

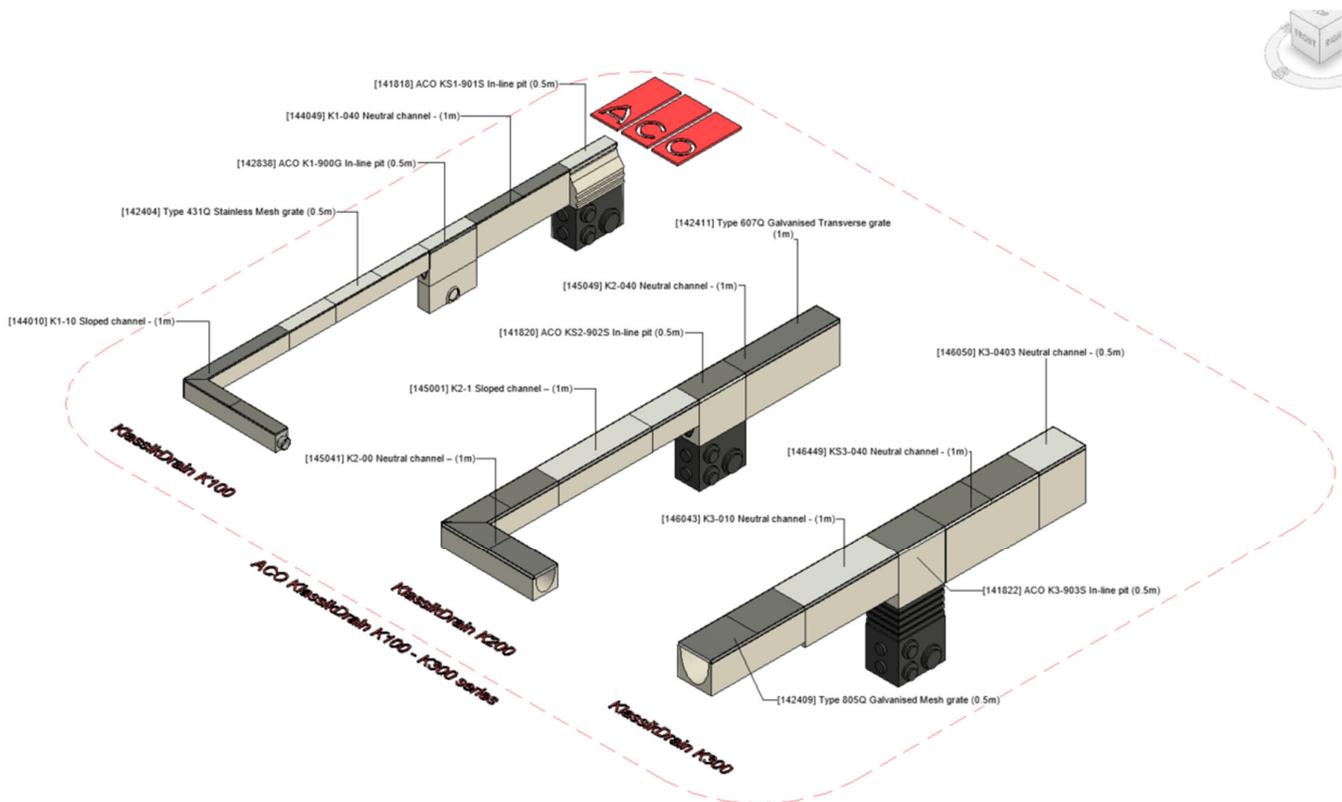
ACO_KlassikDrain_K100 - K300_series_AUS

User Guide for Autodesk Revit files

ACO KlassikDrain K100 – K300 Packages

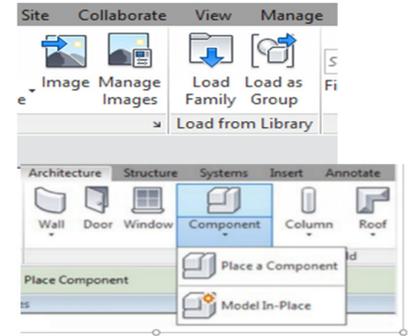
This project includes the following Revit families along with accessories.

1. PF_ST_KlassikDrain_K100 & KS100_channels_AUS_ACO.rfa
2. PF_ST_KlassikDrain_K200 & KS200_channels_AUS_ACO.rfa
3. PF_ST_KlassikDrain_K300 & KS300_channels_AUS_ACO.rfa
4. KlassikDrain_K1-900G_In-line_pit
5. KlassikDrain_K1-901G_In-line_pit
6. KlassikDrain_K2-902G_In-line_pit
7. KlassikDrain_K3-903 In-line pit (0.5m)



Loading ACO KlassikDrain K100 – K300 into the project:

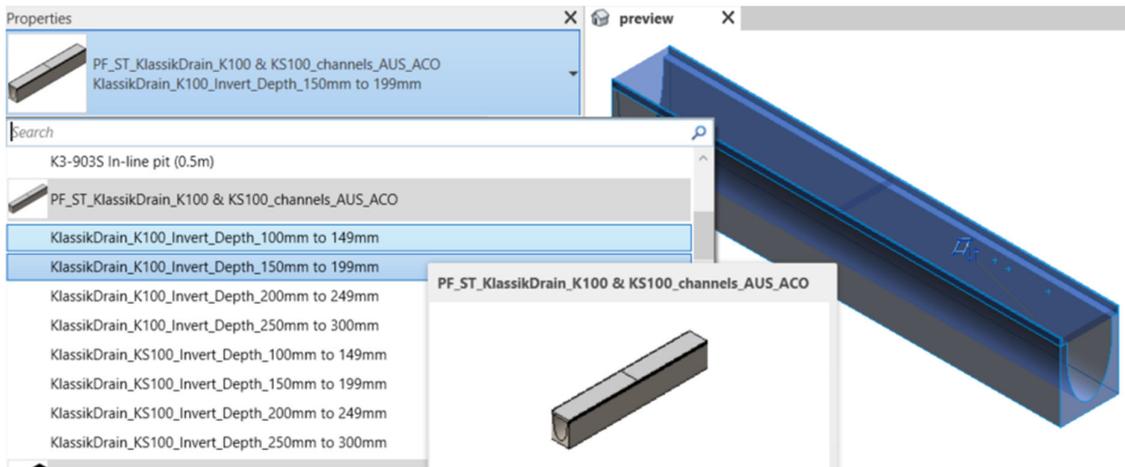
1. Download the **ACO_KlassikDrain_K100 - K300_series** project file and save it to a suitable location.
2. Select any one of the family **K100 – K300** from **ACO_KlassikDrain_K100 - K300_series** load to your project.
3. Navigate to the “Insert” icon on the Revit ribbon and click “Load Family”
4. The file can now be placed into your project. Navigate to the “Architecture/Component” icons on the Revit ribbon and click “Place a Component”



Placing of families

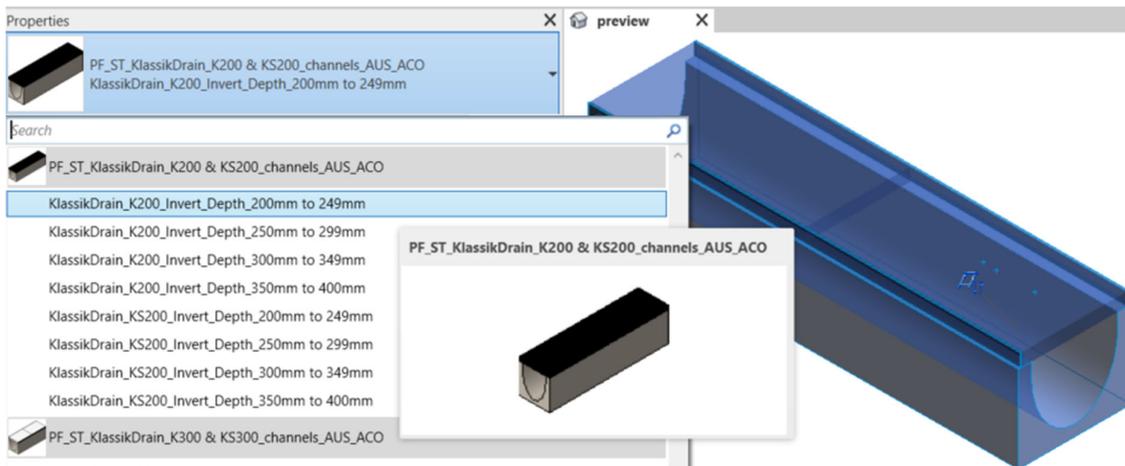
For K100/KS100 channels

1. Click on the model – At properties tool bar, it will display family name and types.
2. **PF_ST_KlassikDrain_K100 & KS100_channels_AUS_ACO.rfa** family consists of different **Invert Depths** from KlassikDrain_K100_Invert_Depth_100mm to 149mm up to KlassikDrain_KS100_Invert_Depth_250mm to 300mm Channels including (K100 Galvanized) and (KS100 Stainless-steel) edge rail user must select the appropriate family type from the “Properties” drop down menu.



