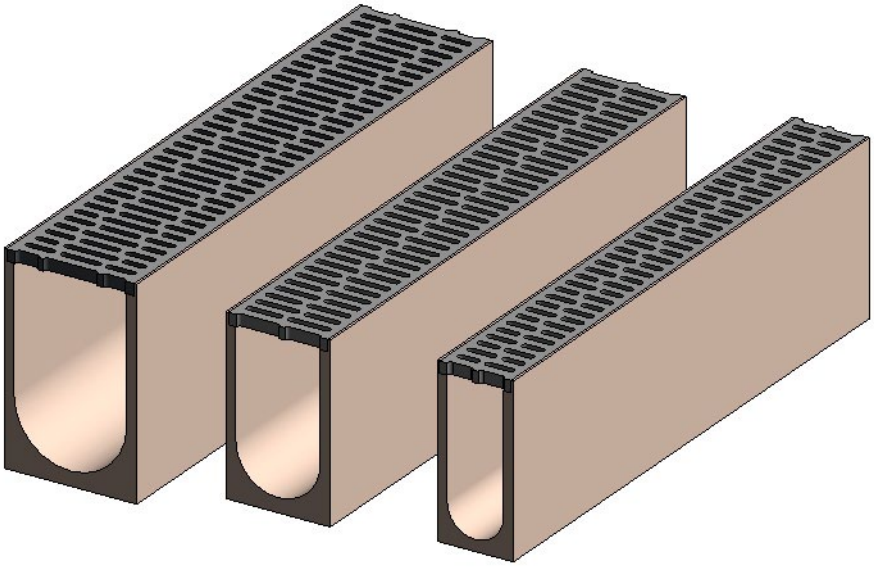
ACO MultiDrain
Channel drainage system

User Guide for Autodesk Revit files

The ACO MultiDrain Range

ACO MultiDrain is divided into 6 individual Revit families.

- M100D
- M100DS
- M150D
- M150DS
- M200D
- M200DS



Loading ACO MultiDrain into your project

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

1. Download the relevant ACO MultiDrain file and save it to a suitable location

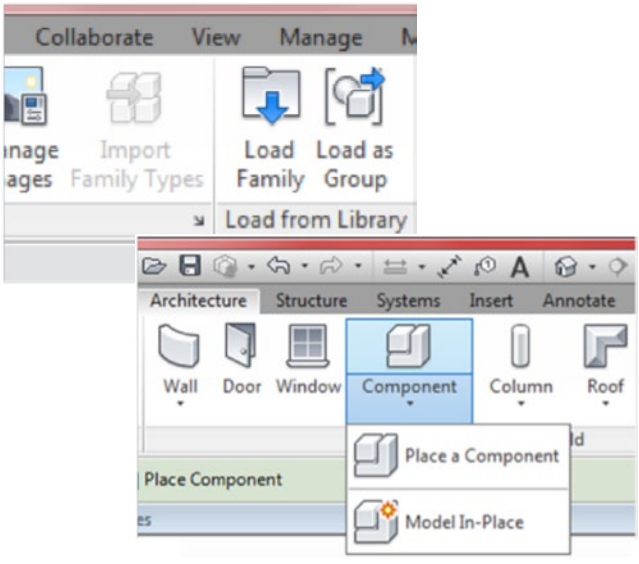
2. Open your project and navigate to an appropriate view

3. Navigate to the “Insert” icon on the Revit ribbon and click “Load Family”

4. Select the MultiDrain 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 MultiDrain files are “floor” based items.



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Using the channel system and options

