



ACO StormBrixx®

Inspection and Maintenance Guide

StormBrixx 300

StormBrixx 600

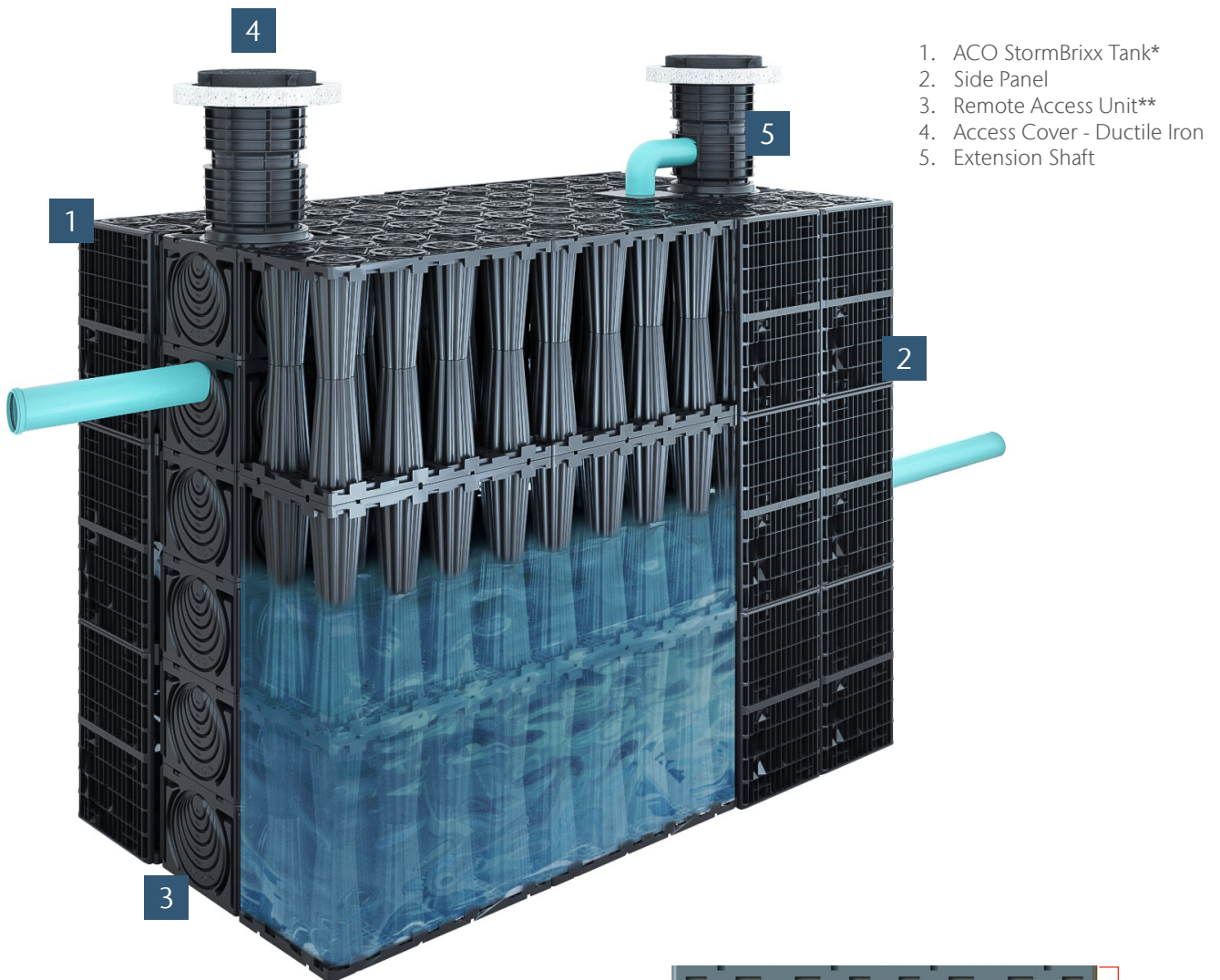
StormBrixx 900



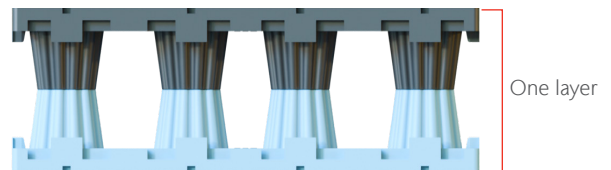
Outline

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ACO StormBrixx® System Components



Note: Image shown represents a typical ACO StormBrixx system.
*Tank refers to the assembled system of ACO StormBrixx components
**Some tanks will have a Remote Access Plate instead of a Remote Access Unit



1 Inspection Overview

The design life of underground stormwater systems of any type assumes that regular inspection and maintenance will occur.