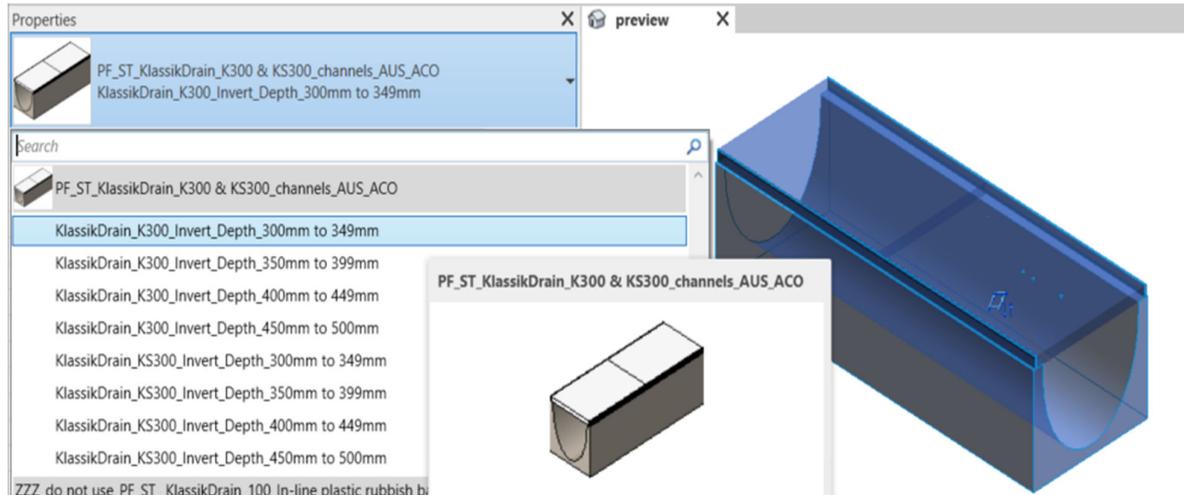
Similarly, For K200/KS200

1. Click on the model – At properties tool bar, it will display family name and types.
2. **PF_ST_KlassikDrain_K200 & KS200_channels_AUS_ACO.rfa** family consists of different **Invert Depths** from KlassikDrain_K200_Invert_Depth_200mm to 249mm up to KlassikDrain_KS200_Invert_Depth_350mm to 400mm Channels including (K200 Galvanized) and (KS200 Stainless-steel) edge rail user must select the appropriate family type from the “Properties” drop down menu.



Similarly, For K300/KS300

1. Click on the model – At properties tool bar, it will display family name and types.
2. **PF_ST_KlassikDrain_K300 & KS300_channels_AUS_ACO.rfa** family consists of different **Invert Depths** from KlassikDrain_K300_Invert_Depth_300mm to 349mm up to KlassikDrain_KS300_Invert_Depth_450mm to 500mm Channels including (K300 Galvanized) and (KS300 Stainless-steel) edge rail user must select the appropriate family type from the “Properties” drop down menu.

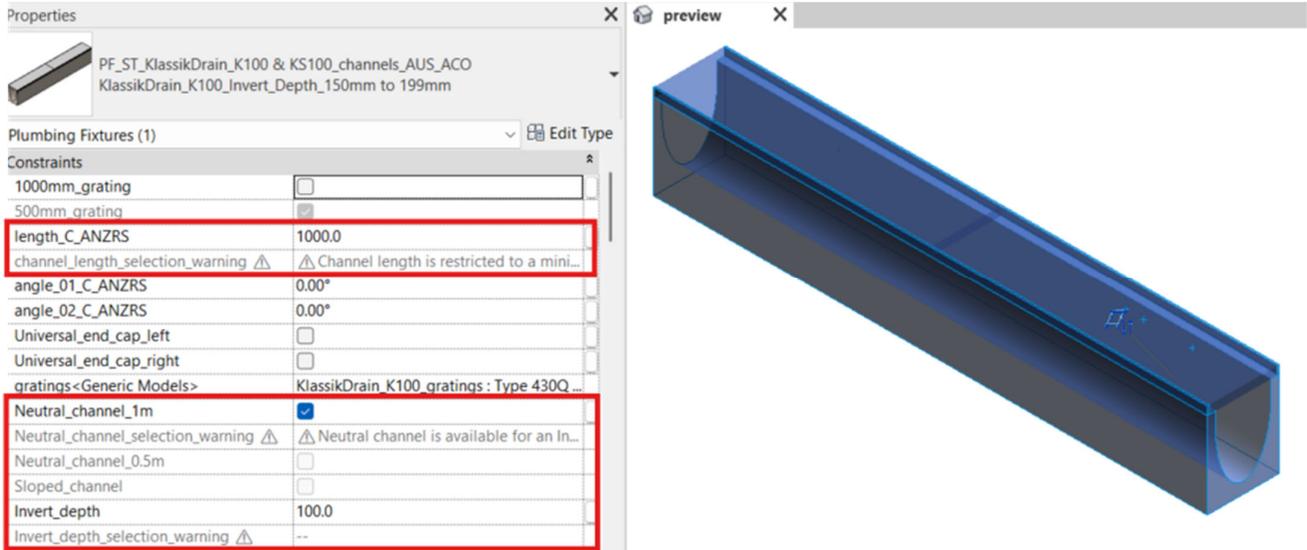


Selection of Channels:

For K100/KS100 channels

1. Click on the model – At properties tool bar, it will display family name and types.
2. **PF_ST_KlassikDrain_K100 & KS100_channels_AUS_ACO.rfa** The family includes various invert depths, ranging from **KlassikDrain_K100_Invert_Depth_100mm-149mm** up to **KlassikDrain_KS100_Invert_Depth_250mm-300mm**, and supports both **K100 Galvanized** and **KS100 Stainless-Steel Edge Rail** channels. The user must select the appropriate family type from the **Properties** drop-down menu. Based on this selection, two channel options are available: **Neutral** and **Sloped**.
3. To specify a **Neutral channel_1m length**, enable the **Neutral channel_1m** checkbox.
 - To specify a **Neutral channel_0.5 m length**, enable the **Neutral channel_1m** checkbox and then enter **500 mm** or less than **500 mm** in the **length_C_ANZRS** parameter.
 - To specify a **Sloped channel_1m length**, leave the **Neutral channel_1m** checkbox unchecked.
4. After choosing the channel type, the user must then enter the required invert depth value in the **Invert Depth** parameter, corresponding to the invert depth selected in the family type.
5. **Neutral channel selection warning note !:** This warning appears when a neutral channel is selected. It indicates the available neutral channel depths, and the user must enter these values according to the invert depth chosen in the family type from the **Properties** drop-down menu.
6. **Sloped channel selection warning note !:** This warning appears when a sloped channel is selected. It indicates the available sloped channel depths, and the user must enter the values according to the invert depth chosen in the family type from the **Properties** drop-down menu.
7. **Channel length selection warning note !:** This warning always appears. Users can specify any channel length between the minimum of **280 mm** and the maximum of **1000 mm** by entering the desired value in the **length_C_ANZRS** parameter.

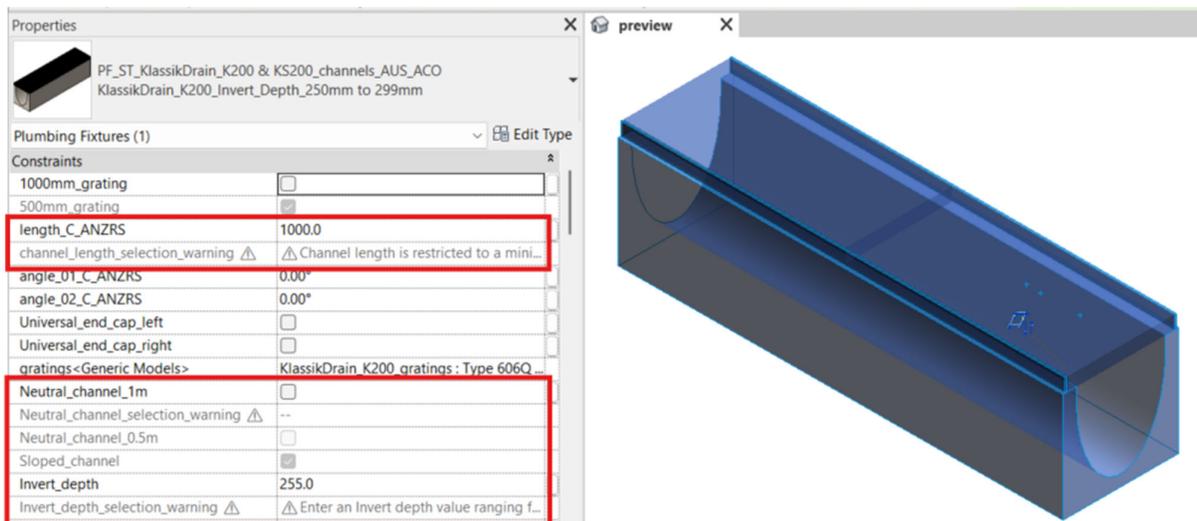
Note: If the user enters a value less than 280 mm or greater than 1000 mm, a constraints error will be displayed.



