

# ACO S Range

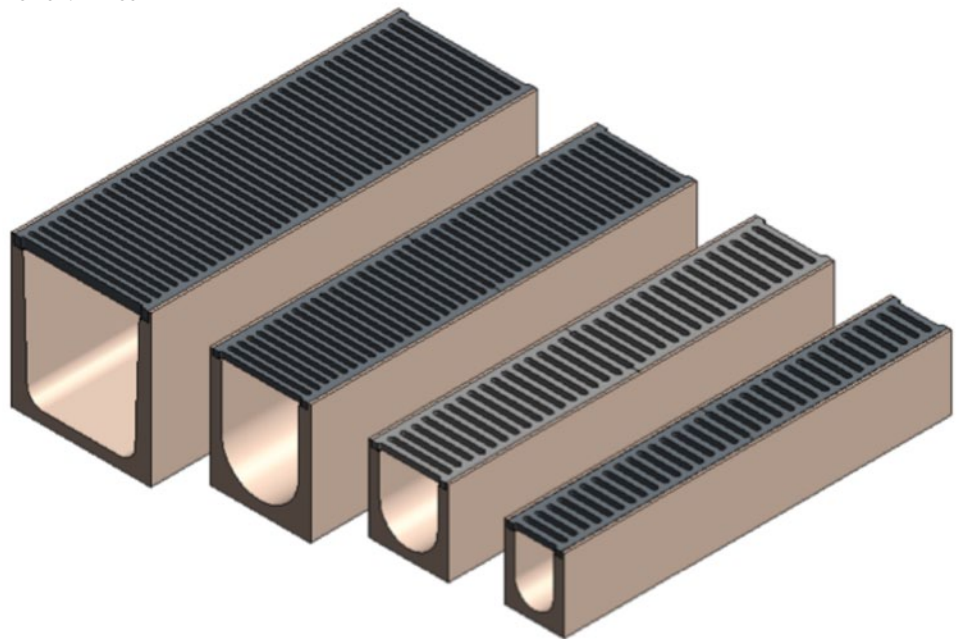
## Heavy duty channel drainage system

### User Guide for Autodesk Revit files

#### The ACO S Range

ACO S Range is divided into 4 individual Revit families.

- S100
- S150
- S200
- S300

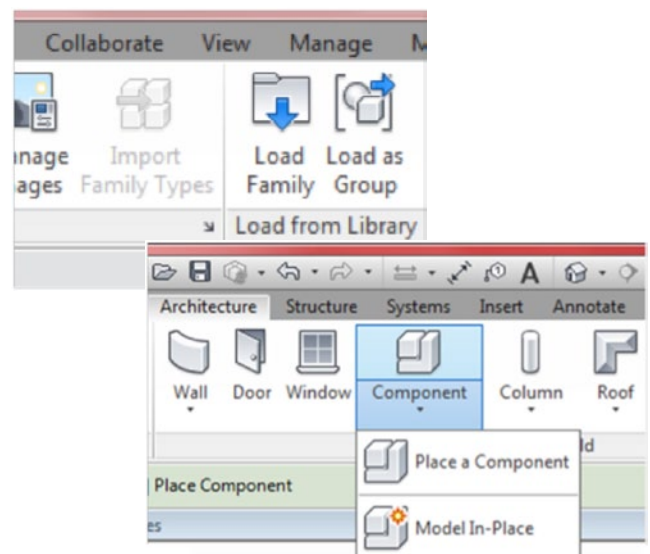


#### Loading ACO S Range into your project

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

1. Download the relevant ACO S Range 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 S Range 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 S Range files are "floor" based items.



