

ACO Environment

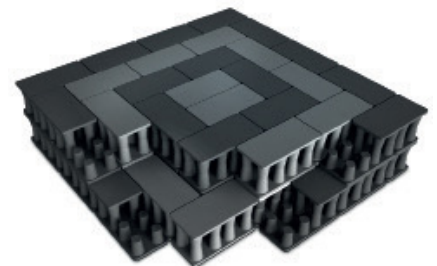
Stormbrixx®



## Stormwater Management

### Environmental friendly stormwater detention and infiltration system

Developed after three years of meticulous research and development, the ACO StormBrixx product range is an innovative product line which is the strongest and most easily installed injection molded, geocellular product on the global market.



ACO. creating  
the future of drainage







## ACO Stormbrixx®

ACO StormBrixx® is a unique and patented plastic geocellular stormwater management system designed for surface water infiltration and storage.

Its versatility allows it to be used in applications across all construction environments as a standalone solution or as part of a Water Sensitive Urban Design (WSUD) scheme

### What is ACO Stormbrixx® ?

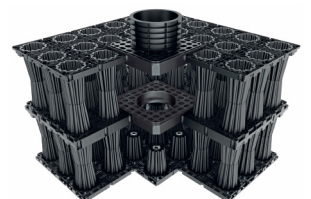
Sustainable surface water management is becoming an integral part of most major planning applications. Consideration should be given to the management of both quantity and quality of water discharged off-site, along with ongoing maintainability.

Plastic geocellular systems are a widely accepted method of creating retention, detention and infiltration tanks. They have been installed in a variety of applications for a number of years. A drawback of some types of systems is a lack of accessibility for maintenance.

ACO StormBrixx® addresses the ongoing maintenance requirements by providing 3D access for inspection and maintenance, while retaining the structural integrity of the installation.

#### Typical Applications

- Car parks
- Driveways
- Educational facilities
- Housing developments
- Landscaped areas







# Why choose ACO Stormbrixx® ?

## System Features

### Structural integrity

The ACO StormBrixx® system has been tested independently to certify structural integrity and long term life expectancy. The patented brickbonding and cross bonding feature provides a strong, long life installation and helps improve the construction speed of the tank.

### Access and maintenance

ACO StormBrixx® addresses the fundamental requirement of access and maintenance for local authorities. The open cell structure permits completely free access for CCTV and jetting equipment which allows the whole system, including all the extremities, to be inspected and maintained from a few access points.

### Simplified logistics

ACO StormBrixx® simplifies delivery, site logistics and installation as a result of its stackable design. Each single injection moulded body nestles, optimising logistical and installation cost significantly, thus helping to reduce the carbon footprint of the system.



Logistics

## askACO

For further information about the ACO StormBrixx® range please scan the QR Code.



Inspection cameras are introduced into the system through the access shaft





## Standard duty & heavy duty system



### ACO Stormbrixx SD

ACO StormBrixx SD was developed to provide a cost-effective, geocellular stormwater tank for applications where the tank will be subjected to up to and including AASHTO HS-20 loading standards. These applications account for the majority of installations where the tank can be placed under landscapes, pedestrian areas, and light-duty vehicular access.

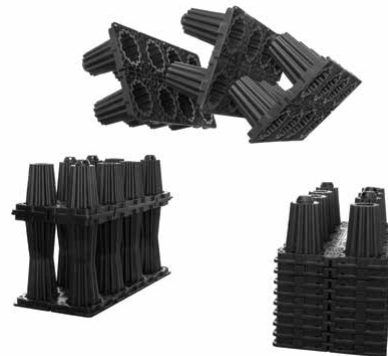


### ACO Stormbrixx HD

ACO StormBrixx HD was developed to provide a plastic geocellular product that can support heavy loads and heavy duty applications. StormBrixx HD addresses problems many other products encounter in these applications while ensuring a long life with no failures.

### System Benefits:

- Brick bonded and cross bonding connection for optimal stability
- Sediment bay and silt trap options for silt management
- Maintenance access and 3D inspection access to tank interior
- Environmentally efficient solution, minimising carbon emissions in manufacture, transportation and on-site assembly
- High void ratio minimises excavation volume
- Fully certified performance
- Manufactured from recyclable polypropylene
- Suitable for all industrial, commercial and residential applications







## References

### Northcross Firestation, Auckland, New Zealand

Owing to the intensive growth and development to Albany and Long Bay, the New North Cross Fire Station on East Coast Road was constructed to enable Fire and Emergency New Zealand to reach call outs to these areas in a prompt and efficient manner. Designers had to incorporate an underground detention tank to capture and detain surface water runoff from pavements and roof systems. The innovative retention system ACO STORMBRIXX® provided a cost-effective and at the same time environmental solution

#### ACO's solution:

- StormBrixx® SD geocellular stormwater management system
- ACO's Technical Services Department provided the designer with structural calculations, installation drawings and a bill of quantity



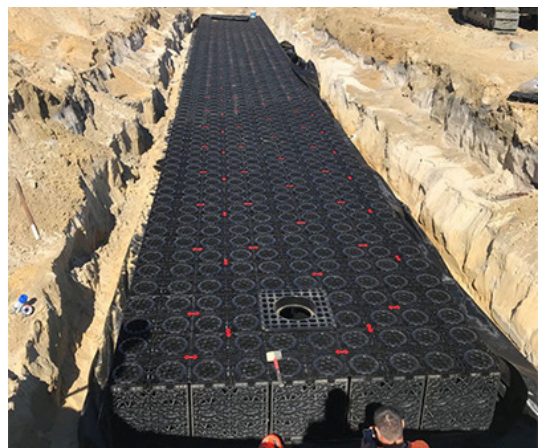
ACO Stormbrixx SD

### New Town Toyota, Victoria Park, Perth, Australia

During a recent extension of the dealership that included new showrooms, a new administration building and the upgrade of the parking area, designers were asked to design a new stormwater management system. A strong and durable underground stormwater tank was required to act as an infiltration system for gradual discharge into the water table. This measure would also stop stormwater from entering a problematic area of the site.

#### ACO's solution:

- ACO Stormbrixx® HD 50m<sup>3</sup> geocellular infiltration tank
- ACO's Technical Services team provided designers with sizing and structural calculations for vertical loading, lateral loading and creep ratiodrawings and a bill of quantity



ACO Stormbrixx HD



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