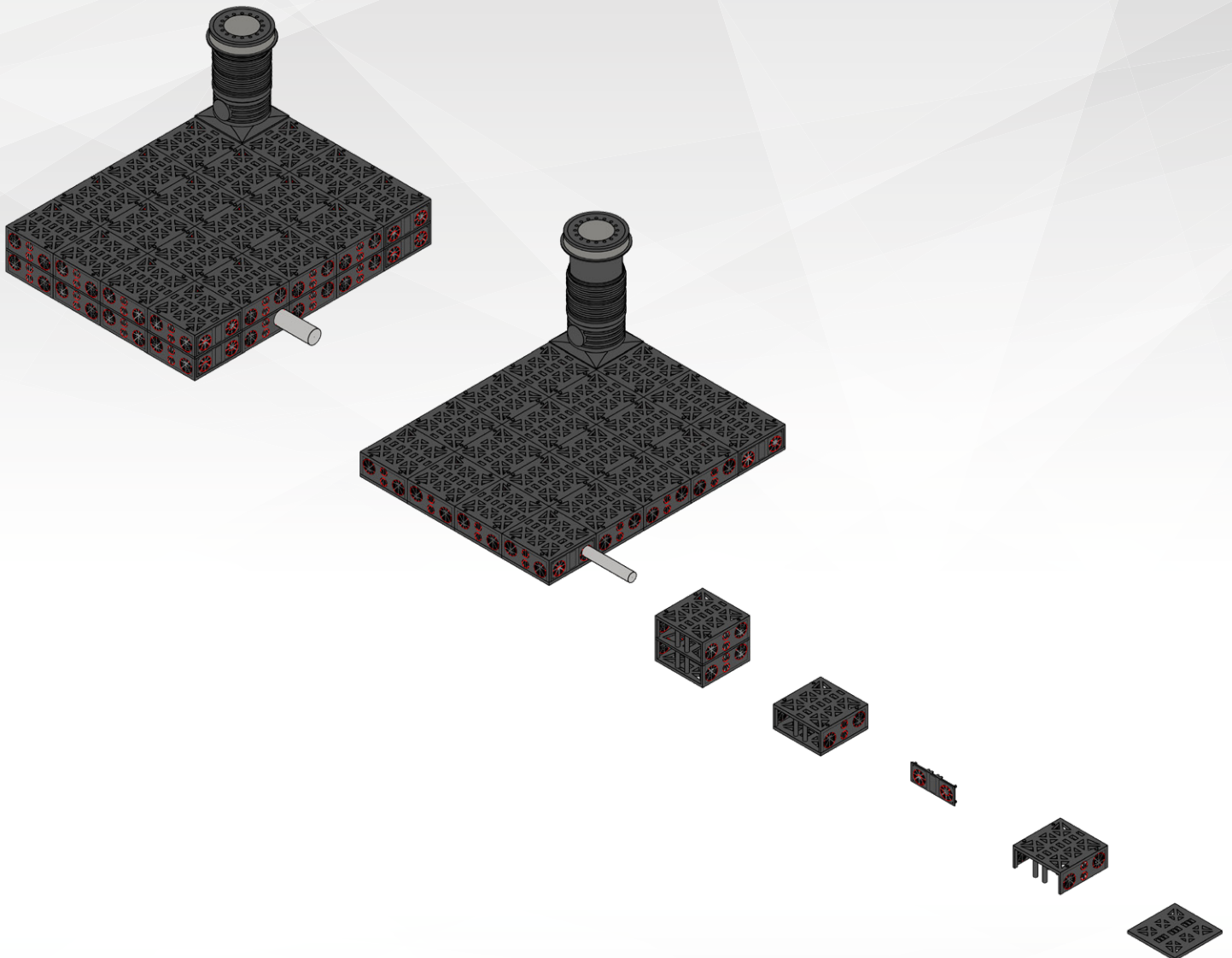




# Revit Families

MANUAL HANDLING  
DRAINAGE SYSTEM ECOBLOC  
INSPECT 420-230-FLEX



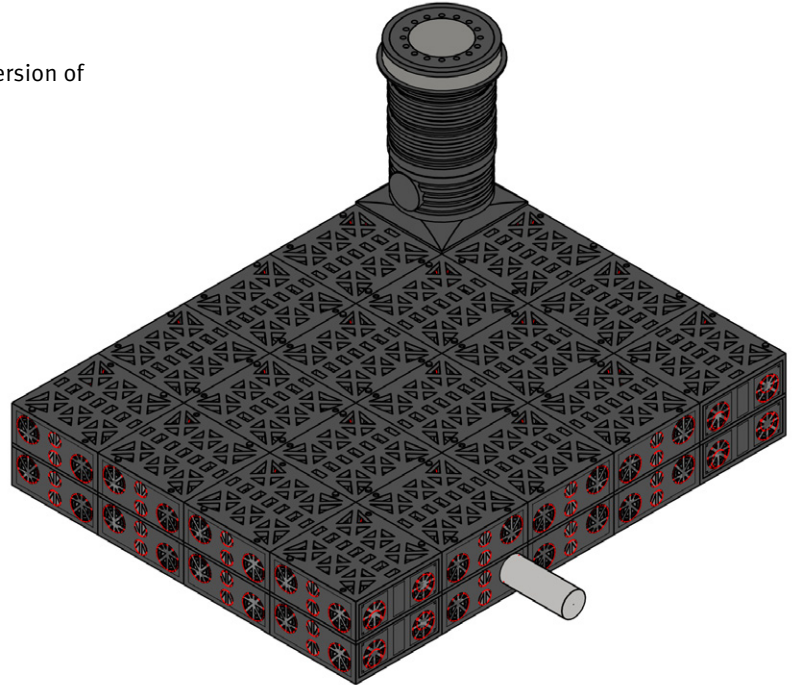
# GENERAL

## REVIT Drainage System EcoBloc Inspect 420–230–flex

**ATTENTION: PLEASE ALWAYS FOLLOW THE INSTALLATION INSTRUCTIONS WHEN ASSEMBLING!**

### Revit Version

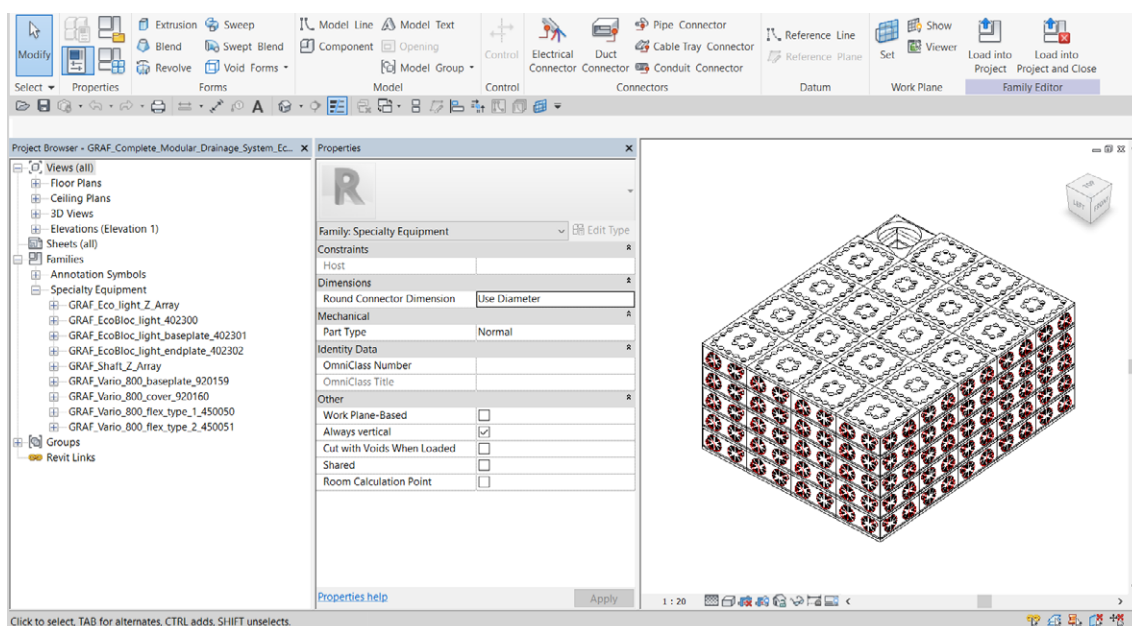
The GRAF Revit Families are created in the english version of Revit 2018.



### Revit Family

The Revit family GRAF\_Complete\_Modular\_Drainage\_System\_EcoBloc\_Inspect\_420.rfa contains all families to build a complete drainage system with the EcoBloc 420 series. The nested families are defined as shared families, so that the single part of the drainage system appears in the schedule of a project. All families are created on the Revit category Specialty Equipment.

The Drainage System family can be edited directly in the family editor, i.e. in terms of the dimensions. Then the family can be saved under a new name and can be loaded into a project.



