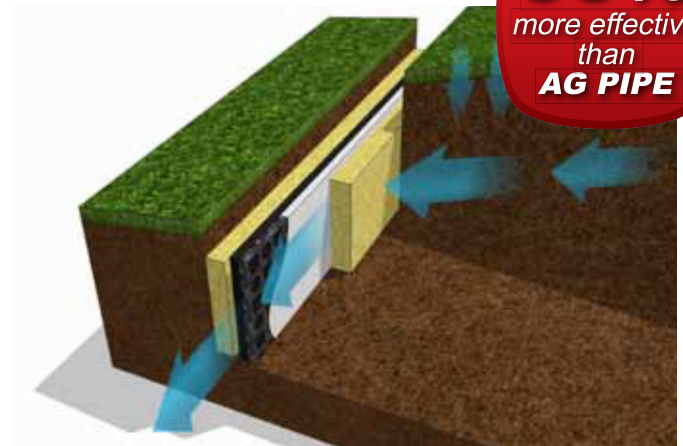
The Atlantis Flo-Log® range is ideal for the rapid drainage of saturated ground. The Flo-Log® range is suited for applications requiring strip or trench drainage.

HIGH STRENGTH

The Atlantis Flo-Log® range features high compressive strength that will not crush over time ensuring long term drainage performance.

HYDROPHILIC GEOTEXTILE

The Flo-Log® range are prefabricated products wrapped with a high quality Italian made geotextile with hydrophilic properties for effective drainage that does not require head of pressure to perform.

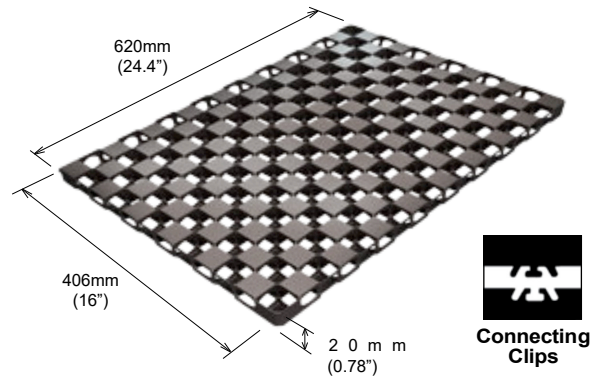


UNLIMITED LENGTH

The Atlantis Flo-Log® range can be easily connected together to form the lengths required for the project. Each Flo-Log® is provided with an overlap of geotextile to allow each connection to be appropriately sealed with tape.

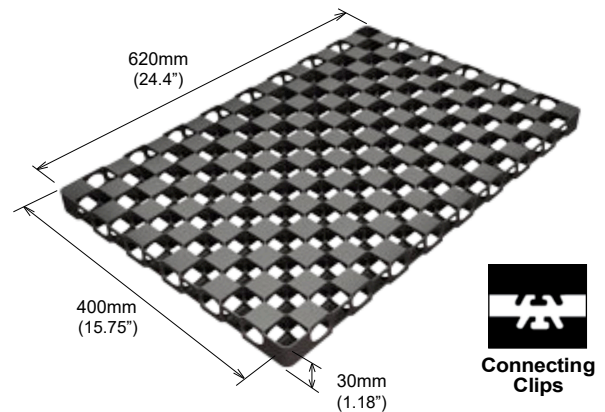
20mm Flo-Cell® Drainage Cell (W-Clip)

Part Number	820-WBH00-A
Material	85% Recycled PP, 15% Proprietary Materials
Width	400mm (15.75")
Height	20mm (0.79")
Length	620mm (24.41")
Part Weight	550 grams (19.4 oz.)
Weight m² ft²	2.19 kg/m ² (0.45 lb/10.76 ft ²)
Flow Rate	4.44 L/s/m (21.48 Gal/min/ft) @ 0.5% gradient
Pieces per m² / (ft²)	4 / (16.76)
Compressive Strength	90 t/m ² (128 psi)