ACO MultiDrain channel system and options

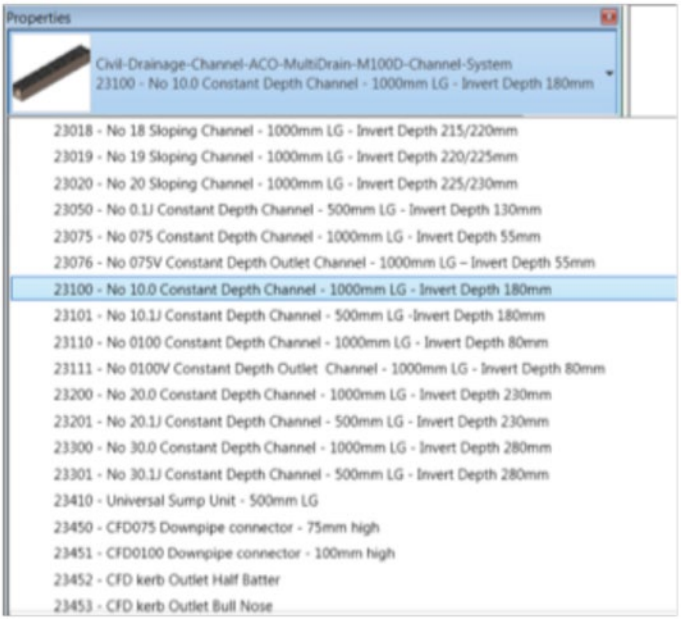
Step 1: Select the channel

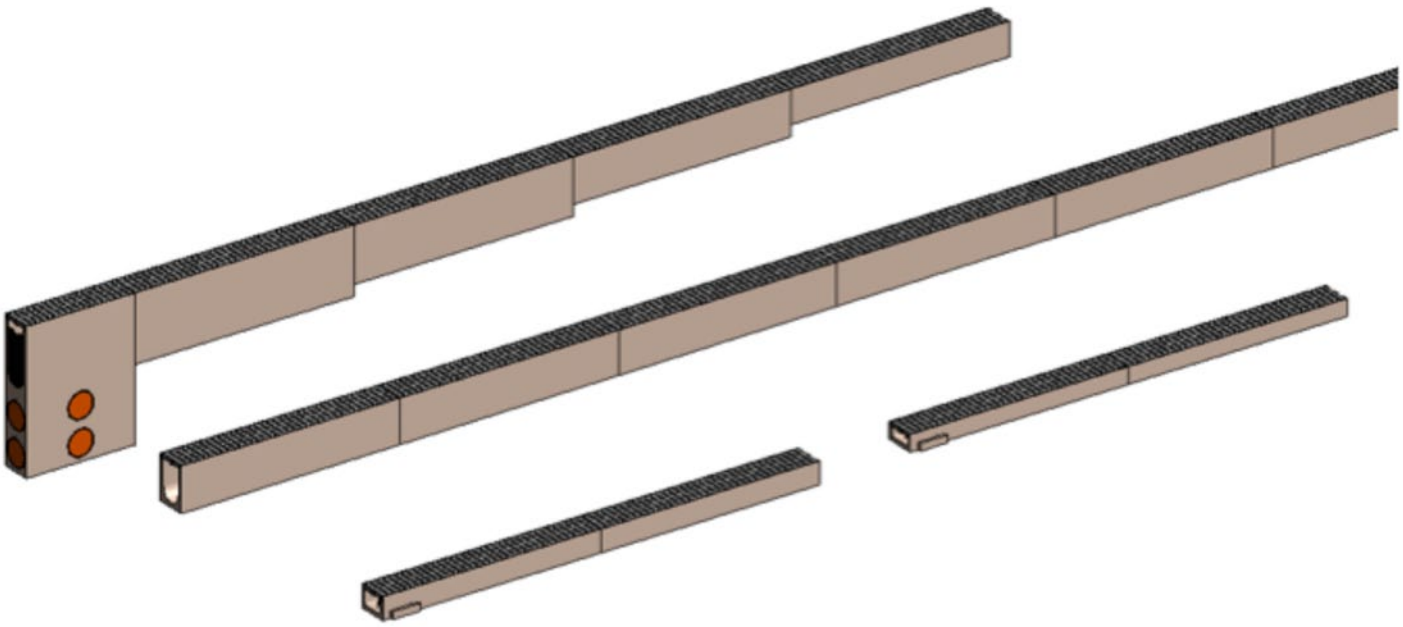
All of the different options of the MultiDrain channel systems are available within the Revit family.

