



ACO StormBrixx®

Geocellular Stormwater Storage Product Maintenance

Prevention
Inspection
Maintenance
Cleaning



ACO StormBrix® SD and HD

ACO StormBrix® is a unique and patented geocellular stormwater management system for detention and infiltration usage.

Its versatile design allows the system to be used in configurations and applications across all construction environments as a standalone solution or as part of an integrated LID (Low Impact Development) or BMP (Best Management Practices). Systems may or may not include pre-treatment to remove sediment and/or contaminants prior to entering the storage area. Those without pre-treatment require greater attention to system functionality and may require additional maintenance.

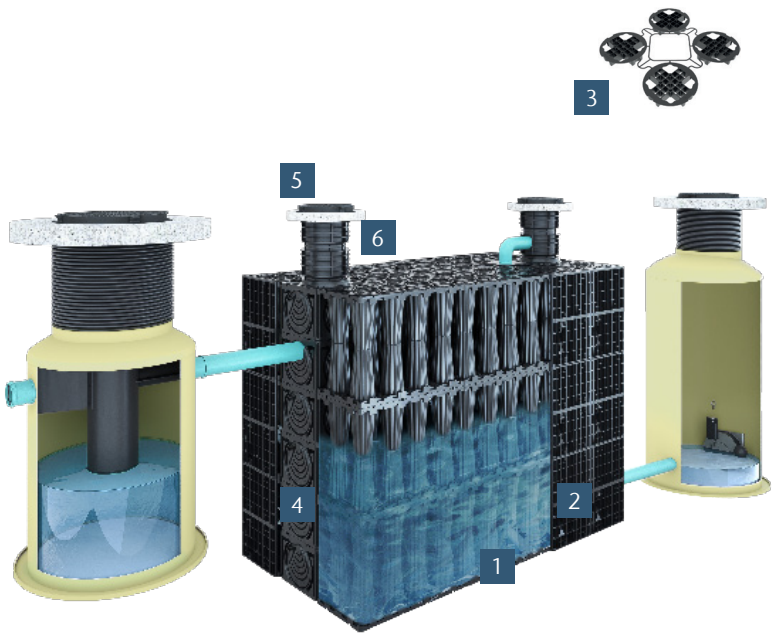
In order to sustain proper system functionality, ACO offers the following general maintenance guidelines for the StormBrix® product.



Contents

ACO StormBrix®	1
System Components	2
1. Prevention Measures	3
1.1 Prior to & During Construction	3
1.2 Post Construction	3
2. Inspections	4
2.1 Visual Inspection	4
2.2 Annual Inspection	4
2.3 Items To Inspect	4
2.4 Identify and Report	4
3. Maintenance Procedure	5
3.1 Surface Access	5
3.2 Safety	5
3.3 System Inspection	5
3.4 Standing Water	5
3.5 High Pressure	5
3.6 Water Level	6
3.7 Vacuum Hose	6
3.8 Repeat	6
3.9 Final Inspection	6
3.10 Remove Equipment	6
4. Cleaning Procedures	7
4.1 Frequency	7
4.2 Evaluation	7
4.3 Maintenance	7
7. askACO	8

System Components



- 1. StormBrixx Tank Bodies*
- 2. Side Panel*
- 3. Top Cover*
- 4. Remote Access Unit*
- 5. Remote Access Cover - Ductile Iron
- 6. Extension Shaft*

* Image shown represents a StormBrixx® SD system. The Remote Access Unit may be swapped out with the Remote Access Plate. ACO offers vented and non-vented Remote Access Covers.

1

Prevention Measures

1.1 PRIOR TO & DURING CONSTRUCTION

Siltation Prevention of the Stormwater System

Conform to all local, state, and federal regulations for sediment and erosion control during construction.

Install site erosion and sediment BMP's (Best Management Practices) required to prevent siltation of the stormwater system.

Inspect and maintain erosion and sediment BMP's during construction.

1.2 POST CONSTRUCTION

Prior to Commissioning the ACO StormBrix® System

Remove and properly dispose of construction erosion and sediment BMP's per all local, state, and federal regulations.

Care should be taken during removal of the BMP devices to prevent collected sediment or debris falling into the stormwater system.

Flush the ACO StormBrix® system to remove any sediment or construction debris immediately after the BMP's removal. Follow the maintenance procedure outlined.