The family in the family editor environment with the nested families displayed in the project browser

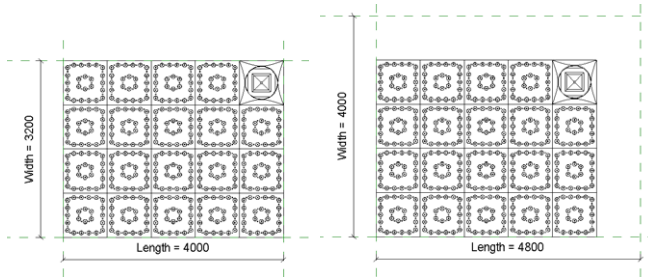
# CUSTOMIZING THE FAMILY


REVIT Drainage System EcoBloc Inspect 420–230–flex



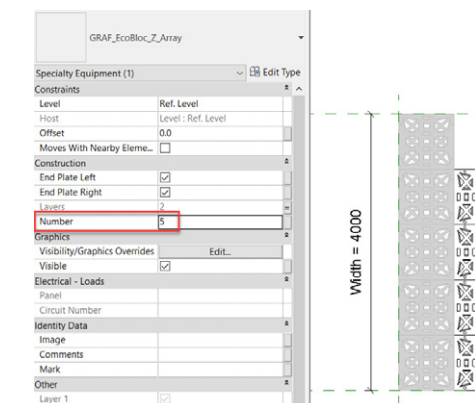
## Dimensions

In the sample below, the family is changed from a 3200 x 4000 dimension with 2 layers to a 4000 x 4800 dimension with 4 layers.

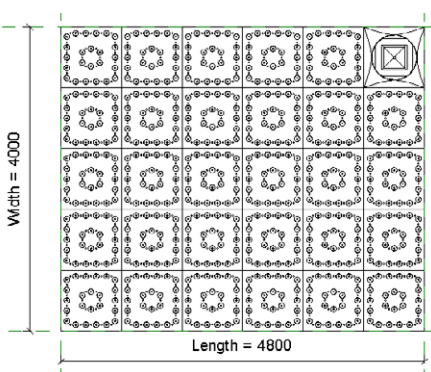


- ➔ From the menu, run the  Family Types button
- ➔ In the Family Types dialog, adjust the dimensions for Width and Length. Note that the dimensions of the reference planes are changed in plan view.

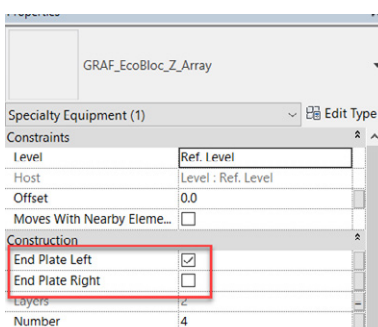
## Adding items to the EcoBloc Layout



Select each nested family in the drawing area and adjust the Number value in the Properties dialog according the dimensions.



- ➔ Move the Shaft family to the desired position.
- ➔ It's recommended to move the existing outer families to the reference planes and fill up spaces with copied families. The rows placed in the families have already the correct visibility settings for the end plates

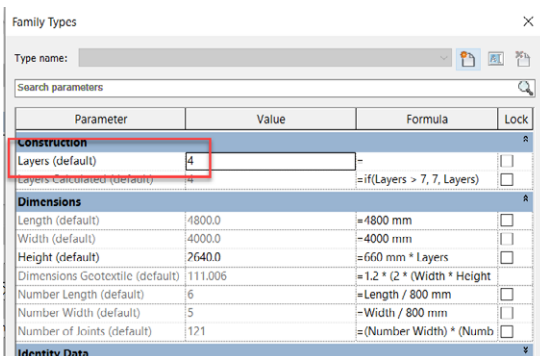


For individual layouts, control the correct settings for End Plate Left and End Plate Right.

# CUSTOMIZING THE FAMILY

## REVIT Drainage System EcoBloc Inspect 420–230–flex

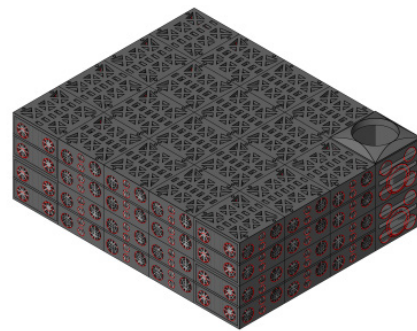
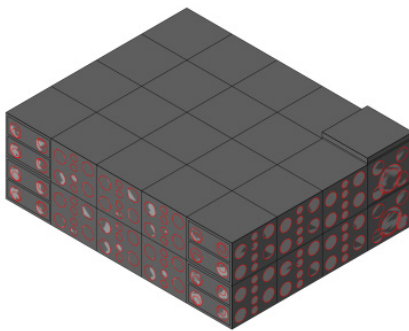
### Adding EcoBloc Layers



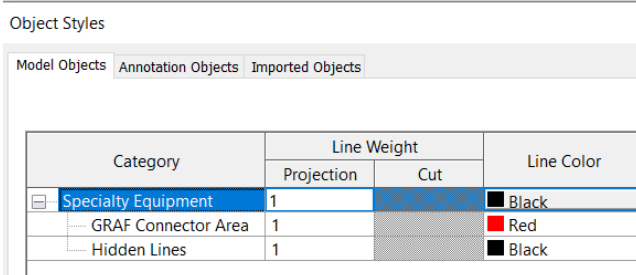
- ➔ The number of layers can be changed in the Family Types dialog.
- ➔ Save the family under a different name and load the family into a project.