Similarly, For K200/KS200 channels

1. Click on the model – At properties tool bar, it will display family name and types.
2. **PF_ST_KlassikDrain_K200 & KS200_channels_AUS_ACO.rfa** The family includes various invert depths, ranging from **KlassikDrain_K200 Invert_Depth_200mm-249mm** up to **KlassikDrain_KS200 Invert_Depth_350mm-400mm**, and supports both **K200 Galvanized** and **KS200 Stainless-Steel Edge Rail** channels. The user must select the appropriate family type from the **Properties** drop-down menu. Based on this selection, two channel options are available: **Neutral** and **Sloped**.
3. To specify a **Neutral channel_1m** length, enable the **Neutral channel_1m** checkbox.
 - To specify a **Neutral channel_0.5 m** length, enable the **Neutral channel_1m** checkbox and then enter **500 mm** or less than **500 mm** in the **length_C_ANZRS** parameter.
 - To specify a **Sloped channel_1m** length, leave the **Neutral channel_1m** checkbox unchecked.
4. After choosing the channel type, the user must then enter the required invert depth value in the **Invert Depth** parameter, corresponding to the invert depth selected in the family type.
5. **Neutral channel selection warning note !:** This warning appears when a neutral channel is selected. It indicates the available neutral channel depths, and the user must enter these values according to the invert depth chosen in the family type from the **Properties** drop-down menu.
6. **Sloped channel selection warning note !:** This warning appears when a sloped channel is selected. It indicates the available sloped channel depths, and the user must enter the values according to the invert depth chosen in the family type from the **Properties** drop-down menu.
7. **Channel length selection warning note !:** This warning always appears. Users can specify any channel length between the minimum of **498 mm** and the maximum of **1000 mm** by entering the desired value in the **length_C_ANZRS** parameter.

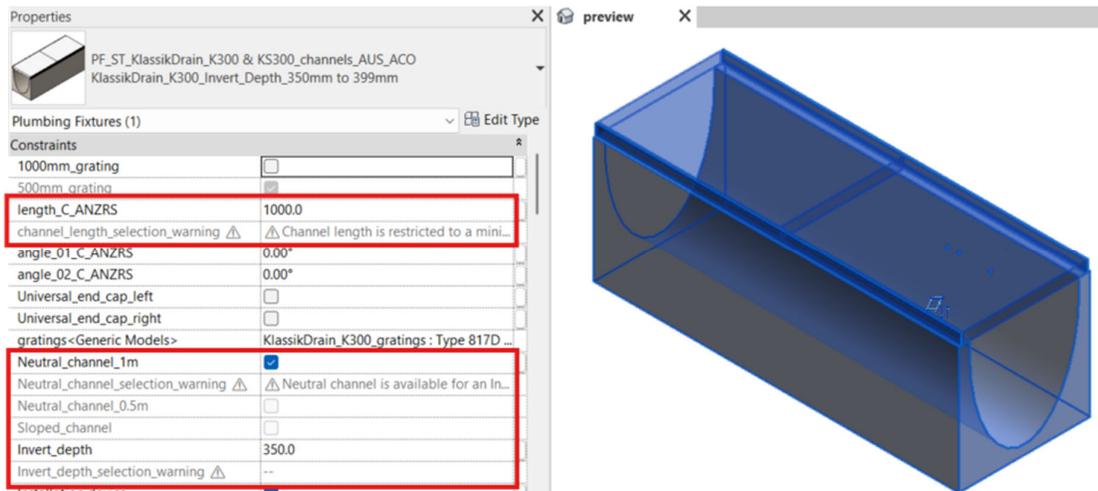
Note: If the user enters a value less than 498 mm or greater than 1000 mm, a constraints error will be displayed.



Similarly, For K300/KS300 channels

1. Click on the model – At properties tool bar, it will display family name and types.
2. **PF_ST_KlassikDrain_K300 & KS300_channels_AUS_ACO.rfa** The family includes various invert depths, ranging from **KlassikDrain_K300_Invert_Depth_300mm-349mm** up to **KlassikDrain_KS300_Invert_Depth_450mm-500mm**, and supports both **K300 Galvanized** and **KS300 Stainless-Steel Edge Rail** channels.
The user must select the appropriate family type from the **Properties** drop-down menu. Based on this selection, two channel options are available: **Neutral** and **Sloped**.
3. To specify a **Neutral channel_1m length**, enable the **Neutral channel_1m** checkbox.
To specify a **Neutral channel_0.5 m length**, enable the **Neutral channel_1m** checkbox and then enter **500 mm** or less than **500 mm** in the **length_C_ANZRS** parameter.
To specify a **Sloped channel_1m length**, leave the **Neutral channel_1m** checkbox unchecked.
4. After choosing the channel type, the user must then enter the required invert depth value in the **Invert Depth** parameter, corresponding to the invert depth selected in the family type.
5. **Neutral channel selection warning note !:**
This warning appears when a neutral channel is selected. It indicates the available neutral channel depths, and the user must enter these values according to the invert depth chosen in the family type from the **Properties** drop-down menu.
6. **Sloped channel selection warning note !:**
This warning appears when a sloped channel is selected. It indicates the available sloped channel depths, and the user must enter the values according to the invert depth chosen in the family type from the **Properties** drop-down menu.
7. **Channel length selection warning note !:**
This warning always appears. Users can specify any channel length between the minimum of **500 mm** and the maximum of **1000 mm** by entering the desired value in the **length_C_ANZRS** parameter.

Note: If the user enters a value less than 500 mm or greater than 1000 mm, a constraints error will be displayed.

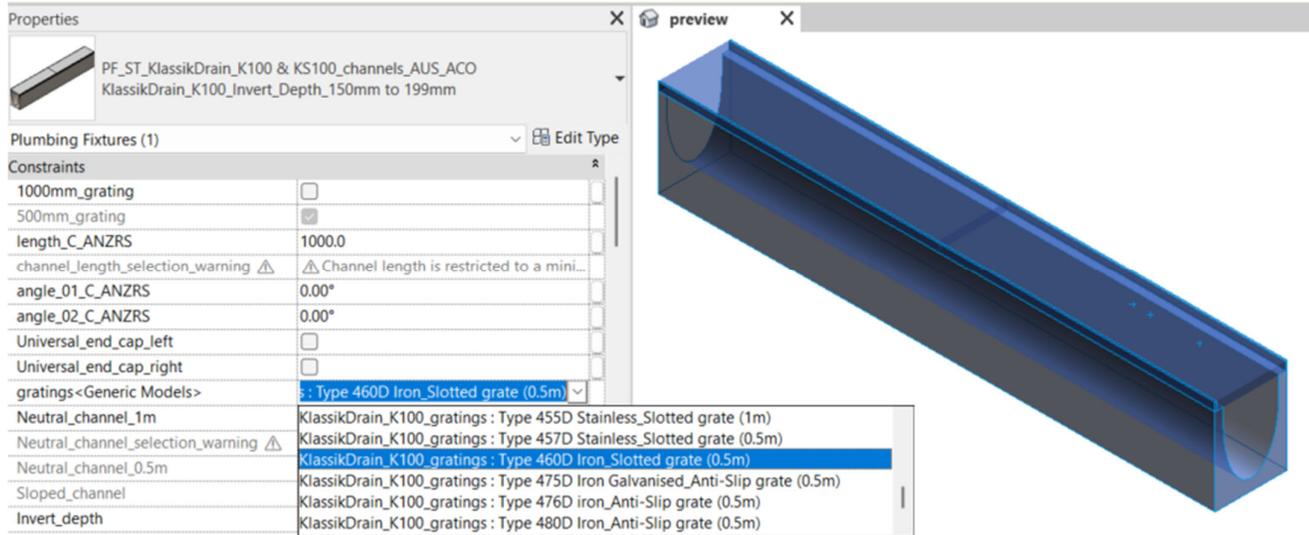


Selection of Gratings for Channels:

For K100/KS100 channels

Click on the model – At properties tool bar, it will display gratings<Generic models> click on the Down arrow for selecting three different gratings Including Brickslot and select the appropriate gratings for the channel.