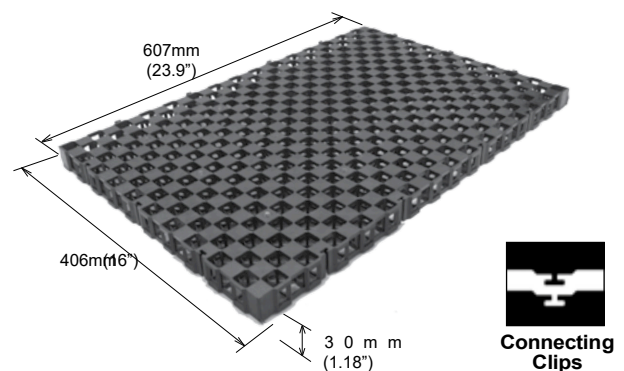
30mm Flo-Cell® Drainage Cell (W-Clip)

Part Number	830-WBH00C
Material	85% Recycled PP, 15% Proprietary Materials
Width	400mm (15.75")
Height	30mm (1.18")
Length	620mm (24.41")
Part Weight	670 grams (23.6 oz.)
Weight m² ft²	2.66 kg / m ² (0.54 lb/ ft ²)
Flow Rate	7.4 L/s/m (35.8 Gal/min/ft) @ 0.5% gradient
Pieces per m² / (ft²)	4 / (16.76)
Compressive Strength	98.6 t/m ² (140.3 psi)



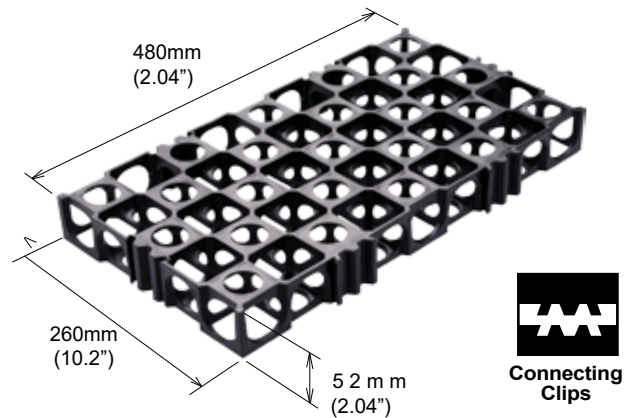
30mm Atlantis Drainage Cell (T-Clip) The Original Since 1986

Part Number	830-TSH00B
Material	85% Recycled PP, 15% Proprietary Materials
Size	(T)30 x (W)406 x (H)605
Width	406mm (16")
Height	30mm (1.18")
Length	607mm (23.9")
Part Weight	710 grams (25 oz.)
Weight m² ft²	2.89 kg/ m ² (6.37 lb/10.76 ft ²)
Flow Rate	7.4 L/s/m (35.8 Gal/min/ft) @ 0.5% gradient
Pieces per m² / (ft²)	4 / (16.76)
Compressive Strength	76 t/m ² (108 psi)



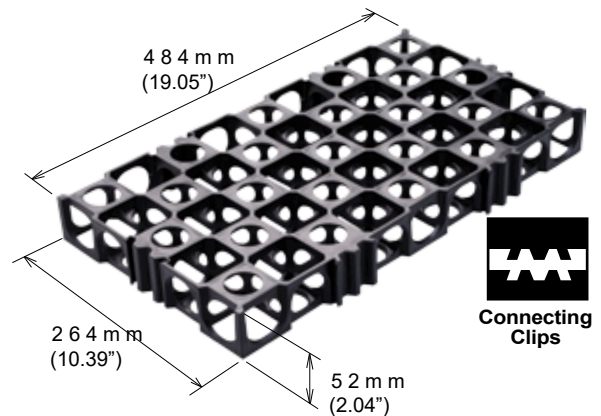
Flo-Cell® 52mm (2.04")

Part Number	852-WMD00A
Material	85% Recycled PP, 15% Proprietary Materials
Width	260mm (10.2")
Height	52mm (2.04")
Length	480mm (18.9")
Part Weight	680 grams (24 oz.)
Weight m² ft²	5.44 kg/m ² (12 lb/10.76 ft ²)
Flow Rate	17.1 L/s/m (82.6 Gal/min/ft) @ 0.5% gradient
Pieces per m² (10.76ft²)	8
Compressive Strength	130.6 t/m ² (185.8 psi)



