

# ACO StormBrixx

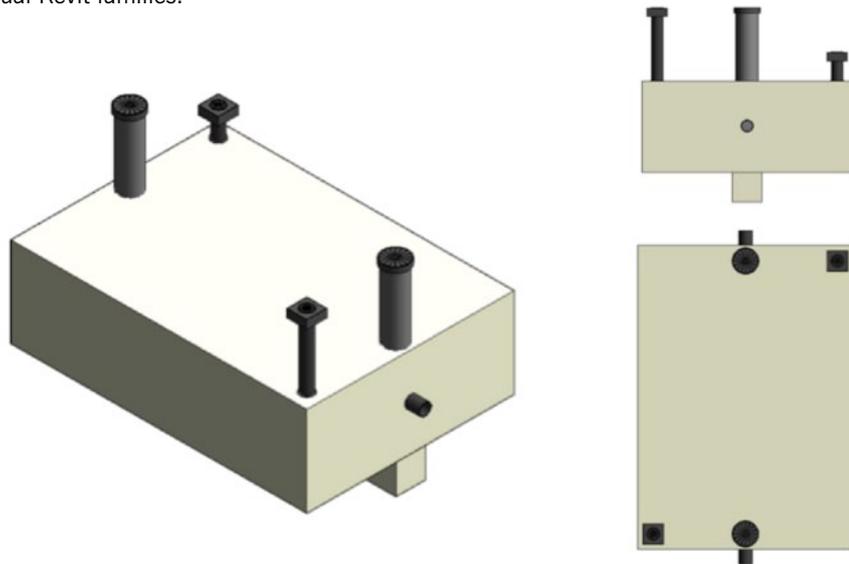
## Stormwater attenuation and infiltration system

### User Guide for Autodesk Revit files

#### ▶ The ACO StormBrixx Range

ACO StormBrixx is divided into 3 individual Revit families.

- StormBrixx complete system
- Access Chamber
- Inspection Chamber

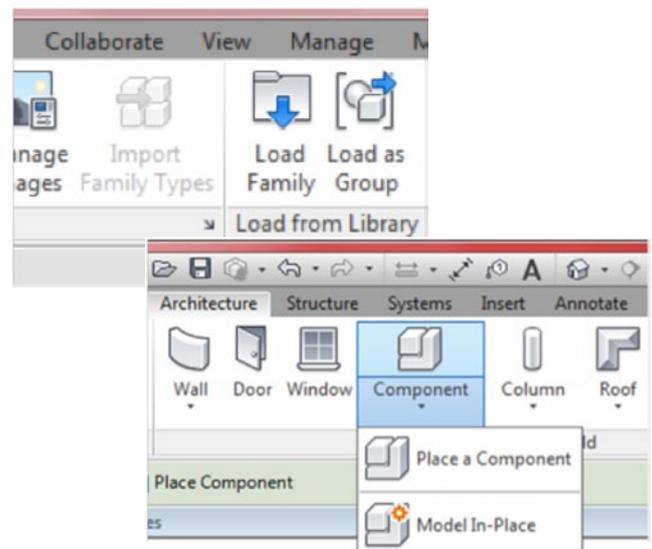


#### ▶ Loading ACO StormBrixx into your project

Each system is modelled as a generic family that can simply be loaded into your project.

1. Download the relevant ACO StormBrixx file and save it to a suitable location
2. Open your project and navigate to an appropriate view
3. Navigate to the "Insert" icon on the Revit ribbon and click "Load Family"
4. Select the StormBrixx Revit file you saved earlier
5. The file can now be placed into your project. Navigate to the "Architecture/Component" icons on the Revit ribbon and click "Place a Component"

Note that all of the StormBrixx files are "floor" based items.



