BIM User Guide: March 2022

**ACO Combipoint Multitop Gullytop**

**User Guide for Autodesk Revit files**

**ACO Combipoint Multitop Gullytop Package**

Combipoint Multitop Gullytop is incorporated in a single Revit template along with accessories. This template includes two gullytop multitop families based on load class C 250 and D 400 as shown below

1. PF\_CI\_WPB\_gullytop\_Multitop\_C 250
2. PF\_CI\_WPB\_gullytop\_Multitop\_D 400



The family types are further classified based on size,material,height and shape as follows.



**Loading ACO Combipoint Multitop gullytop into the project:**

1. Download the ACO Combipoint Multitop gullytop project file and save it to a suitable location
2. Select any one of the family from ACO Combipoint Multitop gullytop and

 load to your project

1. Navigate to the “Insert” icon on the Revit ribbon and click “Load Family”
2. 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**

1. Click on the model – At properties tool bar, it will display family name and types.
2. Two families consists of different family types, the user has to select the appropriate family type from the “Properties” drop down menu.



1. **PF\_CI\_WPB\_gullytop\_Multitop\_C 250**

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1. **PF\_CI\_WPB\_gullytop\_Multitop\_D 400**

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* **Selection of Flange**

The family has 4 family types which has an option of two sided flange and four sided flange which is named as follows;

1. 500x500 frame Bituplan H150 - flat - Aqua Plus
2. 500x500 frame Bituplan H150 - flat

By selecting the tick option in the Properties🡪Constraints tab the user can switch over to required no. of flange side.

* **Selection of Variable Height of Frame**

The family types mentioned above have the variable height option. The user can enter the height by going to Properties🡪Constraints tab

Minimum Hight 🡪150mm

Maximum Height🡪210mm

* Suppose if the user selects the height within the specified limit then the family will work as per entered height.
* Suppose if the user selects the height greater than the maximum value then by default irrespective of height entered it will be locked to maximum limit of height.
* Suppose if the user selects the height lesser than the minimum value then by default irrespective of height entered it will be locked to minimum limit of height.

Workplane Based Families

The families are work plane-based families so they can be placed in uniform and sloped surface of road as shown below

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**Selection of Accessories:**

Click on the model – At properties tool bar, it will display list of accessories such as closing plates, extraction and operating key, built in formwork and odor trap. Warning will popup as text, if the selected accessories are not available for particular family. User can select by click the list as shown below

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**Material Library:**

 The ACO Combipoint Multitop gullytop file contain materials that are already pre-loaded into the components. When loading the ACO Combipoint Multitop gullytop file into your project the pre-loaded materials will automatically transfer through.

**Schedules and quantities:**

The information such as article number, GTIN data, weight, installation guidelines within the parameters is stored as “Shared Parameters” with LOD 400 so it can easily appear when creating a schedule and quantities in the project environment as follows