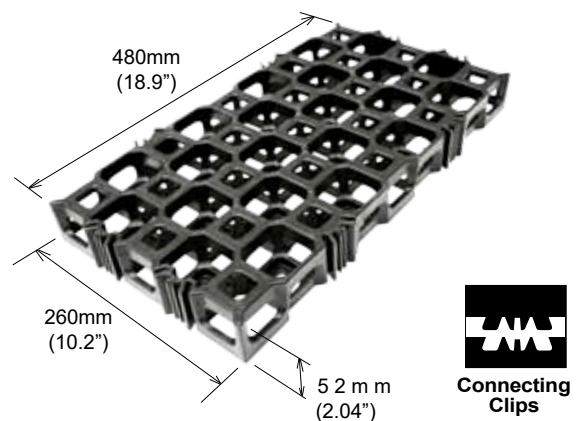
Flo-Cell® 52mm (2.04") W-Clip Facade

Part Number	852-WMD00B
Material	85% Recycled PP, 15% Proprietary Materials
Width	264mm (10.39")
Height	52mm (2.04")
Length	484mm (19.05")
Part Weight	625 grams (22 oz.)
Weight m² ft²	5 kg/m ² (11 lb/10.76 ft ²)
Flow Rate	17.1 L/s/m (82.6 Gal/min/ft) @ 0.5% gradient
Pieces per m² (10.76ft²)	8
Compressive Strength	130.6 t/m ² (185.8 psi)



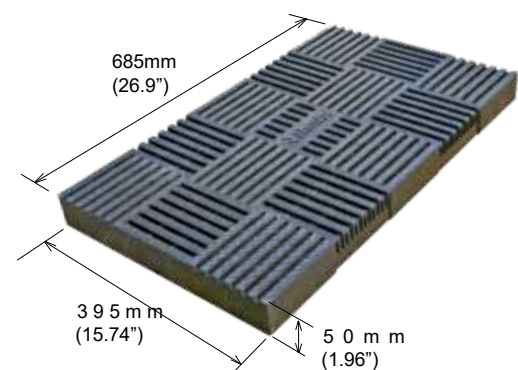
Road Cell®

Part Number	852-WHD00F
Material	85% Recycled PP, 15% Proprietary Materials
Width	260mm (10.2")
Height	52mm (2.04")
Length	480mm (18.9")
Part Weight	1.140 kg/ (40.2 oz)
Weight m² ft²	9.12 kg/m ² (20.12 lb/10.76 ft ²)
Flow Rate	17.1 L/s/m (82.6 Gal/min/ft) @ 0.5% gradient
Pieces per m² (10.76ft²)	8
Compressive Strength	255.2 t/m ² (363.1 psi)



Flo-Grid® Porous Paver

Part Number	80008
Material	85% Recycled PP, 15% Proprietary Materials
Width	400mm (15.7")
Height	50mm (1.96")
Length	685mm (26.9")
Part Weight	2.42 kg/ (85.4 oz)
Weight m² ft²	8.85 kg/m ² (19.51 lb/10.76 ft ²)
Pieces per m² (10.76ft²)	3.65
Compressive Strength	247 t/m ² (351.4 psi)



ATLANTIS FLO-TANK MODULE SPECIFICATIONS

	MINI	SINGLE	DOUBLE	TRIPLE	QUAD	PENTA	Common Measurements
Height in mm	240 (9.45")	450 (17.72")	880 (34.65")	1310 (51.57")	1740 (68.5")	2170 (85.43")	Length: 685 mm (26.77")
Water Storage in L	64.58	119.47	233.64	347.80	461.93	576.10	Width: 408 mm (16.06")
Water Storage in Gal	17.06	31.56	61.72	91.88	122.03	152.19	Module Footprint: 0.2795 m ²
							Module Footprint: 3 ft ²