This guide provides inspection and maintenance information for the ACO StormBrixx system.

It is the responsibility of all personnel to familiarize themselves with, understand and comply with all applicable local, state, and federal laws.

All information in this manual is current at the time of printing but is subject to change based on the development of new processes and procedures.

1.1 Construction Protection

During the construction phase, ACO recommends that site erosion controls and siltation prevention measures be implemented to reduce the risk of excessive siltation inside the tank. These measures should be designed and implemented in accordance with local, state, and federal Best Management Practices.

1.2 Inspection Frequency

ACO recommends inspections upon completion of site construction and after major rain events (as a guide rainfall >1" (25 mm) in a 24-hour period) with a minimum frequency of once per year. To help with this process, ACO has provided an Inspection and Maintenance form in this guide (See page 6) as well as the following step-by-step procedure.

1.3 Equipment Needed

In order to inspect and maintain the ACO StormBrixx tank, the following will be required:

- Tools to safely remove and place access covers
- Inspection camera proportioned for 4" diameter pipe inspection - length of 4" pipe with 45° elbow to guide camera
- Hydrovac equipment (maintenance only)
- Tank layout plan
- System logbook

2 Inspection and Maintenance Procedure

Inspection and maintenance can be performed from the surface simply by removing the Access Cover and performing the following steps. Care to conform to all local, state, and federal regulations should be taken.

2.1 Locate the Access Cover

Remove the lid, and safely place it to the side.

The lid has a push-fit locking and requires a vertical pulling force to remove.



2.2 Visual Inspection - External

Start the visual inspection by checking the external area above the tank as concerns here may indicate damage to the tank structure. Check the following:

- Condition of access covers
- Condition of access shafts
- Observe any unusual settlements of the surface above the tank area
- If the area above tank is paved, check for any excessive cracks in the pavement

If excessive pavement settling and/or cracks are noted during external inspection, ensure a thorough inspection of the internal area for cracks and/or damage.



Example of pavement distress

2.3 Visual Inspection - Internal

If the tank has standing water in it, you will need to vacuum the water first to enable internal inspection of the tank.

ACO recommends crawler or push camera proportioned for a 4" diameter pipe inspection. These units can have adjustable cameras and turning capabilities to assist with inspection.



Example of a small-diameter crawler for tight spaces



4" pipe with 45° elbow to guide push camera

The Remote Access Unit includes push camera guides molded into the bottom for easier camera alignment. Depending on the access point location, you may inspect the tank in up to four directions.

Best practice for use of a push camera is to use a 4" pipe with a 45° elbow at the end to help orient the camera in the direction intended for inspection. This is particularly beneficial for deeper tanks.

Perform a visual inspection of the tank using a sewer inspection camera starting with the bottom layer.

During bottom-layer inspection, cleaning is required if sediment has built up to $\frac{1}{4}$ of the tank height or 6" — whichever is shorter. See section 2.4.



Sediment in tank

If visible cracks are noted during inspection, contact ACO for structural inspection guidance.



Example of damaged column and base plate

2.4 Clean the Tank

It is a best practice to clean upstream structures, pipes, and pre-treatment system prior to cleaning the ACO StormBrixx Tank.

Clean the ACO StormBrixx Tank by utilizing Hydrovac equipment to loosen and suspend the debris and sediment.

ACO recommends a max jet pressure of 1,600 psi. The water level may be observed from the access point.

If the ACO StormBrixx Sediment Tunnel is utilized, cleaning will likely be isolated to those tunnel locations.

Note: Completing cleaning within 24 hours of a storm event can help reduce the amount of water required for cleaning.



2.5 Remove Sediment and Water

Once the sediment has been loosened and is suspended in the water, utilize the vacuum in the Hydrovac equipment to remove the water/sediments.

If additional cleaning is required after the water has been removed, repeat steps 2.4 and 2.5 until water runs clean.