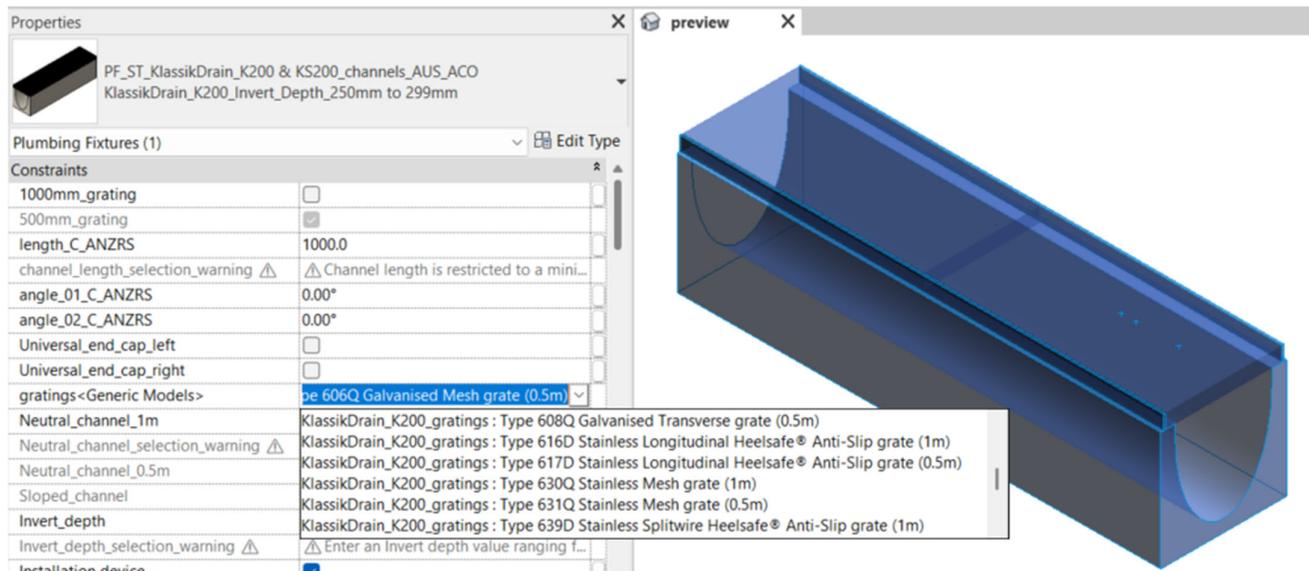
According to the requirement the user can select either 500mm_grating or 1000mm_grating.



Similarly, For K200/KS200 channels

Click on the model – At properties tool bar, it will display gratings<Generic models> click on the Down arrow for selecting three different gratings Including Brickslot and select the appropriate gratings for the channel.

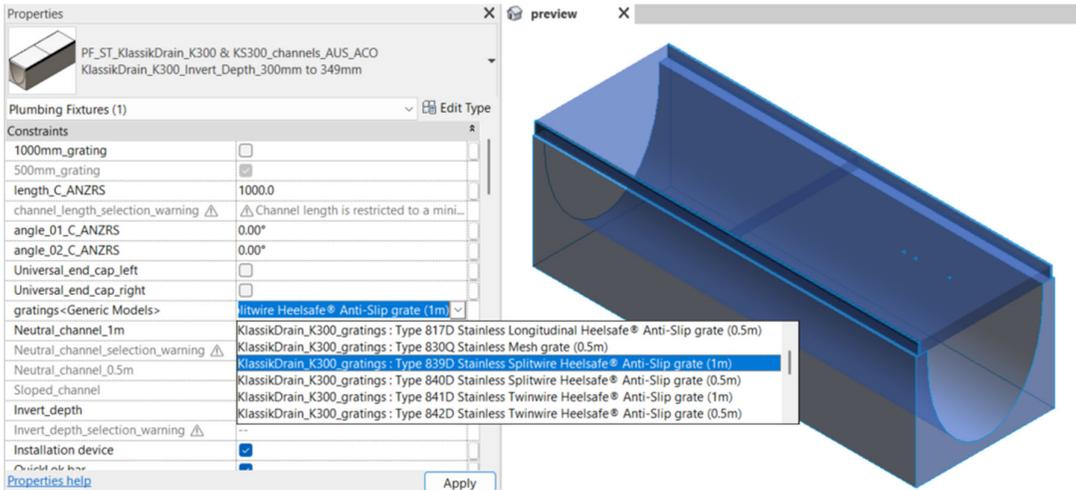
According to the requirement the user can select either 500mm_grating or 1000mm_grating.



Similarly, For K300/KS300 channels

Click on the model – At properties tool bar, it will display gratings<Generic models> click on the Down arrow for selecting three different gratings select the appropriate gratings for the channels.

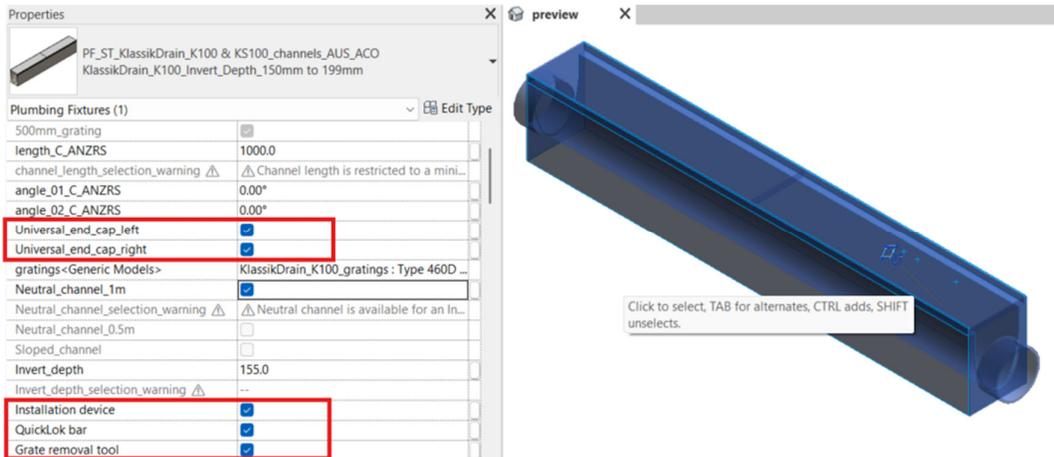
According to the requirement the user can select either 500mm_grating or 1000mm_grating.



Selection of Accessories for Channels:

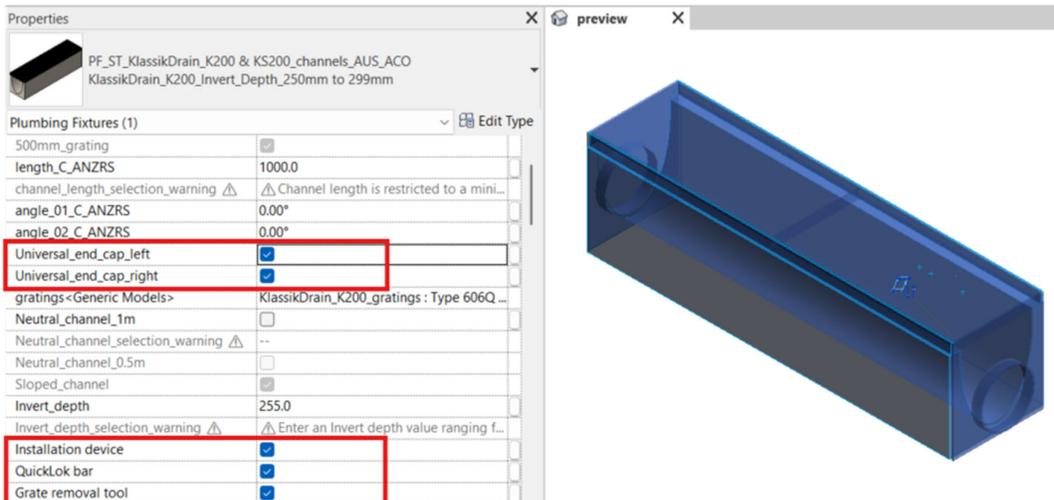
For K100/KS100 channels

Click on the model, at properties tool bar, it will display a list of accessories such as Universal endcaps, Installation device, Grate removal tool, QuickLok locking bar. If user needs Accessories just select by checking the tick box, if don't just uncheck the list as shown below.



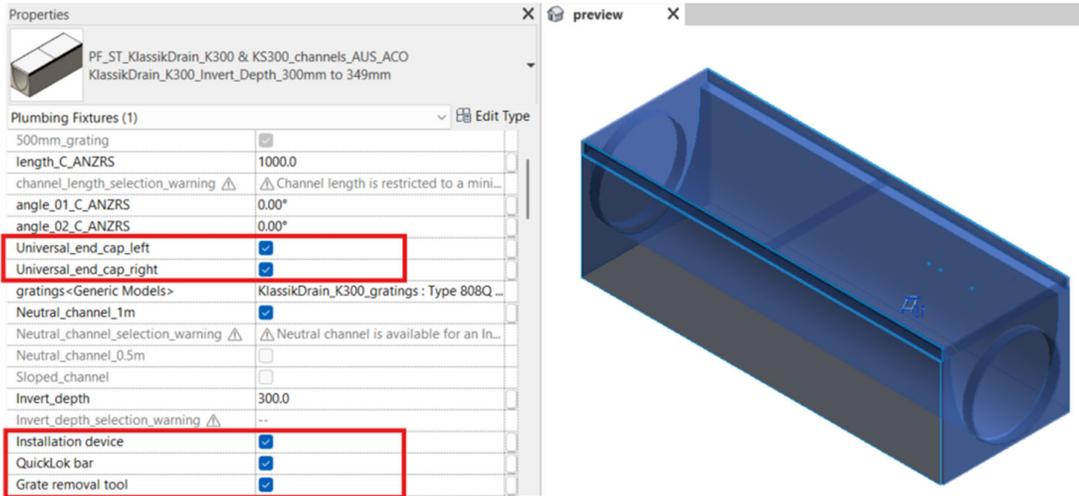
Similarly, For K200/KS200 channels

Click on the model, at properties tool bar, it will display a list of accessories such as Universal endcaps, Installation device, Grate removal tool, QuickLok locking bar. If user needs Accessories just select by checking the tick box, if don't just uncheck the list as shown below.