ATLANTIS FLO-TANK® TOP COVER & BACK FILL RECOMMENDED REQUIREMENTS

	Pedestrian Traffic	Vehicle Traffic
Base Fill	100mm (4")	100mm (4")
Backfill Height*	300 - 500mm (12" - 20")	600 - 1600mm (24" - 63")
Side Backfill**	200 - 500mm (10" - 20")	200 - 500mm (10" - 20")

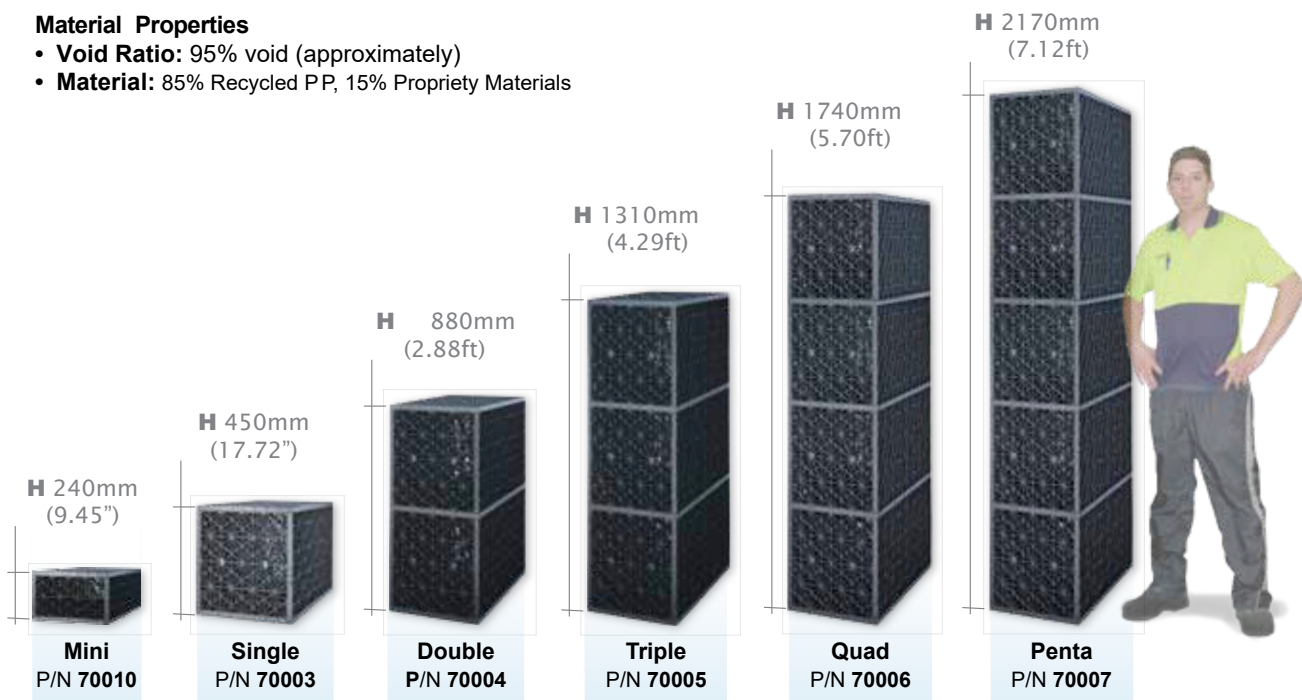
SIDE BACK FILL**

For installations that have limited footprint available, 100mm (4") can be applied if approved by specifying engineer. For installations into reactive soils or clay a minimum of 500mm (20") side backfill is required.

MAXIMUM BACK FILL: The maximum backfill allowed is 1600mm (5.3 ft). For further information please contact our technical department.