# ▶ Using the system and options

## ACO StormBrixx systems and options

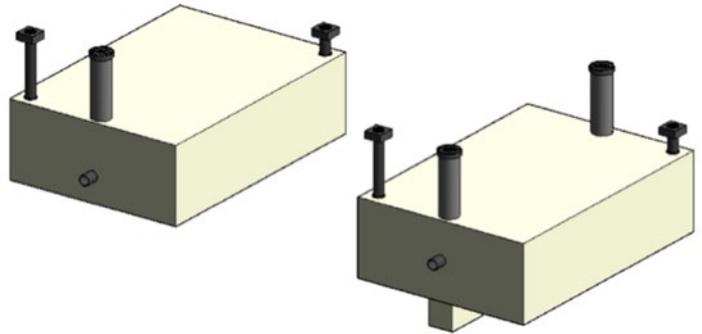
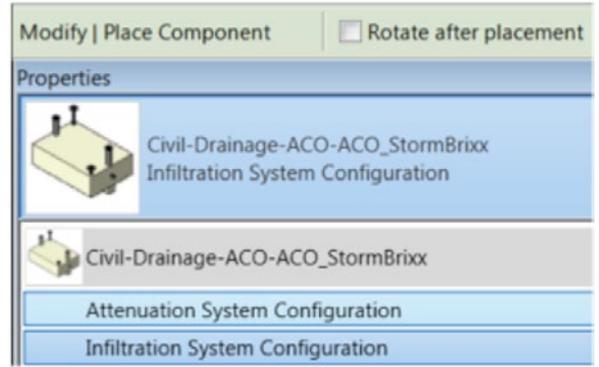
### Step 1: Select the StormBrixx system required

Within the StormBrixx complete system there are 2 types of system available:

- Attenuation System
- Infiltration System

Each system will load to default settings

Select your option from the “Properties” drop down menu.



### Step 2: Customising the StormBrixx system

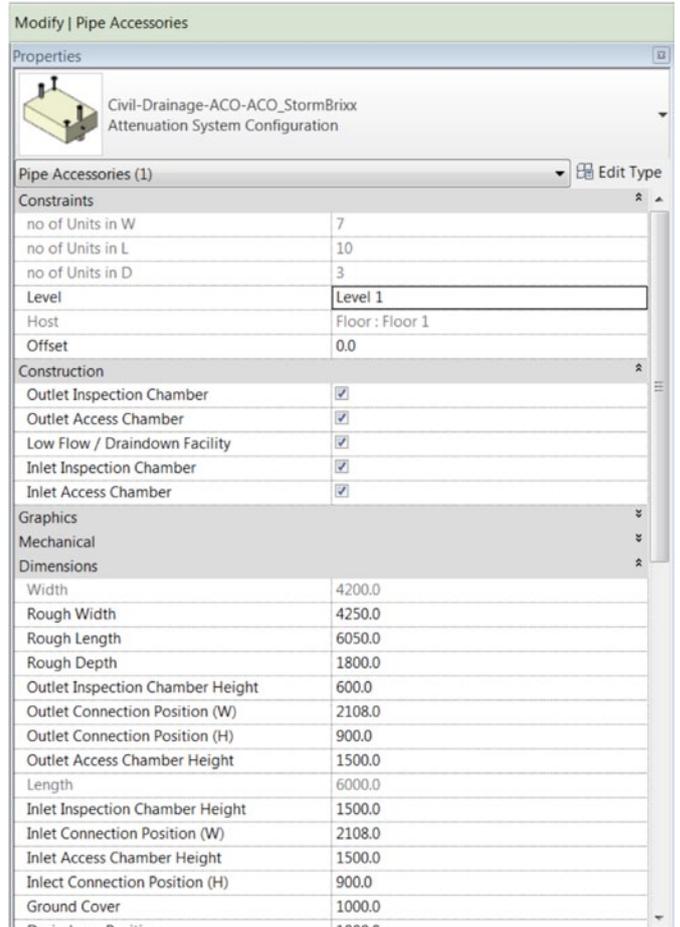
Once the required system type has been placed into the project, it can be customised to suit the specific design needs of the drainage scheme.

To customise the system, simply select it and then refer to the “Properties” box on the left hand side of the screen.