Similarly, For K300/KS300 channels

Click on the model, at properties tool bar, it will display a list of accessories such as Universal endcaps, Installation device, Grate removal tool, QuickLok locking bar. If user needs Accessories just select by checking the tick box, if don't just uncheck the list as shown below.

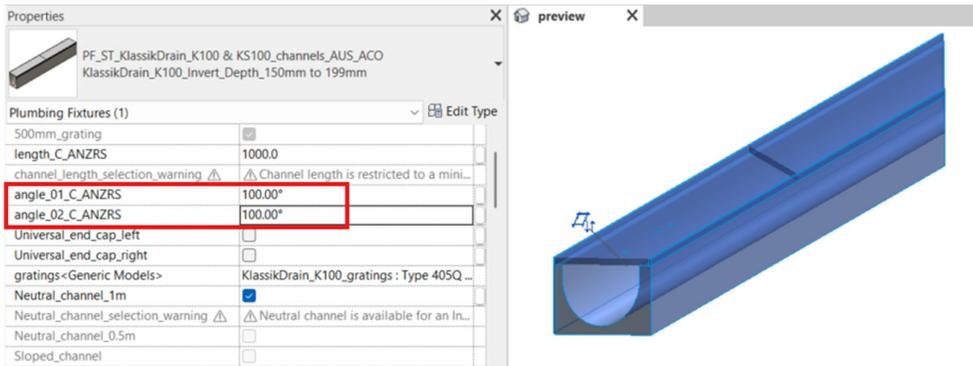


For Angular cut:

For K100/KS100 channels

Click on the model – At properties tool bar, it will display two angles such as angle_01_C_ANZRS (left side) and angle_02_C_ANZRS (right side). We can enter the corresponding angles to make the angular cut on the channels.

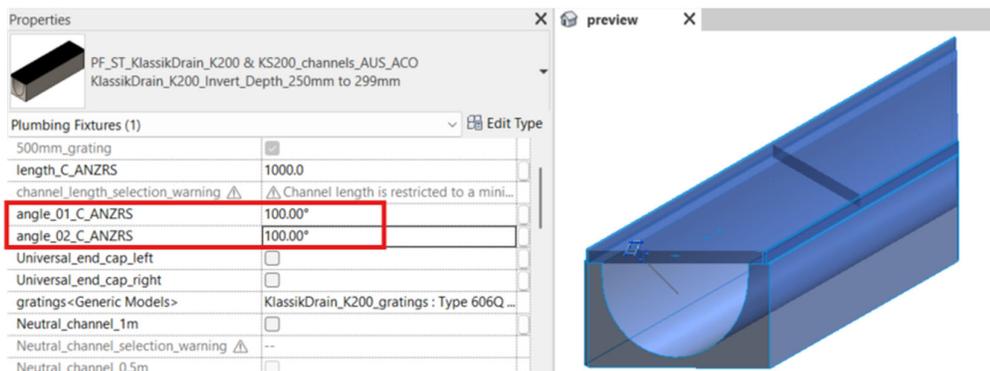
Note: While using Endcaps make sure that angular value should be as zero.



For K200/KS200 channels

Click on the model – At properties tool bar, it will display two angles such as angle_01_C_ANZRS (left side) and angle_02_C_ANZRS (right side). We can enter the corresponding angles to make the angular cut on the channels.

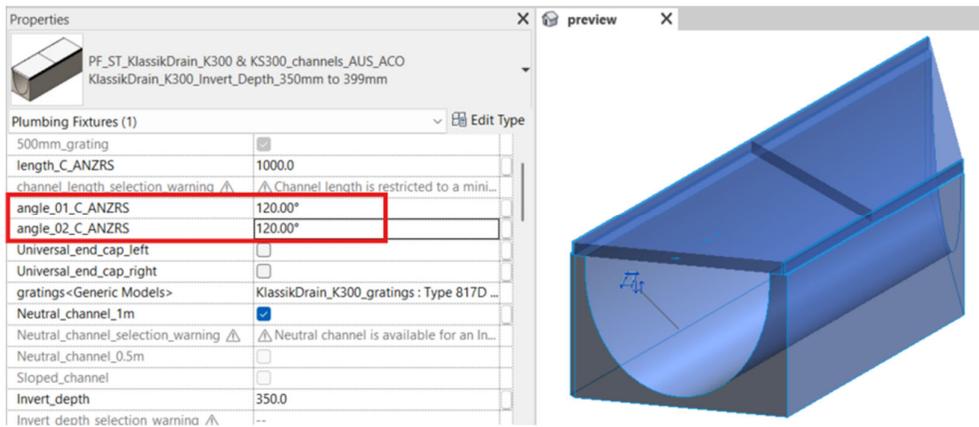
Note: While using Endcaps make sure that angular value should be as zero.



For K300/KS300 channels

Click on the model – At properties tool bar, it will display two angles such as **angle_01_C_ANZRS** (left side) and **angle_02_C_ANZRS** (right side). We can enter the corresponding angles to make the angular cut on the channels.

Note: While using Endcaps make sure that angular value should be as zero.



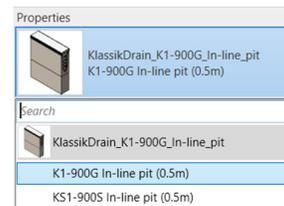
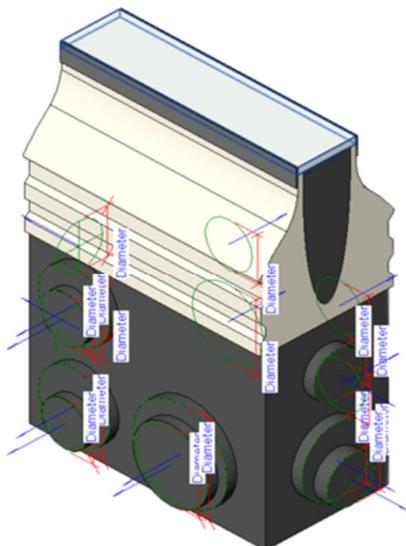
Selection of In-line pit:

KlassikDrain K100 in-line pit

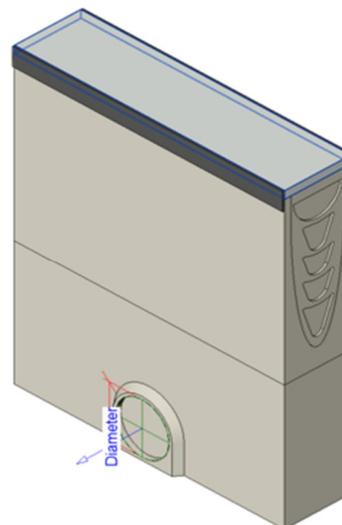
1. Click on the model – At properties tool bar, it will display family name and types.
2. **K1-901 In-line pit (0.5m). rfa** and **K1-900 In-line pit (0.5m). rfa** family consists of different edge rail Galvanized, and Stainless-steel edge rail user must select the appropriate family type from the “Properties” drop down menu.



K1-901G/KS1-901S

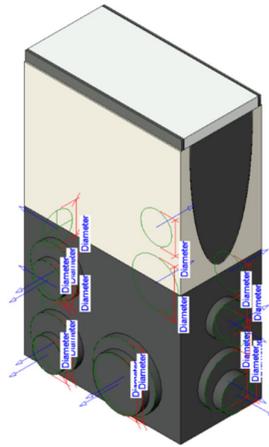
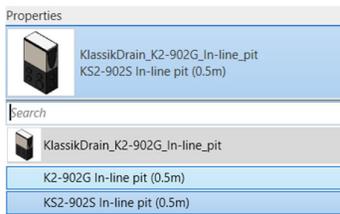


K1-900G/KS1-900S



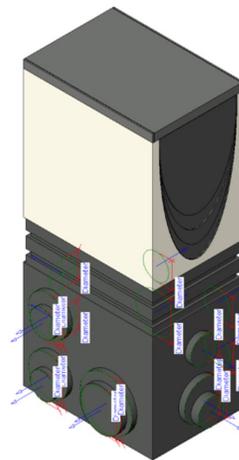
KlassikDrain K200 in-line pit

1. Click on the model – At properties tool bar, it will display family name and types.
2. **K2-902 In-line pit (0.5m). rfa** family consists of different edge rail Galvanized, and Stainless-steel edge rail user must select the appropriate family type from the “Properties” drop down menu



KlassikDrain K3-903 In-line pit (0.5m)

1. Click on the model – At properties tool bar, it will display family name and types.
2. **K3-903 In-line pit (0.5m).rfa** family consists of different edge rail Galvanized, and Stainless-steel edge rail user must select the appropriate family type from the “Properties” drop down menu