Material Properties

- **Void Ratio:** 95% void (approximately)
- **Material:** 85% Recycled PP, 15% Proprietary Materials



For further technical details, please contact our technical department: technical@atlantiscorp.com.au

Maximum Flow Rate @ 1% gradient 11.5 L/s (3.038 USGal/s)

Maximum Flow Rate @ 5% gradient 27.4 L/s (7.238 USGal/s)

Maximum Flow Rate @ 10% gradient 39 L/s (10.303 USGal/s)

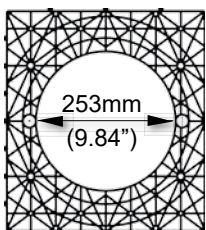
ATLANTIS FLO-CHANNEL TANK MODULE SPECIFICATIONS

	MINI	SINGLE	DOUBLE	TRIPLE	QUAD	PENTA	Common Measurements
Height in mm	240 (9.45")	450 (17.72")	880 (34.65")	1310 (51.57")	1740 (68.5")	2170 (85.43")	Length: 685 mm (26.77")
Water Storage in L	64.58	119.47	233.64	347.80	461.93	576.10	Width: 408 mm (16.06")
Water Storage in Gal	17.06	31.56	61.72	91.88	122.03	152.19	Module Footprint: 0.2795 m ²
							Module Footprint: 3 ft ²

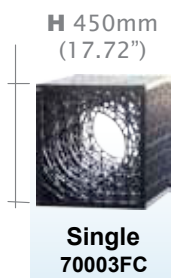
For excavation and backfill requirements see Flo-Tank Module Specs

Material Properties

- **Void Ratio:** 95% void (approximately)
- **Material:** 85% Recycled PP, 15% Propriety Materials



The module opening has a diameter of 253mm (9.84")



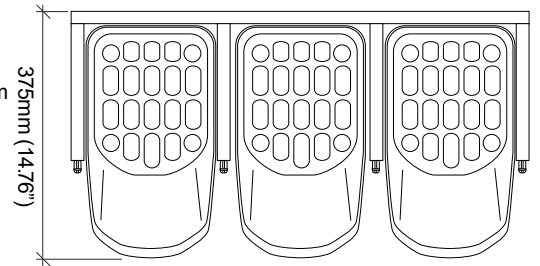
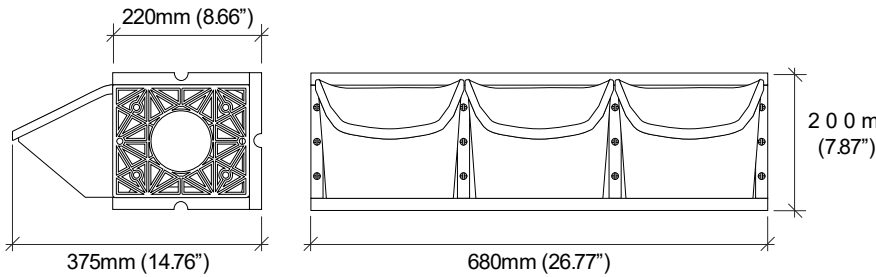
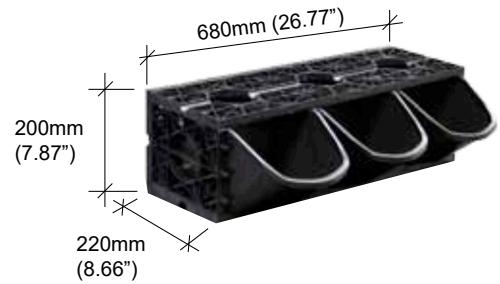
For further technical details, please contact our technical department: technical@atlantiscorp.com.au

- Maximum Flow Rate @ 1% gradient **28.5 L/s** (7.5 USGal/s)
- Maximum Flow Rate @ 5% gradient **89.7 L/s** (23.7 USGal/s)
- Maximum Flow Rate @ 10% gradient **148 L/s** (39 USGal/s)

Common Properties	
Biological Resistance:	Not affected by biological activity
Chemical Resistance:	Excellent resistance to, Acids, Alcohols, Bases and Mineral Oils. Good resistance to Aliphatic Hydrocarbons, Ketones and Vegetable Oils.
Recommended Service Temperature:	-10°C to 70°C (14 °F to 158 °F)