## Using the channel system and options

### ACO MultiDrain channel system and options

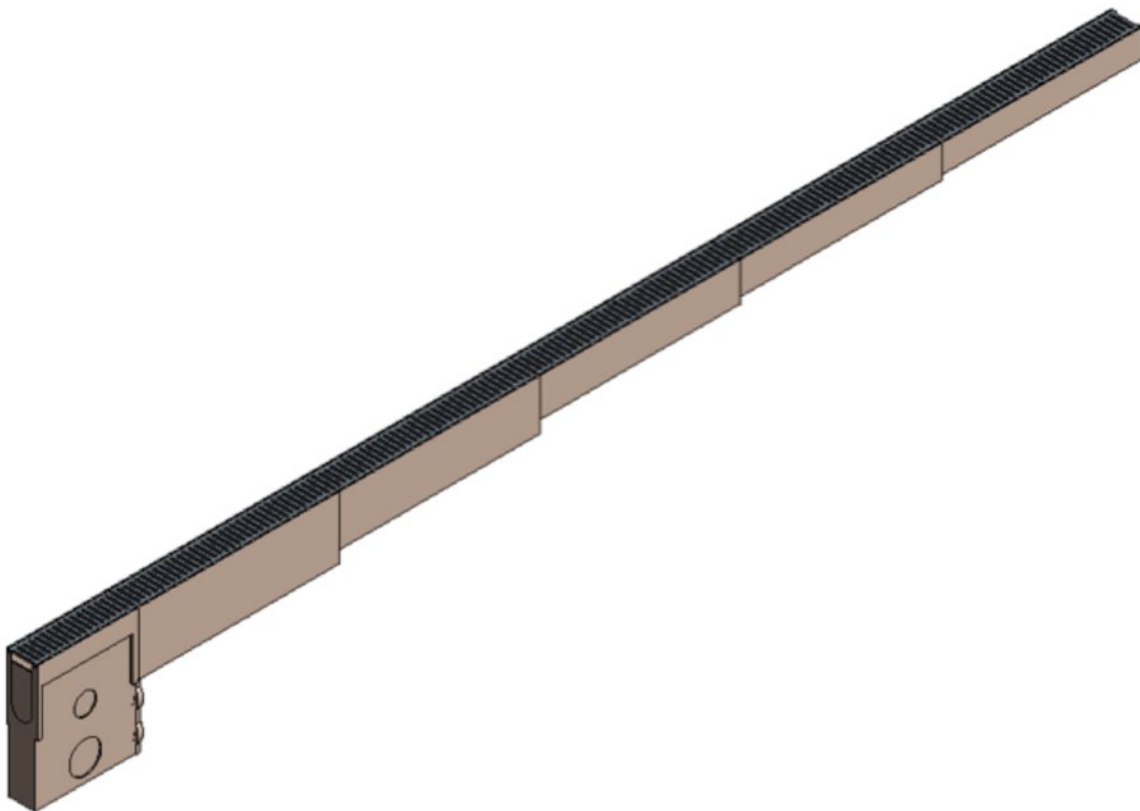
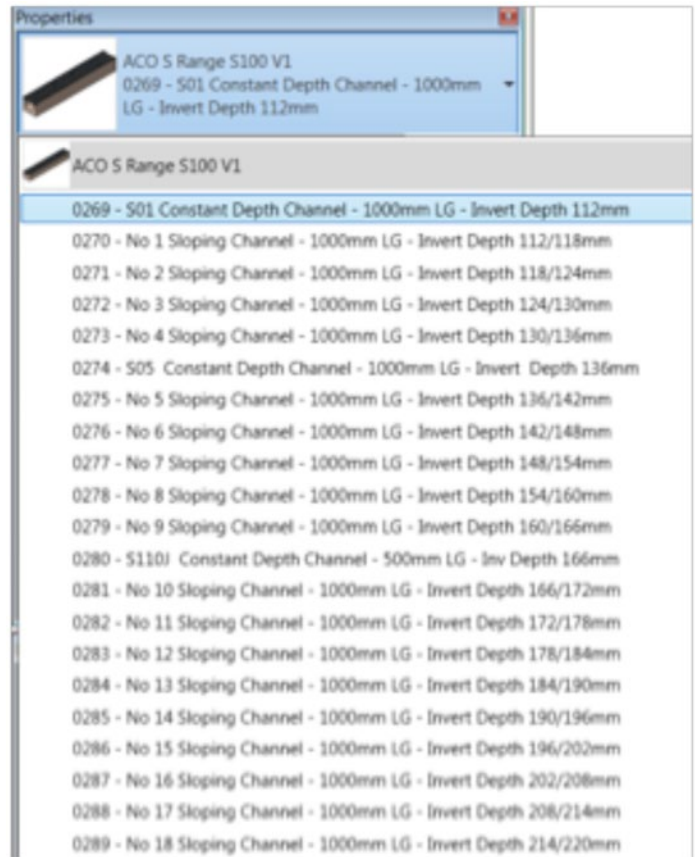
#### Step 1: Select the channel

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

Examples of the options included:

- 1m Constant depth channel
- 0.5m Constant depth channel
- 1m Sloping channel
- 0.5m Sump units
- Gully unit
- Closing End Caps
- Inlet / Outlet End Caps

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



## Step 2: Select the grating – S100 only

Additional features have been built into the S100 file that allows simple selection of the range of gratings. Grating types include:

- 0.5m Ductile iron gratings
- Class E 600 & F 900
- Heelguard style
- Slotted style
- Intercept style
- Solid cover style

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.