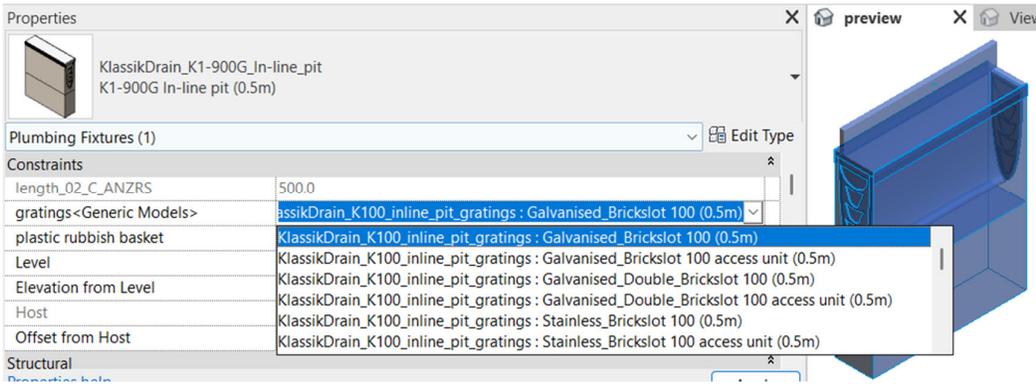


Selection of Gratings for In-line pit

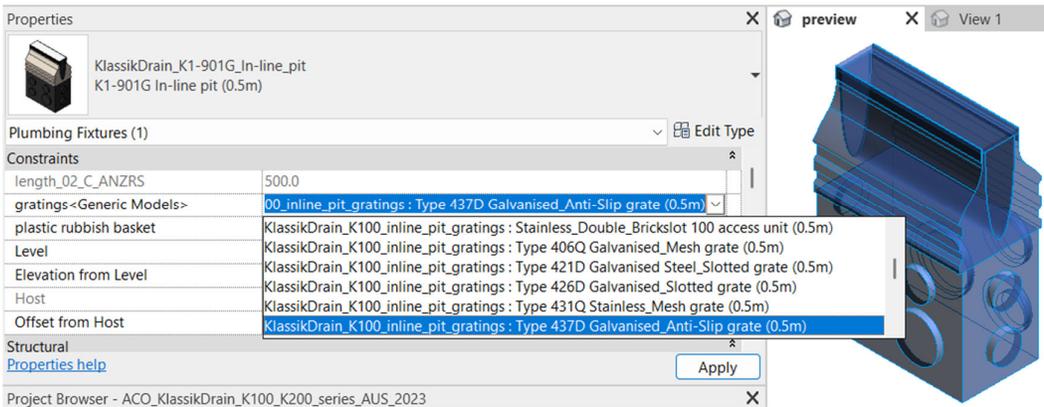
KlassikDrain K100 in-line pit

K1-900 In-line pit (0.5m)

Click on the model – At properties tool bar, it will display gratings<Generic models> click on the Down arrow for selecting three different gratings Including Brickslot and select the appropriate gratings for the channel



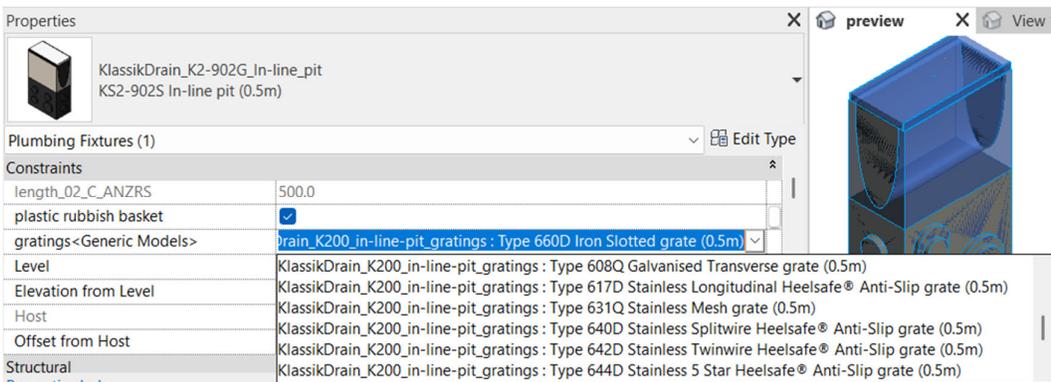
K1-901 In-line pit (0.5m)



KlassikDrain K200 in-line pit

K2-902 In-line pit (0.5m)

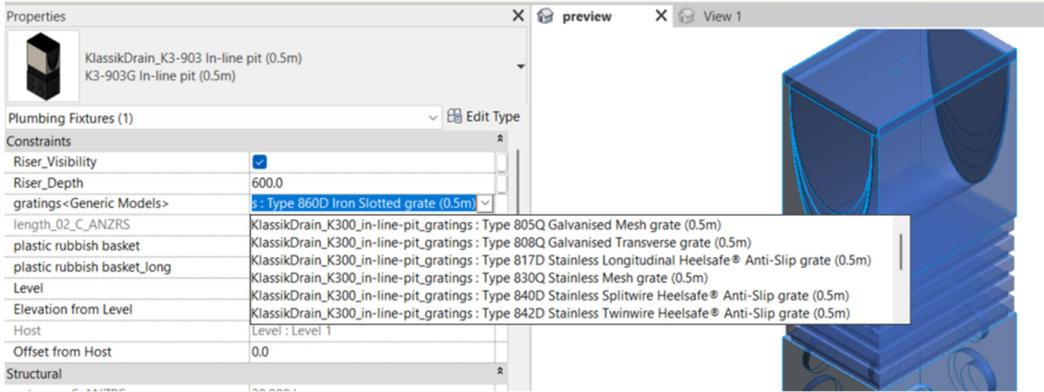
Click on the model – At properties tool bar, it will display gratings<Generic models> click on the Down arrow for selecting three different gratings Including Brickslot and select the appropriate gratings for the channel



KlassikDrain K300 in-line pit

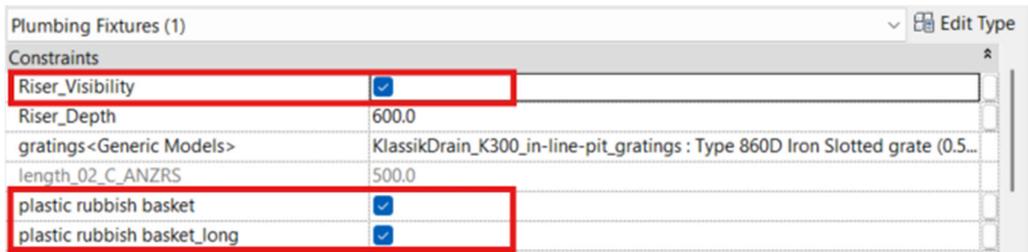
K3-903 In-line pit (0.5m)

Click on the model – At properties tool bar, it will display gratings<Generic models> click on the Down arrow for selecting three different gratings select the appropriate gratings for the channel.



Selection of Accessories for In-line pit:

Click on the model, at properties tool bar, it will display a list of accessories such as Riser_Visibility, plastic rubbish basket, plastic rubbish basket_long. If user needs Accessories just select by checking the tick box, if don't just uncheck the list as shown below.



Material Library:

The ACO Klassikdrain_K100 - K300 files contain materials that are already pre-loaded into the components. When loading the ACO Klassikdrain_K100 - K300 files into your project the pre-loaded materials will automatically transfer through.

Schedules and quantities:

The information such as Article numbers, Descriptions, net mass, URL, Manufacturer, Product range, etc. within the parameters is stored as “shared Parameters” so can easily be appeared when creating a schedule and quantities in the project environment.

| ACO KlassikDrain K100 - K300 series> | | | | | | | |
|--------------------------------------|-------------------------------|--|------------------|-----------------------------------|--------------|--------------|-------------------|
| A | B | C | D | E | F | G | H |
| Count | code_supplier_article_C_ANZRS | item_description | net_mass_S_ANZRS | URL | Manufacturer | productrange | OmniClass Title |
| 1 | 142838 | ACO K1-900G In-line pit (0.5m) | 29.50 kg | https://acodrain.com.au/products/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 141818 | ACO KS1-901S In-line pit (0.5m) | 23.90 kg | https://acodrain.com.au/products/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 141820 | ACO KS2-902S In-line pit (0.5m) | 30.80 kg | https://acodrain.com.au/products/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 141821 | ACO K3-903G In-line pit (0.5m) | 39.90 kg | https://acodrain.com.au/products/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 144010 | K1-10 Sloped channel - (1m) | 16.00 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 144011 | K1-11 Sloped channel - (1m) | 16.40 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 144043 | K1-010 Neutral channel - (1m) | 16.00 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 144044 | K1-0103 Neutral channel - (0.5m) | 7.70 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 144049 | K1-040 Neutral channel - (1m) | 27.00 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 2 | 145001 | K2-1 Sloped channel - (1m) | 37.90 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 2 | 145041 | K2-00 Neutral channel - (1m) | 37.90 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 145049 | K2-040 Neutral channel - (1m) | 57.40 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 146041 | K3-00 Neutral channel - (1m) | 60.10 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 146043 | K3-010 Neutral channel - (1m) | 65.00 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 146050 | K3-0403 Neutral channel - (0.5m) | 44.30 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 146449 | KS3-040 Neutral channel - (1m) | 81.40 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 01498 | ACO KlassikDrain- K100 - Type 900 In-line plastic rubbish basket | 0.50 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 97477 | K100KS100S100K Installation device | 1.30 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 13999 | ACO KlassikDrain- K200 - Type 902 In-line plastic rubbish basket | 0.50 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 97478 | K200KS200S200K Installation device | 1.30 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 02899 | QuickLok bar | 0.10 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 4 | 97479 | K300KS300S300K Installation device | 2.20 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 4 | 02899 | QuickLok bar | 0.10 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 02899 | QuickLok bar | 0.10 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 98653 | ACO KlassikDrain K300 -Type 903 In-line plastic rubbish basket | 1.60 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 13870 | Type 860D Iron Slotted grate (0.5m) | 19.00 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 96822 | K100KS100 End cap | 0.20 kg | https://acodrain.com.au | ACO | KlassikDrain | Rainwater Removal |
| 1 | 12614 | Type 425D Galvanised Slotted grate (1m) | 4.00 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 2 | 12670 | Type 460D Iron Slotted grate (0.5m) | 4.60 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 2 | 132720 | Type 492D Black polyamide Plastic Slotted Heelsafe® Anti-Slip(0.5m) | 1.00 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 3 | 142404 | Type 431Q Stainless Mesh grate (0.5m) | 2.10 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | -- | -- | 0.00 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 142460 | Type 495D Grey polypropylene Plastic Intercept Heelsafe® Anti-Slip g | 0.80 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |
| 1 | 96821 | K200KS200 End cap | 0.60 kg | https://acodrain.com.au | ACO | KlassikDrain | Rainwater Removal |
| 2 | 142177 | Type 660D Iron Slotted grate (0.5m) | 12.00 kg | https://acodrain.com.au/ | ACO | KlassikDrain | Rainwater Removal |