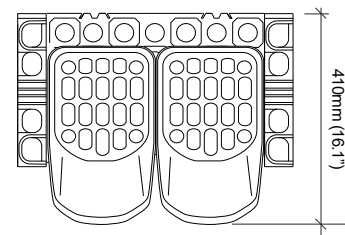
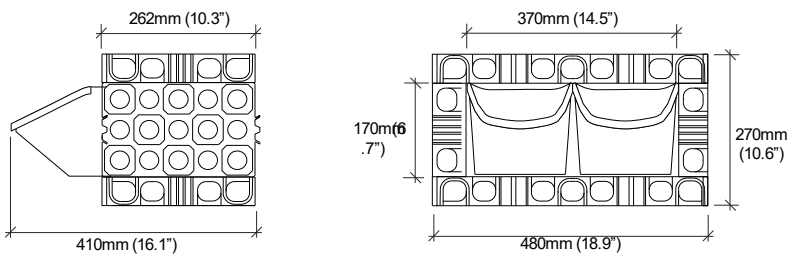
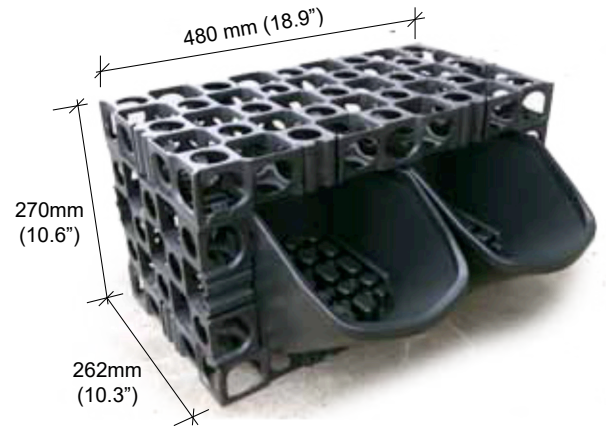
Gro-Wall® 4 Specifications

Part Number	80040
Material	85% Recycled PP, 15% Propriety Materials
Colour	Black
Weight (Module Only)	2.04kg (4 lbs 8oz)
Overall Weight (Module & Gro-Pot™)	3.21kg (7 lbs 1.2oz)
Width	680mm (26.77")
Height	200mm (7.87")
Depth (Module Only)	220mm (8.66")
Overall Depth (Including Gro-Pot™)	375mm (14.76")
Maximum Loading	50kg (110 lbs 3.7oz) per module
Biological Resistance	Not affected by biological activity.
Recommended Service Temperature	-10°C to 70°C (14 °F to 158 °F)



Gro-Wall® PRO Specifications (1 module)

Part Number	
Material	85% Recycled PP, 15% Propriety Materials
Colour	Black
Weight (Module Only)	1.820 kg (4.01 lbs)
Overall Weight (Empty Module & Gro-Pot™)	2.215 kg (4.88 lbs)
Width	480mm (18.9")
Height	270mm (10.6")
Depth (Module Only)	260mm (10.23")
Overall Depth (Including Gro-Pot™)	410 mm (16.1")
Biological Resistance	Not affected by biological activity.
Recommended Service Temperature	-10° C to 70° C (14° F to 158° F)