Examples of the options included:

- 1m Constant depth channel
- 0.5m Constant depth channel
- 1m Shallow depth channel
- 1m Sloping channel
- 0.5m Sump units
- Channel footpath drainage unit

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





Step 2: Select the grating

Additional features have been built into the MultiDrain files that allow simple selection of the extensive range of gratings. Grating types include:

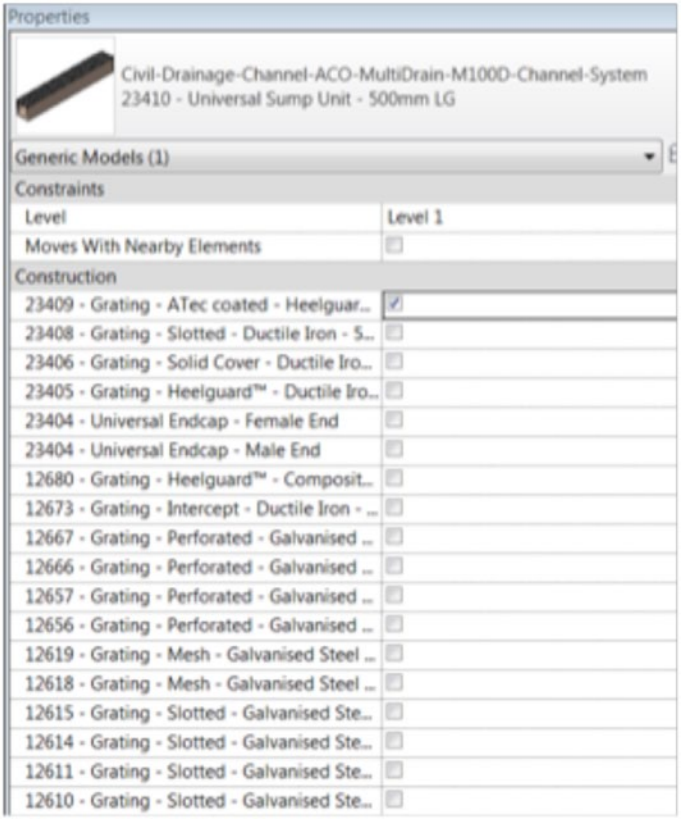
- 0.5m Ductile iron grating
- 0.5m Composite grating
- 0.5m Galvanised steel grating
- 1m Galvanised steel grating
- 0.5m Stainless steel grating
- 1m Stainless steel grating

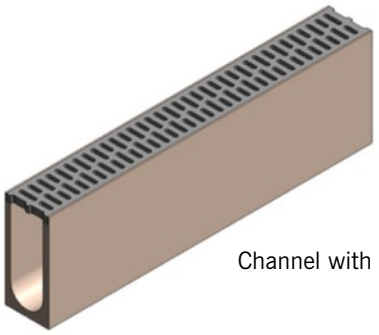
To choose the actual grating type required, position the channel within the project and then select it. Once selected, the "Properties" box will appear on the left hand side of the screen for the channel.

Options can be made from here by using the tick box feature.

By default a generic grating is always displayed on a channel when it is placed within the project. The generic grating will always be displayed on the channel and will not visually alter, no matter what grating is selected by the tick box in the properties box. The grating cannot be hidden.

Once the grating type selection has been made in the "Properties" box it can, for example, be referenced for costing, scheduling and maintenance purposes.





Channel with generic grating.