Note: If debris and sediment accumulates above the recommended maintenance levels for a prolonged time period without maintenance activities, difficulty of debris and sediment removal will increase.

2 Inspection and Maintenance Procedure (cont.)

2.5 Final Inspection

After completing cleaning, perform a final tank inspection in accordance with step 2.3.

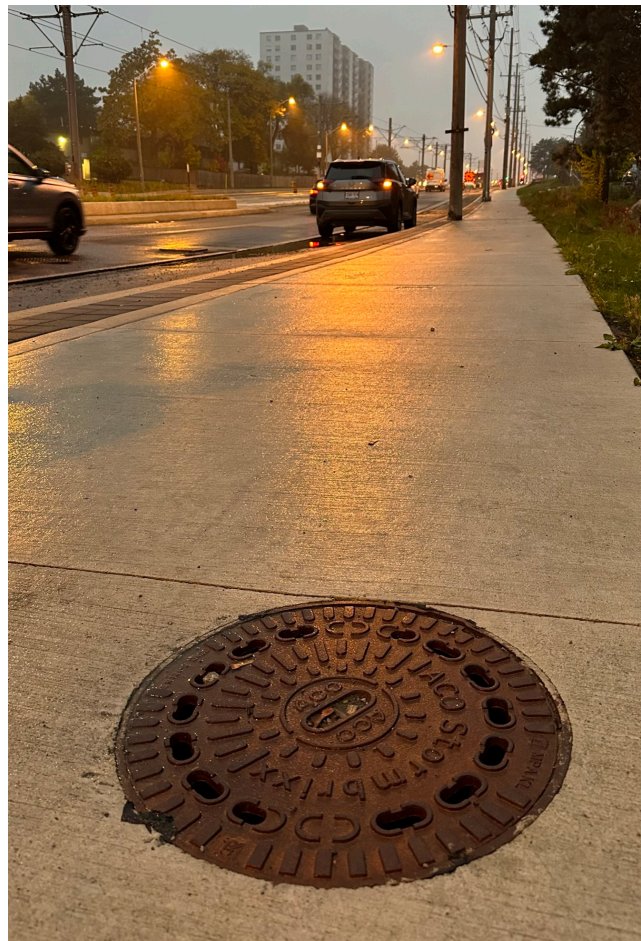


Camera view of clean tank

2.6 Replace Access Cover

After completion of inspection and cleaning of the ACO StormBrixx system, clean access cover and frame seating areas to remove dirt that may cause it to resist replacement. Push cover securely in place.

If additional access locations are present, repeat full maintenance procedure at every access location.



2.7 Update System Logbook

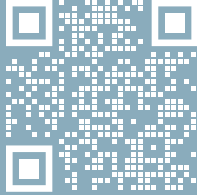
The results of the visual inspection, notes and repairs can be recorded in a System Logbook as a recommended best practice. These records will allow decisions to be made about the necessary frequency of future inspection and maintenance measures.

ACO StormBrixx® Inspection and Maintenance Form



Project Name:		Project Address:	
System Owner:		Inspection Date:	
Maintenance Company:		Inspector Name:	
Inspector Phone #:		Inspector Email:	
Access Location:		Inspection Equipment Used:	

Sediment/Debris Accumulation > 6"?	<input type="checkbox"/> Yes, Hydrovac cleaning recommended <input type="checkbox"/> No
Inspection Condition Notes:	<p>Access cover conditions:</p> <input type="checkbox"/> Yes, level and intact, no signs of settlement <input type="checkbox"/> No, see comments <p>Extension shaft conditions:</p> <input type="checkbox"/> Yes, intact with no signs of settlement or cracking <input type="checkbox"/> No, see comments <p>Surface above tank shows localized settlement > 1"?</p> <input type="checkbox"/> Yes, see comments <input type="checkbox"/> No <p>If asphalt paved, are unsealed cracks along the tank perimeter or alligator cracking observed above tank?</p> <input type="checkbox"/> Yes, see comments <input type="checkbox"/> No
Maintenance Performed?	<input type="checkbox"/> Yes, final inspection showed sediment/debris accumulation <6" <input type="checkbox"/> No, will complete at later date <input type="checkbox"/> Not required at this time
Maintenance Equipment Used:	
Nozzle Pressure:	PSI
Nozzle Flow Rate:	GPM
Maintenance Notes:	



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