IFC File Usage Instructions

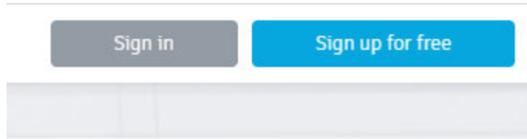
ACO KlassikDrain K100 – K300 Packages

This project includes the following Revit families.

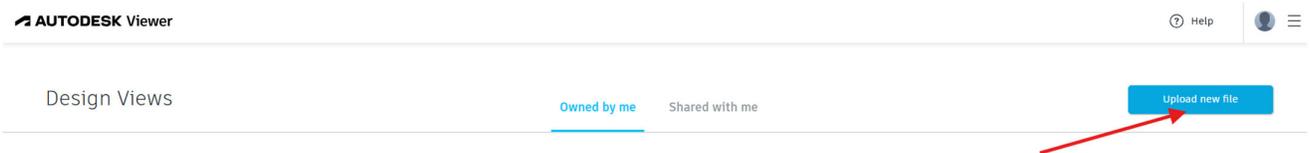
1. PF_ST_KlassikDrain_K100 & KS100_channels_AUS_ACO.rfa (98nos)
2. PF_ST_KlassikDrain_K200 & KS200_channels_AUS_ACO.rfa (98nos)
3. PF_ST_KlassikDrain_K300 & KS300_channels_AUS_ACO.rfa (98nos)
4. KlassikDrain_K1-900G_In-line_pit (2nos)
5. KlassikDrain_K1-901G_In-line_pit (2nos)
6. KlassikDrain_K2-902G_In-line_pit (2nos)
7. KlassikDrain_K3-903 In-line pit 0.5m (2nos)

Loading ACO KlassikDrain K100 – K300 IFC files in Autodesk online viewer:

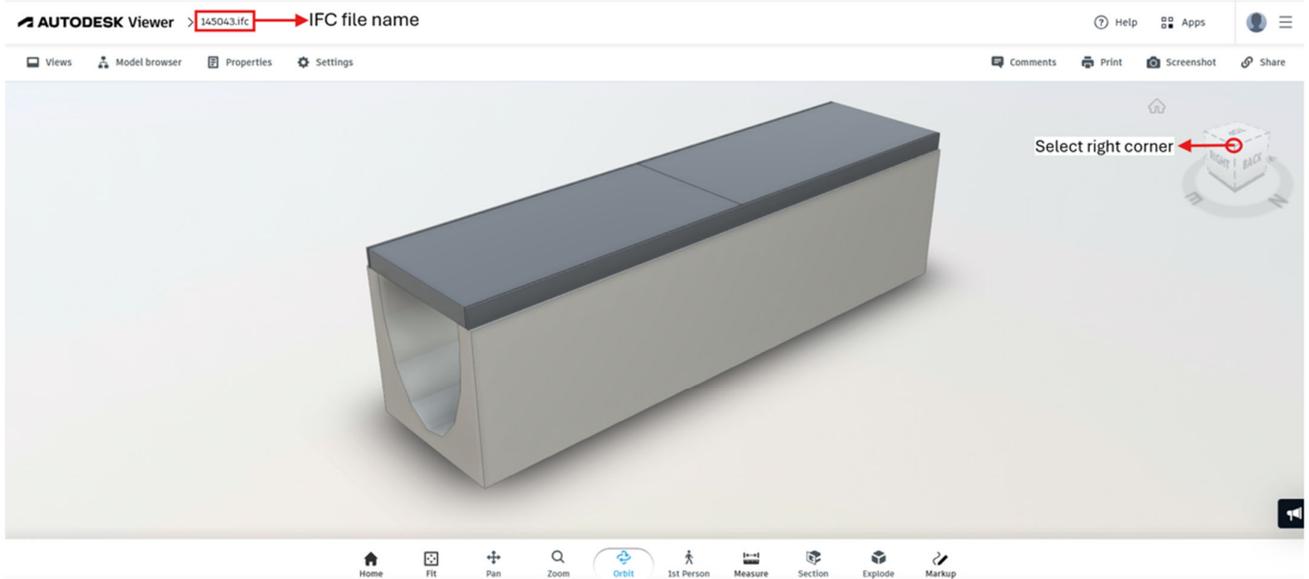
1. Click <https://viewer.autodesk.com/> website
2. Sign up for free or sign in by using Autodesk credential



3. Upload new IFC file or drag the IFC file to home page

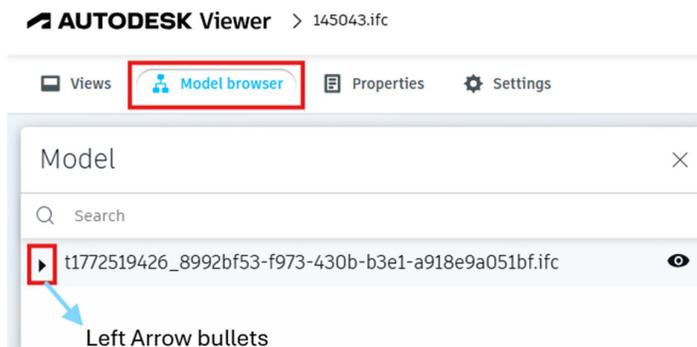


4. Once the IFC file is opened, click on the projection views by picking the face or corner edge of the cube.



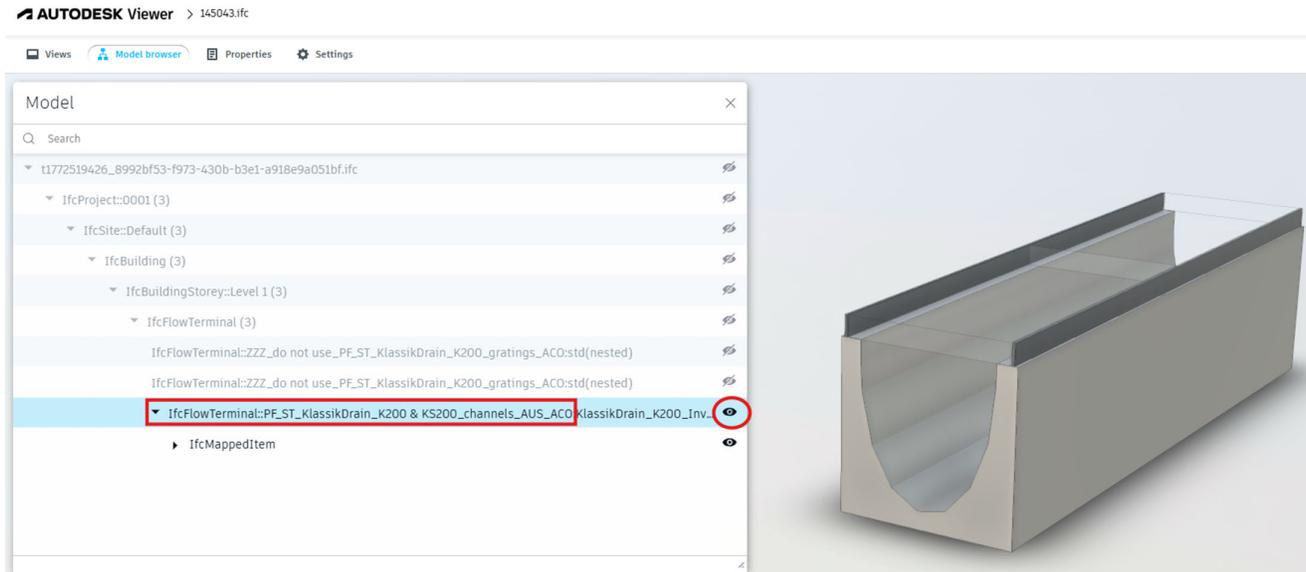
To check IFC parameters details:

1. Click on the Model browser tool bar and click on the left again. arrow bullets.

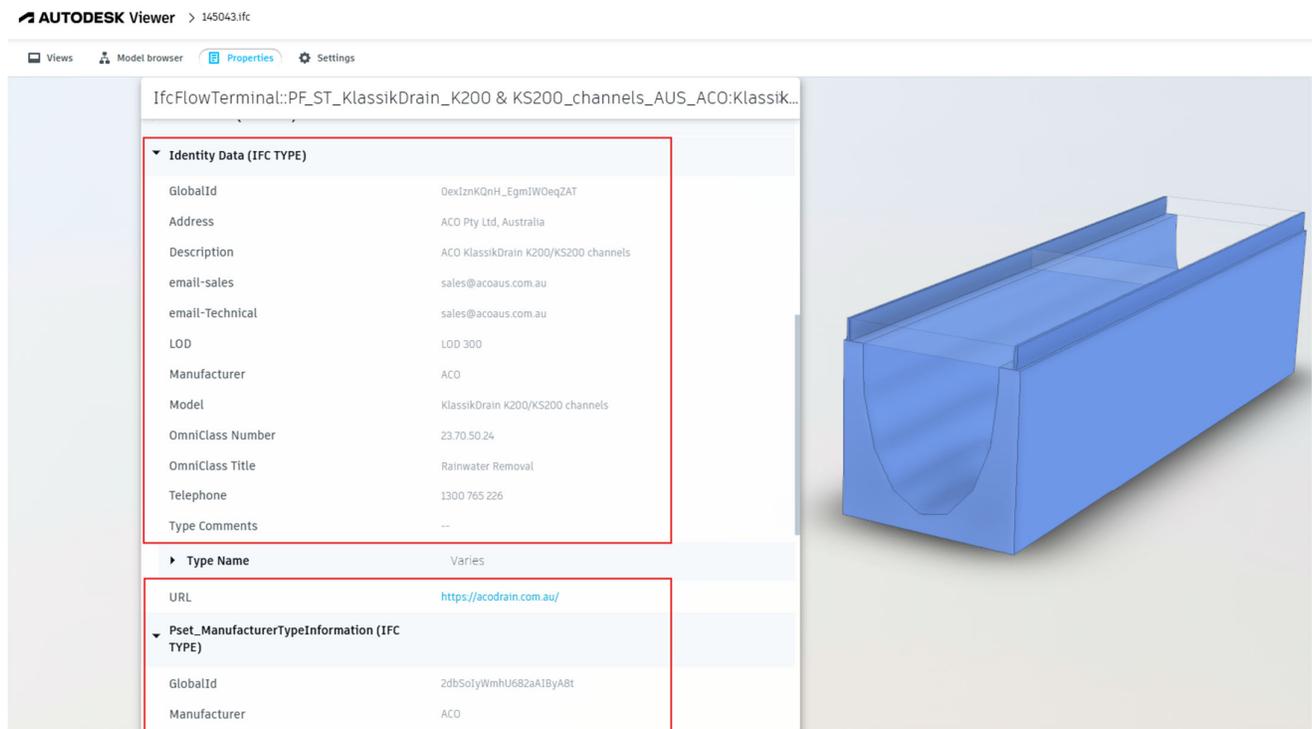


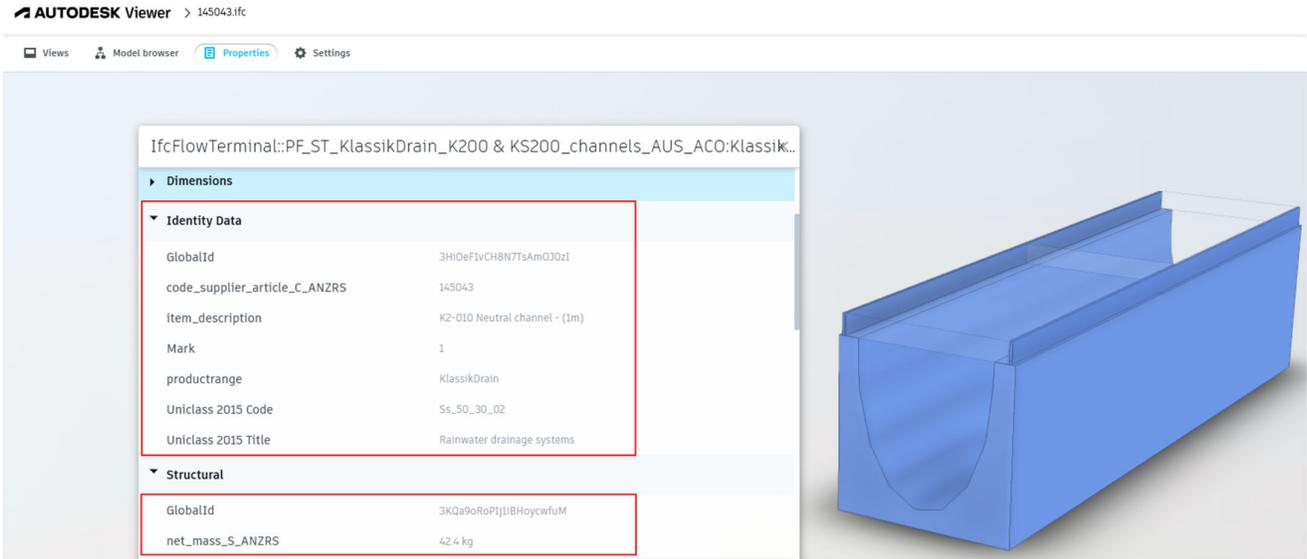
2. Click on the left bullet arrow:

- IfcProject
- IfcSite: Default
- IfcBuilding
- Level 1
- IfcFlowTerminal
- PF_ST_KlassikDrain_K200 & KS200_channels_AUS_ACO.rfa
- Click on PF_ST_KlassikDrain_K200 & KS200_channels_AUS_ACO.rfa → Select the visibility for the channel by selecting eye Icon tool bar

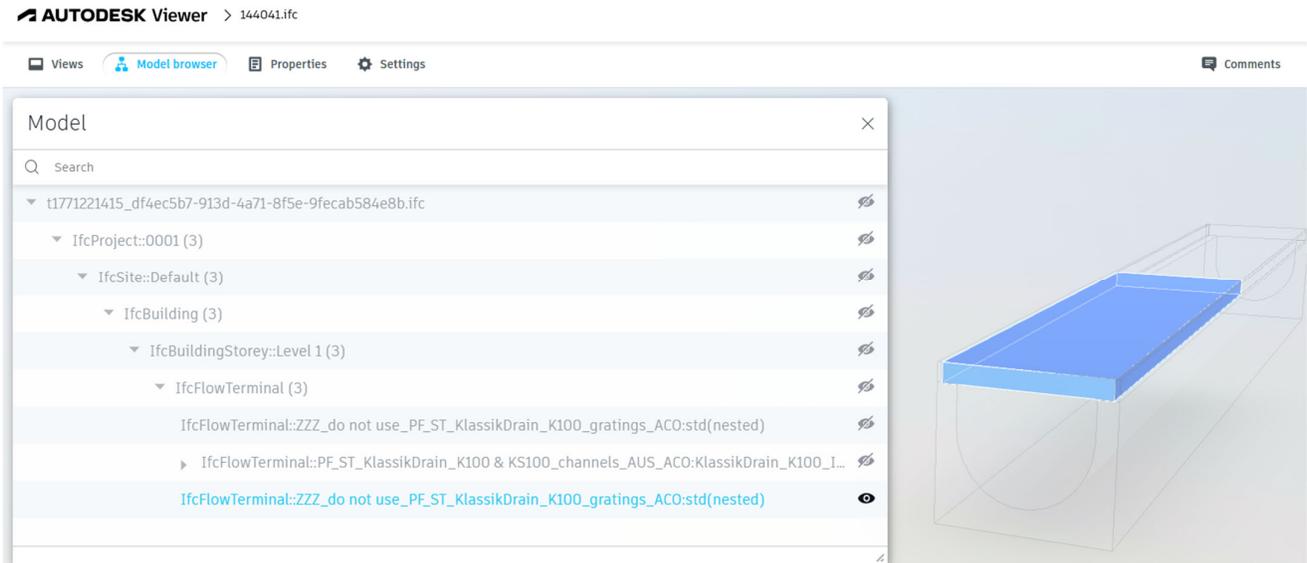


- Once the PF_ST_KlassikDrain_K200 & KS200_channels_AUS_ACO is selected → click on the Properties tool bar above as shown in image





- Hence, the IFC parameters show the details of the selected channel like All the **Identity Data** Properties → Article number, description, net mass, manufacturer, LOD, URL, Address, Email-sale, Email-Technical etc. All the Necessary details are available as shown in image.
- To check the grating details, click on the → ZZZ_do not use_PF_ST_KlassikDrain 200 gratings_ACO as shown in Image



- Once grating is selected, similarly select the Properties tool bar menu and check the IFC parameter details.

Note: All combinations of IFC files work in the same procedure as described above.