

ACO Modular 125

Shallow Invert Surface Water Drainage System

User Guide for Autodesk Revit files

▶ The ACO Modular 125 Range

ACO Modular 125 is divided into 7 individual Revit families.

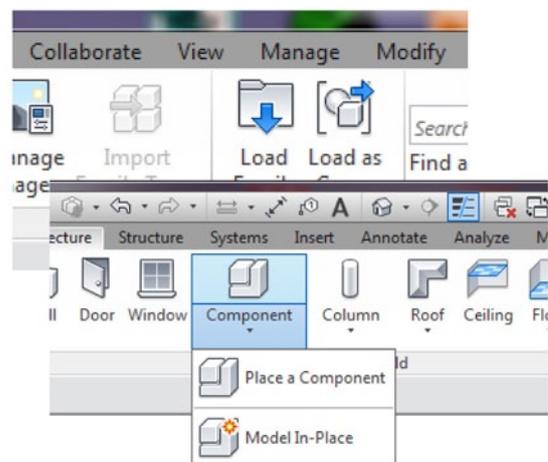
- ACO BD Modular 125 Level invert straight channels
- ACO BD Modular 125 Sloping invert straight channels
- ACO BD Modular 125 Corner Units
- ACO BD Modular 125 Branch Units
- ACO BD Modular 125 Inline Outlets
- ACO BD Modular 125 One and Two Way Gully Units
- ACO BD Modular 125 Discreet Outlets



▶ Loading ACO Modular 125 into your project

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

1. Download the relevant ACO Modular 125 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 Modular 125 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 Modular 125 files are "floor" based items.

ACO Building Drainage

A division of ACO Technologies plc
 ACO Building Drainage, ACO Business Centre,
 Caxton Road, Bedford, MK41 0LF

Tel: 01462 816666
 Fax: 01462 851490

e-mail: abdtechnical@aco.co.uk
 website: www.acobd.co.uk

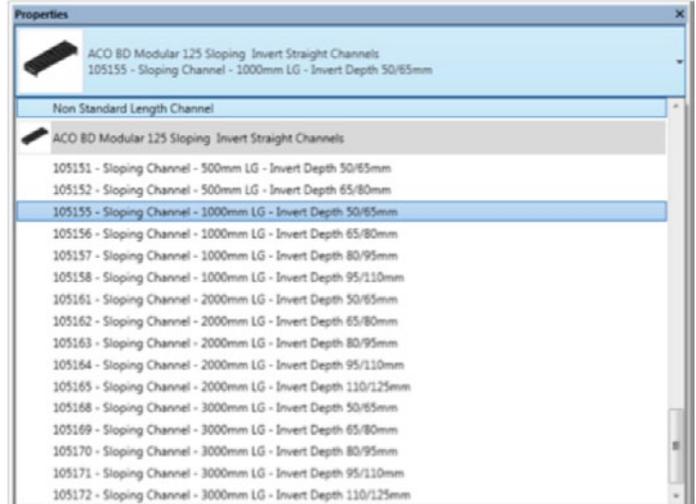
▶ Using the ACO Modular 125 channel system and components

Step 1: Select the Modular 125 Channel component

Modular 125 components are available in standard length of 0.5M, 1.0M, 2.0M or 3.0M and with level or sloping invert options. Inverts vary from 50mm to 125mm in 15mm increments and these are pre-set in the family properties.

A further non-standard length is available, and this can be controlled by the user – including the invert depths at both ends

Corner and branch units have options for pre-set invert depths.



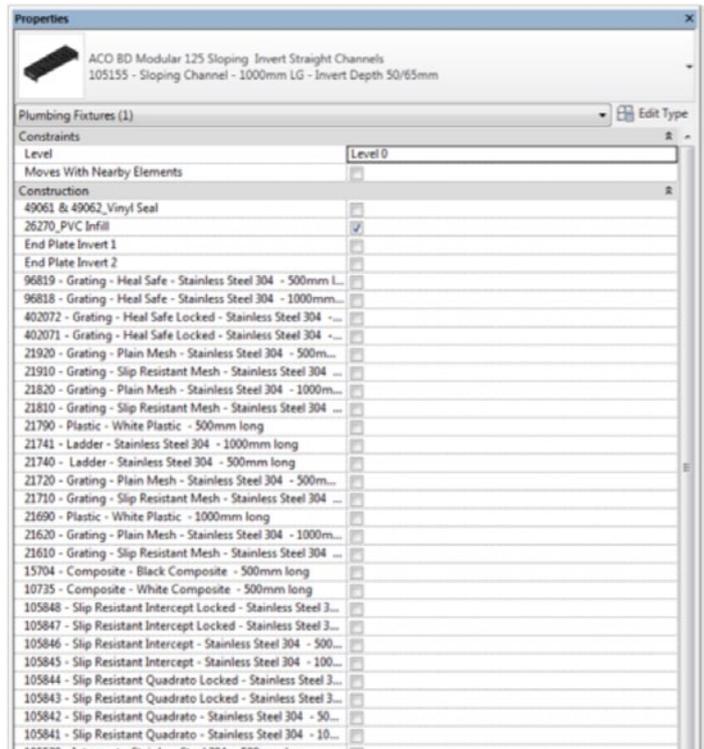
Step 2: Select the grate

Additional features have been built into the Modular 125 files that allows for simple selection of the extensive range of grates.