#### a. Including and excluding certain system features

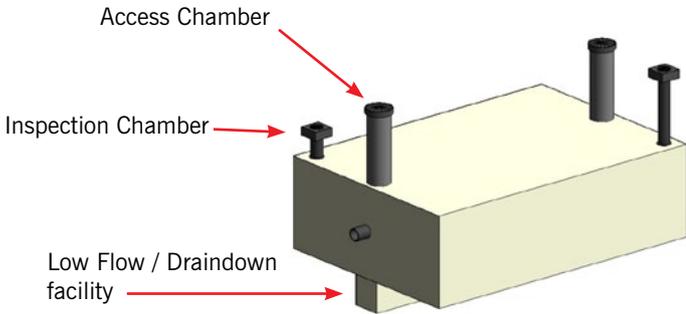
Certain features have been built into the system to allow simple on/off selection, these features are:

- Low Flow / Draindown facility
- Inlet Inspection Chambers
- Outlet Inspection Chambers
- Inlet Access Chambers
- Outlet Access Chambers



## ▶ Using the channel system and options

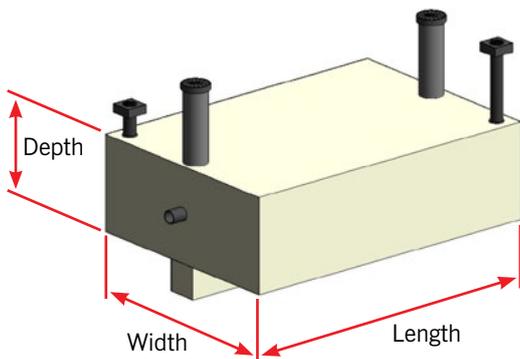
Depending on the system type chosen, some of these features may or may not be shown. To add or remove specific features from your design, simply turn them on or off via the tick box option in the menu.



### b. Customising the system size

The overall length, width and depth of the system can be customised by changing the values in the “Properties” box.

Simply enter the approximate dimensions required in the fields highlighted below, and the system will update to the correct dimensions (i.e. multiples of the StormBrixx tank unit).



Modify   Pipe Accessories	
 Civil-Drainage-ACO-ACO_StormBrixx Attenuation System Configuration	
Pipe Accessories (1)	
Level	Level 1
Host	Floor : Floor 1
Offset	0.0
Construction	
Outlet Inspection Chamber	<input checked="" type="checkbox"/>
Outlet Access Chamber	<input checked="" type="checkbox"/>
Low Flow / Draindown Facility	<input checked="" type="checkbox"/>
Inlet Inspection Chamber	<input checked="" type="checkbox"/>
Inlet Access Chamber	<input checked="" type="checkbox"/>

Modify   Pipe Accessories	
 Civil-Drainage-ACO-ACO_StormBrixx Attenuation System Configuration	
Pipe Accessories (1)	
Dimensions	
Width	4200.0
Rough Width	4250.0
Rough Length	6050.0
Rough Depth	1800.0
Outlet Inspection Chamber Height	600.0
Outlet Connection Position (W)	2108.0
Outlet Connection Position (H)	900.0
Outlet Access Chamber Height	1500.0
Length	6000.0
Inlet Inspection Chamber Height	1500.0
Inlet Connection Position (W)	2108.0
Inlet Access Chamber Height	1500.0
Inlet Connection Position (H)	900.0
Ground Cover	1000.0
Draindown Position	1808.0
Depth	1830.0
Size	225 mmø-225 mmø

## ▶ Using the channel system and options

To allow quick and efficient sizing of the system, the volume of the StormBrixx system is displayed within the “Properties” box for reference.

Modify | Pipe Accessories

Properties



Civil-Drainage-ACO-ACO\_StormBrixx  
Attenuation System Configuration

Pipe Accessories (1)