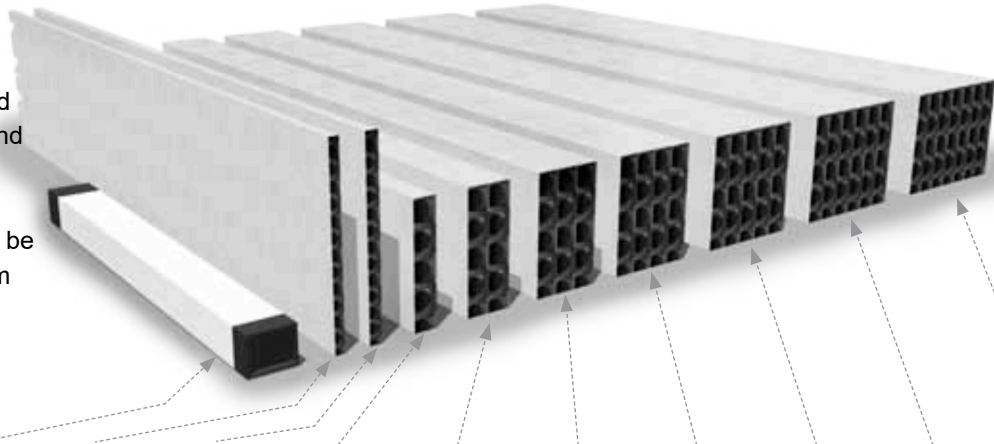


Flo-Log® Sub Surface Drainage Specifications

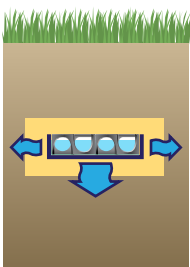
**Custom sizes available*

Standard Size Drainage Logs.

The logs are wrapped in quality geo-textile and are available in various sizes. The logs are two metres in length and can be connected together to form any length.

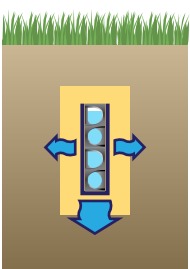


Part Number	30014	80020	80030	10519	10520	10521	10522	10523	10524	10525
Width	100 mm	20 mm	30 mm	52 mm	104 mm	156 mm	208 mm	260 mm	312 mm	364 mm
Height	80 mm	408 mm	408 mm	260 mm	260 mm	260 mm	260 mm	260 mm	260 mm	260 mm
Length	1080 mm	1920 mm	1920 mm	1920 mm	1920 mm	1920 mm	1920 mm	1920 mm	1920 mm	1920 mm
Horizontal Flow Rate@ 0.5% gradient (Approximate Weight)	80 L/m	106 L/m	178 L/m	267 L/m	427 L/m	640 L/m	854 L/m	934 L/m	1120 L/m	1307 L/m
Geotextile	Hydrophillic Non Woven Geotextile (As per Atlantis Specifications)									
Void Ratio	90% void									
Material	85% Recycled PP, 15% Propriety Materials									
Biological Resistance	Not affected by biological activity									
Chemical Resistance	Excellent resistance to Urine, Acids, Alcohols, Bases and Mineral Oils. Good resistance to Aldehydes, Esters, Aliphatic Hydrocarbons, Ketones and Vegetable Oils.									
Service Temperature	-10°C to 70°C, (14° F to 158° F)									



Flo-Log® Horizontal Exfiltration Area (Linear Metre)