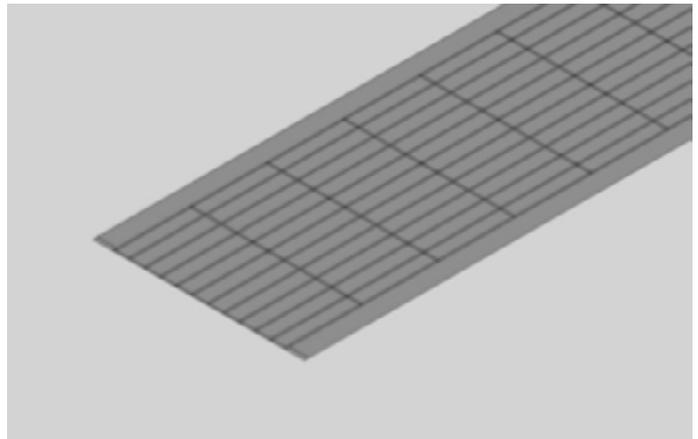
Grate styles include a range of materials, increased load class and grate surface styles.

To choose a grate style, position the channel within the project and then select it. Once selected the “properties” box will appear and selection of the grate style can be made by means of the tick box feature as shown.

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



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



▶ Using the ACO Modular 125 channel system and components

Step 3: Selecting End plates

In addition to the grate style, the Modular 125 files allow for the simple on/off selection of end plates, again via the “properties” box.

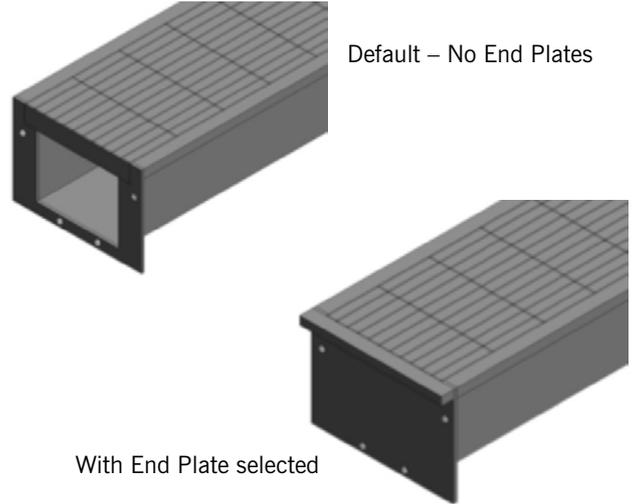
By default the end plate(s) are turned off and will not be included in the project schedules.

Note: If selected and displayed they are included in the project schedules.

To choose to include an end plate, position the channel within the project and then select it. Once selected the “properties” box will appear and selection of the end plate at either end can be made by means of the tick box feature as shown.

Note: “Invert 1” refers to the insertion end of the channel, whilst “Invert 2” is the opposite end. Consider this for inserted then rotated channels in the project.

Normally, end plates need only be included at the extreme (termination) points of a channel run.



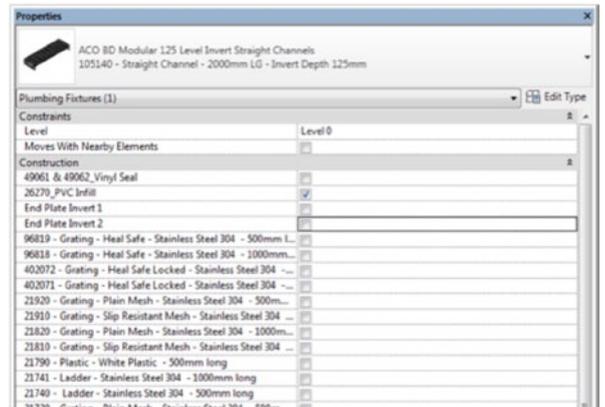
Step 4: PVC Infill & ACO Vinyl Seal®

The modular 125 system can be used with a variety of edge floor finishes to suit varying load requirements and surrounding floor finishes.

The PVC infill is used to give additional strength to the channel in dense traffic areas, and to aid installation (Load Class C 250 to BS EN1433)

The Vinyl Seal® option is used with vinyl floor finishes and provides a means to fully weld and waterproof the interface between the channel and the vinyl floor.