Level	Level 1
Host	Floor : Floor 1
Offset	5442.1

Construction

Graphics

Mechanical

Dimensions

Identity Data

Comments	
Mark	3

Phasing

Phase Created	New Construction
Phase Demolished	None

Data

Volume	46.116 m <sup>3</sup>
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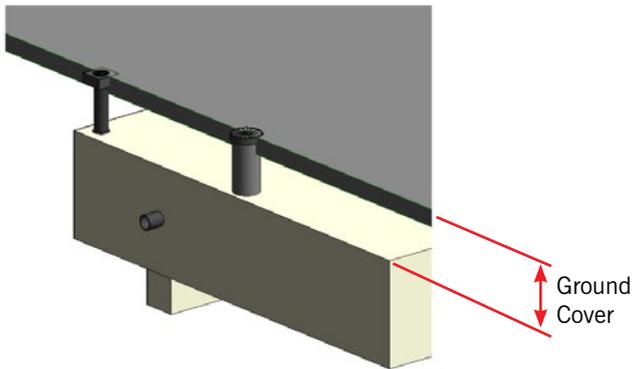
Visibility

Show Grid	<input checked="" type="checkbox"/>
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Insulation

### c. Customising the Ground Cover

To customise the ground cover over the system simply enter the dimension required in the highlighted fields, and the system will update.



Modify | Pipe Accessories

Properties



Civil-Drainage-ACO-ACO\_StormBrixx  
Attenuation System Configuration

Pipe Accessories (1)

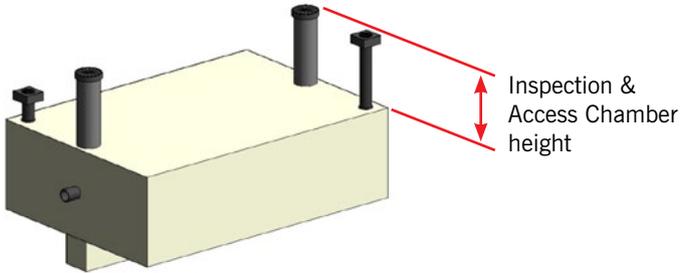
Dimensions

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Rough Width	4250.0
Rough Length	6050.0
Rough Depth	1800.0
Outlet Inspection Chamber Height	600.0
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Outlet Access Chamber Height	1500.0
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Ground Cover	1000.0
Draindown Position	1808.0
Depth	1830.0
Size	225 mmø-225 mmø

## ▶ Using the channel system and options

d. Customising the Inspection Chamber and Access Chamber heights.

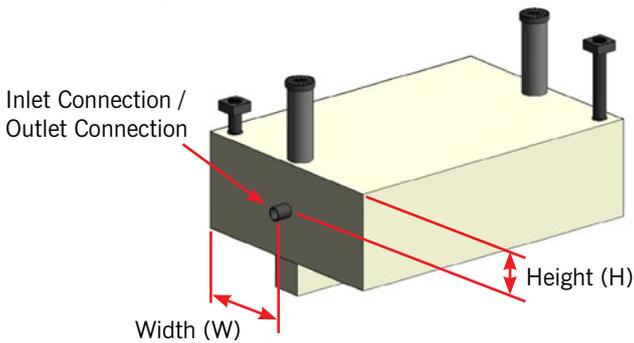
To customise the Inspection Chamber and Access Chamber heights, simply enter the dimensions required in the highlighted fields, and the system will update.



Modify   Pipe Accessories	
<b>Properties</b>  Civil-Drainage-ACO-ACO_StormBrixx Attenuation System Configuration	
<b>Pipe Accessories (1)</b>	
<b>Dimensions</b>	
Width	4200.0
Rough Width	4250.0
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Depth	1830.0
Size	225 mmø-225 mmø

e. Customising the Inlet Connection and Outlet Connection positions.

To customise the Inlet Connection and Outlet Connection positions, simply enter the dimensions required in the highlighted fields, and the system will update.

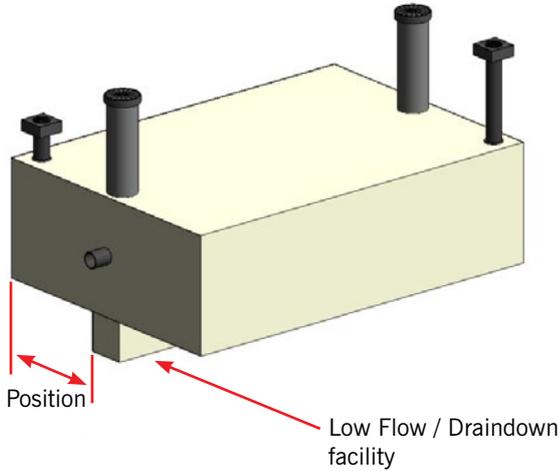


Modify   Pipe Accessories	
<b>Properties</b>  Civil-Drainage-ACO-ACO_StormBrixx Attenuation System Configuration	
<b>Pipe Accessories (1)</b>	
<b>Dimensions</b>	
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Ground Cover	1000.0
Draindown Position	1808.0
Depth	1830.0
Size	225 mmø-225 mmø