The prevention measures we recommend will increase the efficiency of the installed tank and the life of the entire system.

StormBrix® is built to be used in areas in which protecting the environment is important. The prevention measures allow for the system as well as the locale it is installed to be sustainable.

StormBrix® provides top of the line stormwater management solutions for detention, retention, reuse, and infiltration systems. The long term environmental focuses of StormBrix® through LID, SuDS, MS4, and BMP will benefit the installer, the land owner, and the nearby environment.



Prevention measure

2

Inspections

Follow all local, state, and federal regulations regarding stormwater BMP inspection requirements. The results of the visual inspection, notes and repairs can be recorded in an operating logbook as a recommended best practice. These records will allow decisions to be made about the necessary frequency of future inspection and maintenance measures.

ACO makes the following recommendations:

2.1 VISUAL INSPECTION

Year One

During the first service year a visual inspection should be completed during and after each major rainfall event, in addition to every 6 month period to monitor and establish what sediment and debris buildup occurs.

Each ACO StormBrixx® system is unique to the application and multiple criteria can affect maintenance frequency as such:

- System Design: pre-treatment/no-treatment, inlet protection, stand-alone device.
- Surface area collecting from: hardscape, gravel, soil, or any other surface.
- Adjacent Area: soil runoff, gravel, trash.

2.2 ANNUAL INSPECTION

Year Two

Establish an annual inspection frequency based on the information collected during the first year. At a minimum an inspection should be performed at 6 month intervals.

2.3 ITEMS TO INSPECT

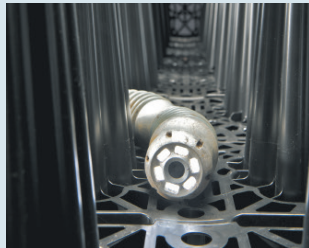
Components

- ACO StormBrixx® Remote Access Units/ Plates and inspection ports.
- Inlet and Outlet points.
- Discharge area.

2.4 IDENTIFY AND REPORT

Maintenance required if:

- Sediment and debris accumulation 6" or more.
- System backing up.
- Make operating logbook notes if needed.



Inspection camera

3

Maintenance Procedure**3.1 SURFACE ACCESS****Regulations**

Conform to all local, state, and federal regulations.

Access Cover

Locate access cover(s) at the surface connected to the tank.

3.2 SAFETY**Access Cover**

Once located, safely open lid and remove.

3.3 SYSTEM INSPECTION**System Debris**

Perform an inspection of the tank to locate any debris. This can be done visually, with or without an inspection camera.

3.4 STANDING WATER**Remove Water**

If the tank has standing water in it, you will need to vacuum the water first before visually inspecting the tank.

3.5 HIGH PRESSURE**System Clearing**

Use the high pressure jet nozzle/wand to loosen and suspend any solid debris that has built up.

Access to high pressure water and vacuum will be needed to clear the tank of any built up debris.

A minimum water pressure of 2,500 PSI is recommended. The maximum pressure depends on the geotextile fabric chosen. Please check with fabric manufacturer for max PSI.

To ensure correct insertion angle of the high pressure jet nozzle, we recommend using a pipe elbow.

Alternatively, a nearby fire hydrant can be used to suspend debris within the StormBrixx® system before vacuuming up the water.



Vacuum removal of debris



Wand used to loosen debris

3

Maintenance Procedure**3.6 WATER LEVEL****Optimal Water Depth**

Once the water level has reached 12" or more, shut off and remove high pressure jet nozzle/wand.

3.7 VACUUM HOSE**Remote Access Unit/Plate**

Insert vacuum hose via the remote access unit/plate and begin removing all debris that is now suspended in water. Do this until all water has been removed.

3.8 REPEAT**Water and Debris**

Not all water and debris may be removed in the first round, you may need to add and remove more water.

3.9 FINAL INSPECTION**Cleared Tank**

Once all debris has been removed, inspect tank again to make sure everything has been cleared.

3.10 REMOVE EQUIPMENT**Replace Cover**

Once the tank is clear of debris and water, remove all equipment and place the cover back on the tank. Secure cover accordingly.



Final inspection



Camera view of clean tank

For further information on ACO products, please visit the ACO USA website. This allows access to technical data, videos, images, specifications, and installation instructions.

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Print #SB701

**ACO. creating
the future of drainage**