Note: PVC infill and ACO Vinyl seal cannot be specified together.



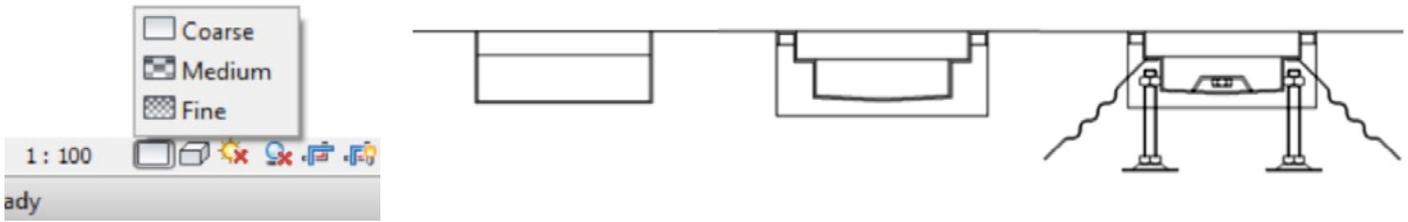
Step 5: Building Modular 125 channel runs.

ACO Modular 125 offers a huge number of layout variations the using standard components of length and invert (sloping or level). This number of variations is almost infinite when the non-standard lengths and non-standard inverts are included. The family components can simply be placed and arranged using the standard Revit “modify” tools of Move, Copy, Rotate and Align.

Please note however that certain limitations apply and that guidance can always be sought from ACO Building Drainage Technical Services – abdtechnical@aco.co.uk

Step 6: Sectional Accuracy

ACO Modular 125 family components are designed with varying levels of detail, which can be accessed via the Revit “Detail Level” function.

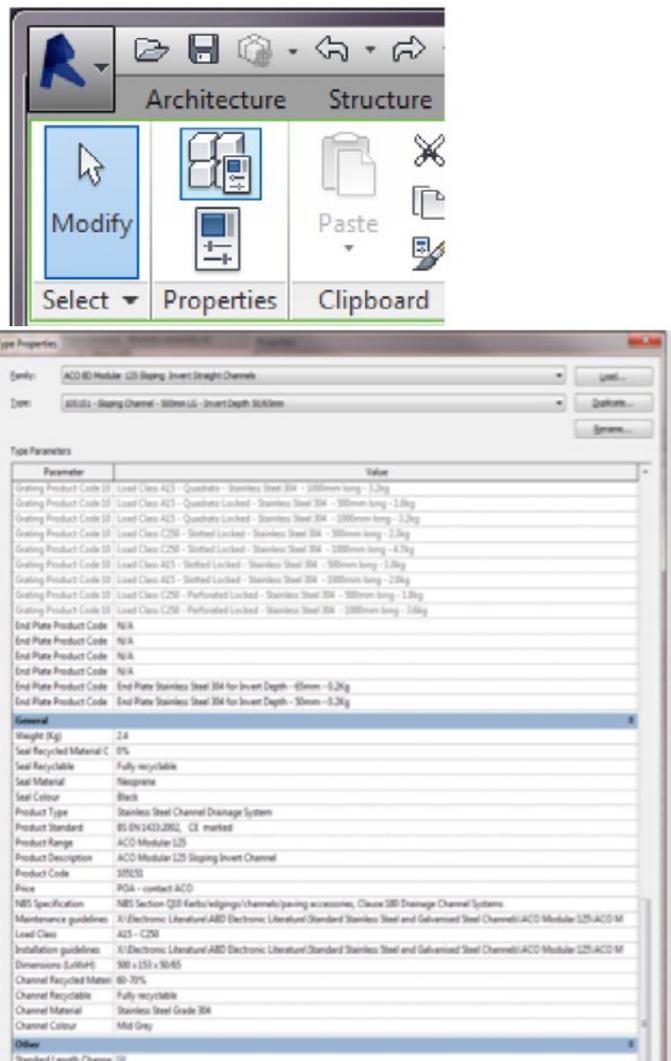


▶ Type properties

The ACO Modular 125 file has a collection of useful information embedded with it, including site installation and operations and maintenance details.

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

1. To access the information within a component, simply select the item and click the “Type Properties” icon on the Revit ribbon at the top of the dialogue.
2. The “Type Properties” information screen will now display. Simply scroll up and down the screen to find the information you require.



▶ Material library

The ACO Modular 125 file contains materials that are already pre-loaded into the components. When loading the ACO Modular 125 file into your project the pre-loaded materials will automatically transfer through.

▶ Other notes

You can add ACO Modular 125 systems to your company template file. They will then be available without the need to load them when starting a new project.

The ACO Modular 125 families have been created in Revit 2014.