## ▶ Using the channel system and options

f. Customising the Low Flow / Draindown Facility position.

To customise the Low Flow / Draindown Facility position, simply enter the dimension required in the highlighted fields, and the system will update.



Modify | Pipe Accessories

Properties

Civil-Drainage-ACO-ACO\_StormBrixx  
Attenuation System Configuration

Pipe Accessories (1)

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Inlet Access Chamber Height	1500.0
Inlet Connection Position (H)	900.0
Ground Cover	1000.0
<b>Draindown Position</b>	<b>1808.0</b>
Depth	1830.0
Size	225 mmø-225 mmø

g. Customising the Inlet Connection and Outlet Connection pipe diameters.

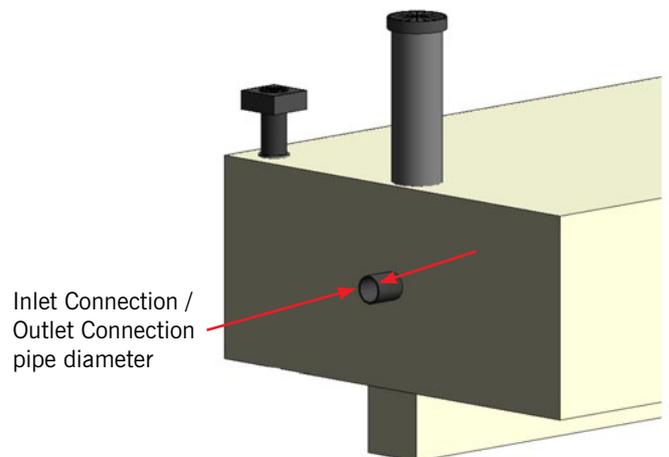
To customise the Inlet Connection and Outlet Connection pipe diameters, open up the “Type Properties” information sheet and simply enter the dimension required in the highlighted fields, and the system will update.

Type Properties

Family: Civil-Drainage-ACO-ACO\_StormBrixx

Type: Attenuation System Configuration

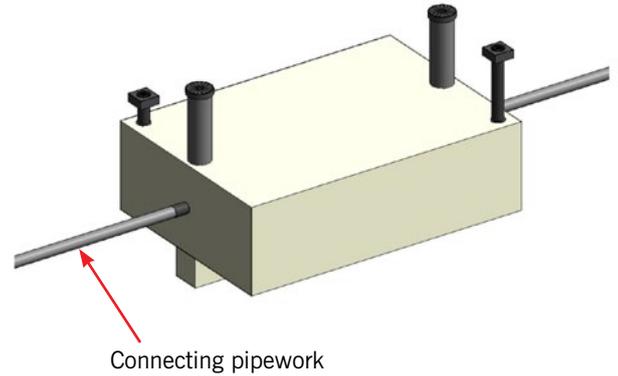
Type Parameters	
Parameter	
<b>Constraints</b>	
Location of ConIn	900.0
Exc A	25,000"
Connection OUT Rad	112.5
Connection IN Rad	112.5
Con B Out	127.5
Con A Out	127.5