Properties

ACO S Range S100 V1  
0269 - S01 Constant Depth Channel - 1000mm LG - Invert Depth 112mm

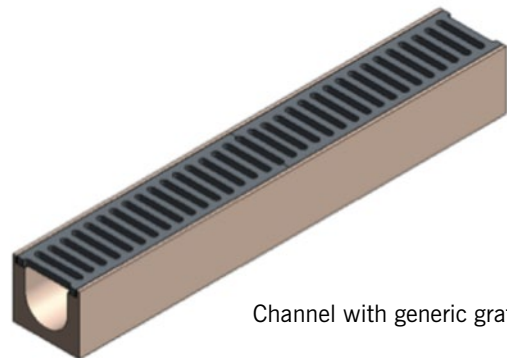
Generic Models (1)

Constraints

|                            |                          |
|----------------------------|--------------------------|
| Level                      | Level 1                  |
| Moves With Nearby Elements | <input type="checkbox"/> |

Construction

|   |                                     |
|---|-------------------------------------|
| 7626 - Grating - E600 - Solid Cover - Ductile Iron - 500mm Long | <input type="checkbox"/>            |
| 0776 - Grating - E600 - Intercept - Ductile Iron - 500mm Long   | <input type="checkbox"/>            |
| 4604 - Grating - F900 - Slotted - Ductile Iron - 500mm Long     | <input type="checkbox"/>            |
| 0774 - Grating - F900 - Heelguard™ - Ductile Iron - 500mm Long  | <input checked="" type="checkbox"/> |



Channel with generic grating

## Step 3: Non-standard channel lengths

Additional features have been built into the S Range 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.

Properties

ACO S Range S100 V1  
0269 - S01 Constant Depth Channel - 1000mm LG - Invert Depth 112mm

Generic Models (1)

Constraints

|                            |                          |
|----------------------------|--------------------------|
| Level                      | Level 1                  |
| Moves With Nearby Elements | <input type="checkbox"/> |

Construction

|   |                                     |
|---|-------------------------------------|
| 7626 - Grating - E600 - Solid Cover - Ductile Iron - 500mm Long | <input type="checkbox"/>            |
| 0776 - Grating - E600 - Intercept - Ductile Iron - 500mm Long   | <input type="checkbox"/>            |
| 4604 - Grating - F900 - Slotted - Ductile Iron - 500mm Long     | <input type="checkbox"/>            |
| 0774 - Grating - F900 - Heelguard™ - Ductile Iron - 500mm Long  | <input checked="" type="checkbox"/> |

Dimensions

|                     |         |
|---------------------|---------|
| Length              | 1000.0  |
| Custom Value Length | 0.0     |
| FloorCut_Length     | -1000.0 |

## ACO Universal Gully

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

Modify | Place Component

Properties

Civil-Drainage-Channel-ACO-Universal Gully System D400  
33401 - Gully assembly and bucket 601

Civil-Drainage-Channel-ACO-Universal Gully System D400

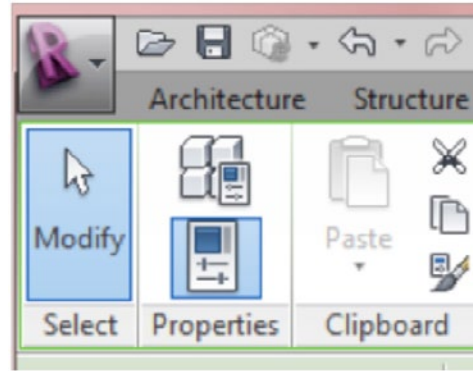
|                                       |
|---------------------------------------|
| 33401 - Gully assembly and bucket 601 |
| 33402 - Gully assembly no bucket 602  |
| 33407 - Gully top assembly 607        |

## ▶ Type properties

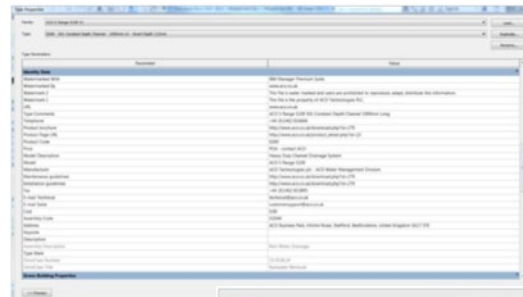
The ACO S Range file has a wealth of useful information embedded within it, including installation and maintenance details.

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 S Range files contain materials that are already pre-loaded into the components. When loading the ACO S Range files into your project the pre-loaded materials will automatically transfer through.

## ▶ Other notes

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