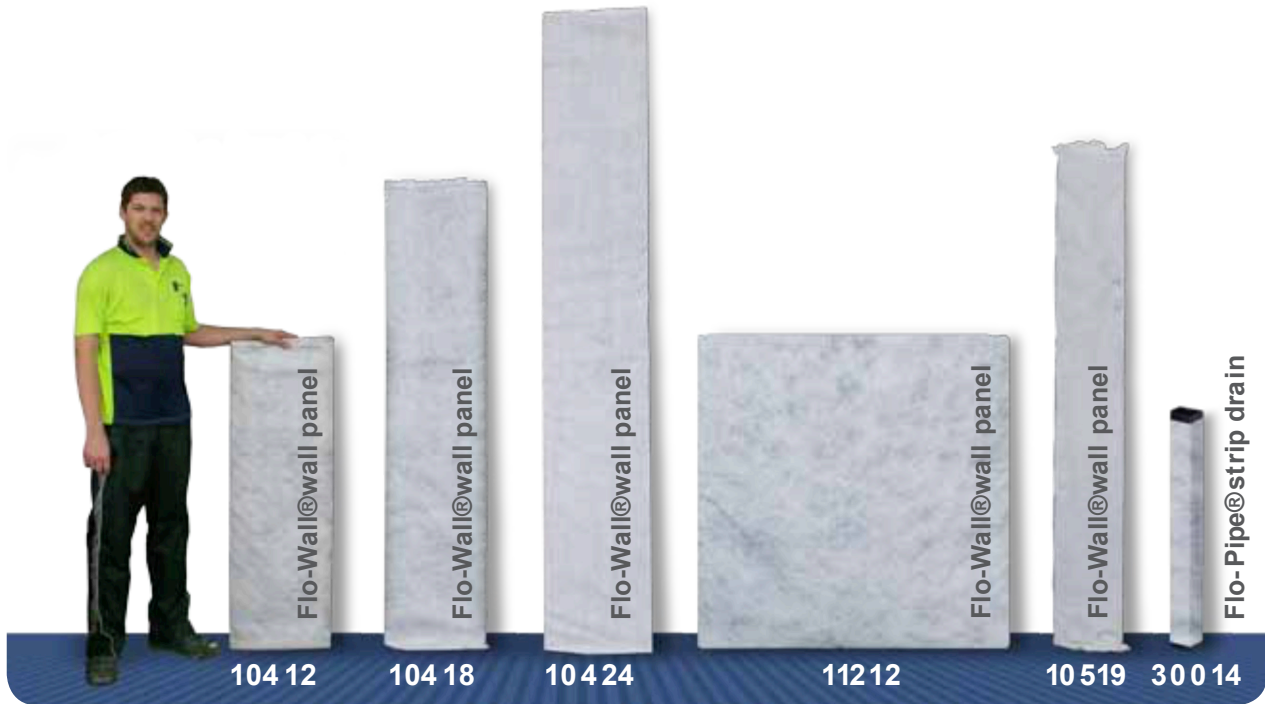
Part Number	30014	80020	80030	10519	10520	10521	10522	10523	10524	10525
Gross Exfiltration Area	0.26 m ²	0.45 m ²	0.47 m ²	0.63 m ²	0.74 m ²	0.84 m ²	0.95 m ²	1.05 m ²	1.15 m ²	1.26 m ²
Net Exfiltration Area (90%)	0.23 m ²	0.40 m ²	0.42 m ²	0.57 m ²	0.67 m ²	0.76 m ²	0.85 m ²	0.94 m ²	1.03 m ²	1.13 m ²



Flo-Log® Vertical Exfiltration Area (Linear Metre)

Part Number	30014	80020	80030	10519	10520	10521	10522	10523	10524	10525
Gross Exfiltration Area	0.28 m ²	0.84 m ²	0.85 m ²	0.57 m ²	0.62 m ²	0.68 m ²	0.73 m ²	0.78 m ²	0.83 m ²	0.88 m ²
Net Exfiltration Area (90%)	0.25 m ²	0.76 m ²	0.77 m ²	0.51 m ²	0.56 m ²	0.61 m ²	0.66 m ²	0.70 m ²	0.75 m ²	0.79 m ²

Flo-Wall® Vertical Drainage Specifications



Part Number	10412	10418	10424	11212	10519	30014
Width	400 mm (15.7")	400 mm (15.7")	400 mm (15.7")	1200 mm (47.2")	260 mm (10.2")	100 mm (3.93")
Height	1200 mm (47.2")	1800 mm (70.8")	2400 mm (94.5")	1200 mm (47.2")	1920 mm (75.6")	1080 mm (42.52")
Thickness	30 mm (1.18")	30 mm (1.18")	30 mm (1.18")	30 mm (1.18")	52 mm (2.04")	80 mm (3.14")
Weight	1.49 kg (3.28 lbs)	2.24 kg (4.93 lbs)	2.98 kg (6.56 lbs)	4.47 kg (9.85 lbs)	2.60 kg (5.73 lbs)	0.62 kg (1.36 lbs)
Flow Rate @ 0.5% gradient (Approximate)	178 L/m	178 L/m	178 L/m	533 L/m	267 L/m	80 L/m
Geotextile	Hydrophillic Non Woven Geotextile (As per Atlantis Specifications)					
Core Material	85% Recycled PP, 15% Propriety Materials					
Void Ratio	90% void					
Biological Resistance	Not affected by biological activity					
Chemical Resistance	Excellent resistance to, Acids, Alcohols, Bases and Mineral Oils. Good resistance to Aliphatic Hydrocarbons, Ketones and Vegetable Oils.					
Service Temperature	-10°C to 70°C, (14° F to 158° F)					