## ▶ Using the channel system and options

### h. Adding pipework to the system.

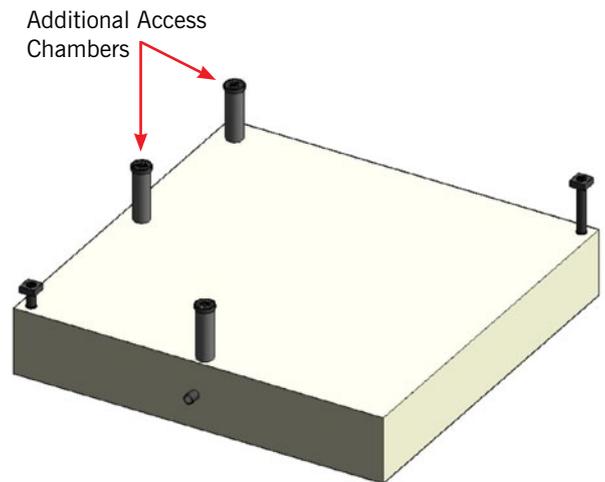
The StormBrixx system allows connecting pipework to easily be added. Simply select the Inlet Connection Pipe and/or Outlet Connection Pipe on the system, click the “Create Pipe” icon and position connecting pipework as required.



### Step 3: Adding additional Inspection Chambers and Access Chambers.

If the design of the system requires additional Inspection Chamber and / or Access Chamber positions then these can simply be added.

Load the separate Inspection Chamber and / or Access Chamber Revit family into the project and insert the required component into the correct position. The height of the Inspection Chambers or Access Chambers can be modified within the “Properties” box.

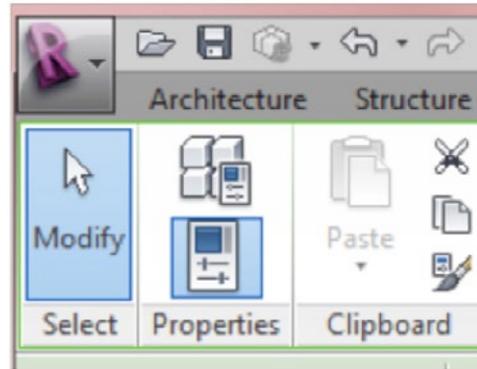


## ▶ Type properties

The ACO StormBrixx file has a lot of useful information embedded within it, including installation and maintenance details.

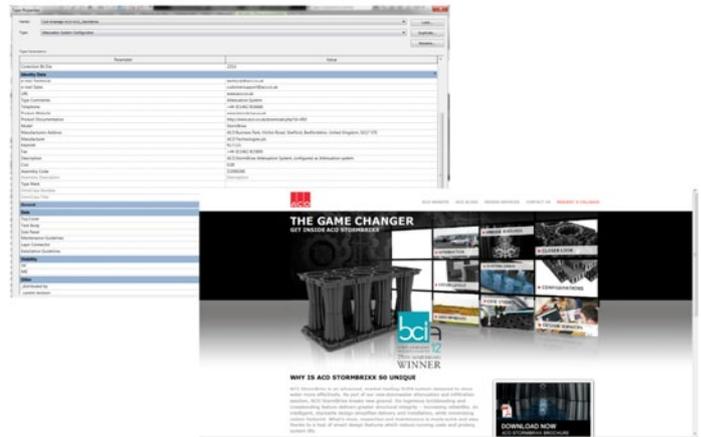
This information, along with much more is either stored within the files or available through hyperlinks within the components type properties.

1. To access the information within the component, simply select the component and then click the “Type Properties” icon on the Revit ribbon at the top of the screen



2. The “Type Properties” information sheet will now be displayed on the screen. Simply scroll up and down the sheet to find the information you require.

3. The information within the “Type Properties” is stored as “Shared Parameters” so can easily be used when creating a schedule for example.



## ▶ Material library

The ACO StormBrixx file contains materials that are already pre-loaded into the components. When loading the ACO StormBrixx file into your project the pre-loaded materials will automatically transfer through.

## ▶ Other notes

You can add the ACO StormBrixx systems to your company template file. They will then be available without the need to load them when starting a new project. The ACO StormBrixx systems have been created in Revit 2013.

For further information on ACO StormBrixx including a full system demonstration, installation movies and help with specification, design or installation, visit [www.stormbrixx.co.uk](http://www.stormbrixx.co.uk) or contact the ACO Water Management Design Services Team on 01462 816666 or email: [technical@aco.co.uk](mailto:technical@aco.co.uk)