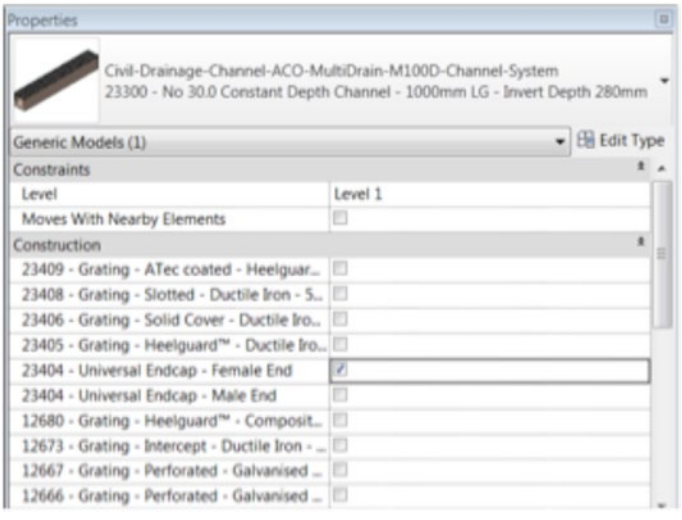
Step 3: Select the end cap

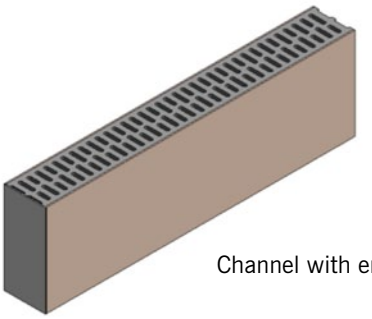
Additional features have been built into the MultiDrain files that allow simple on/off selection of the end cap.

By default the end cap is turned off and will not be included in the project. Turn on to be included in the project.

To choose the end cap, position the channel within the project and then select it. Once selected, the "Properties" box will appear on the left hand side of the screen for the component.

Options can be made from here.





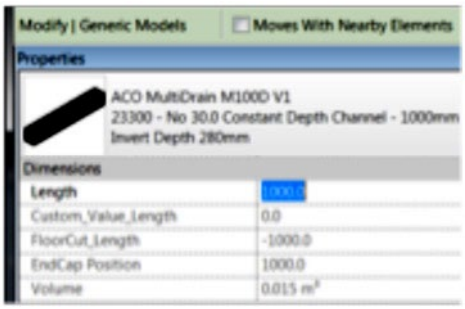
Channel with end cap selected.

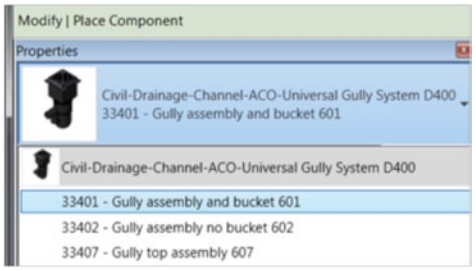
Step 4: Non-standard channel lengths

Additional features have been built into the MultiDrain files that allow non-standard channel lengths to be incorporated in the project.

To choose a non-standard channel length, position the channel within the project and select it, the “Properties” box will appear on the left hand side of the screen for the component.

Options for shorter, non-standard channel lengths can be made here.





ACO Universal Gully

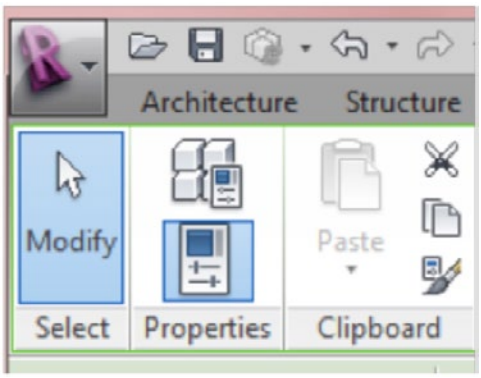
For further outlet options to the ACO MultiDrain channel system, incorporate the “ACO Universal Gully” into the project. Simply download and load into the project.

Type properties

The ACO MultiDrain file has a wealth 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 **MultiDrain** files contain materials that are already pre-loaded into the components. When loading the ACO **MultiDrain** files into your project the pre-loaded materials will automatically transfer through.

Other notes

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