### Detail Levels

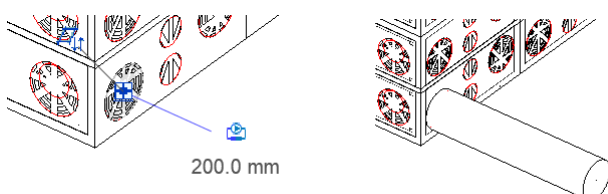
The family in detail level Coarse and Fine.



### Connecting Pipes



The red circles illustrate the connection areas for the pipes. They are placed on a subcategory “GRAF Connection Area” and can be switched of in a project for selected views.



In the project, place the family GRAF\_Connector\_Element to any of the red connection area. Use the Center snap for an exact placement. The family contains the Revit Connector element to place pipes.

## CUSTOMIZING THE FAMILY

## REVIT Drainage System EcoBloc Inspect 420-230-flex


## Schedules

A	B	C	D	E
Count	Family	Type	Article Number	Material Description
	GRAF_Complete_Modular_Drainage_Syst	GRAF_Complete_M		
	GRAF_Connector_Element	DN 200		
1	GRAF_EcoBloc_Inspcet_420_402000	GRAF_EcoBloc_Insp402000		PP
1	GRAF_EcoBloc_Inspcet_420_402000	GRAF_EcoBloc_Insp402000		PP
1	GRAF_EcoBloc_Inspcet_420_402000	GRAF_EcoBloc_Insp402000		PP
1	GRAF_EcoBloc_Inspcet_420_402000	GRAF_EcoBloc_Insp402000		PP
1	GRAF_FrcnBloc_Inspcet_470_407000	GRAF_FrcnBloc_Insp407000		PP
1	GRAF_EcoBloc_Inspcet_420_402000	GRAF_EcoBloc_Insp402000		PP
1	GRAF_EcoBloc_Inspcet_420_402000	GRAF_EcoBloc_Insp402000		PP
1	GRAF_EcoBloc_Inspcet_420_402000	GRAF_CcxDIoc_Inspct402000		PP
1	GRAF_EcoBloc_Inspcet_420_402000	GRAF_EcoBloc_Insp402000		PP
1	GRAF_EcuBLoc_Inspcet_420_402000	GRAF_EcuBLoc_Insp402000		PP
1	GRAF_EcoBloc_Inspcet_420_402000	GRAF_EcoBloc_Insp402000		PP
1	GRAF_FrcnBloc_Inspcet_470_407000	GRAF_FrcnBloc_Insp407000		PP
1	GRAF_EcoBloc_Inspcet_420_402000	GRAF_EcoBloc_Insp402000		PP
1	GRAF_EcoBloc_Inspcet_420_402000	GRAF_EcoBloc_Insp402000		PP
1	GRAF_EcoBloc_Inspcet_420_402000	GRAF_CcxDIoc_Inspct402000		PP
1	GRAF_EcoBloc_Inspcet_420_402000	GRAF_CcxDIoc_Inspct402000		PP
1	GRAF_EcoBloc_Inspcet_420_402000	GRAF_EcoBloc_Insp402000		PP

Copy & Paste the schedule from the GRAF Retention project to your project. The single parts of the drainage system are listed.

## Properties

Properties



GRAF\_Complete\_Modular\_Drainage\_System\_EcoBl  
oc\_Inspect\_420

Specialty Equipment (1)

Edit Type

Constraints

Level	Level 1
Host	Level : Level 1
Offset	0.0
Moves With Nearby Elements	<input type="checkbox"/>

Construction

Layers	4
Layers Calculated	4

Electrical - Loads

Panel	
Circuit Number	

Dimensions

Length	4800.0
Width	4000.0
Height	2640.0
Dimensions Geotextile	111.006 m <sup>2</sup>
Number Length	6
Number Width	5
Number of Joints	121

Identify Data

The drainage module calculates and schedules also the Geotextile dimensions and the number of joints.

## ACCESSORIES

You will find a variety of suitable accessories in the Stormwater Management Accessories file.





For more information about our Stormwater Management, Rainwater Harvesting or Wastewater Treatment, ask for our technical catalogue.

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