

Climecon Tuisku.X MagiCAD Cloud Plugin for Revit

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1 General

About this document

This document contains instructions on using *Climecon Tuisku.X MagiCAD plugin for Revit and MagiCAD* with Autodesk Revit and with MagiCAD for Revit applications.

Climecon Tuisku.X MagiCAD plugin allows user to select, insert and use Climecon Tuisku.X outdoor ventilation products in MagiCAD for Revit and plain Revit projects and drawings.

Climecon Tuisku.X selection tool (web application) allows user to filter different Tuisku.X products which makes a product selection easier for user.

Installing the plugin application

Required third party software

Climecon Tuisku.X MagiCAD plugin works with the following MagiCAD and Revit versions:

Revit

- Revit 2024 - 2027

MagiCAD for Revit (optional)

- MagiCAD 2026 with Revit 2024 - 2026
- MagiCAD 2027 with Revit 2025 - 2027

Before installation

Workstation administrator privileges are recommended for installation.

Installation

1. Download the installer file Climecon Plugin for Revit and MagiCAD from MagiCAD portal to your workstation:

<https://portal.magicad.com/Download/ProductSearch?searchStr=Climecon&categoryId=3>

2. Run the Climecon installer on your workstation and follow the installer instructions.

Starting the plugin application

The plugin application is automatically loaded and is ready for use once Revit is started next time after the plugin installation.

Locate the MagiCAD Connect tab from the Revit ribbon. Once the Climecon Tuisku.X MagiCAD plugin is loaded its ribbon panel and button can be found from MagiCAD Connect tab. When the insert button is clicked the Tuisku.X insert operation is started. On mouse over the button it gives some extra information about the insert functionality.



Figure 1 Climecon ribbon panel and Tuisku.X button and button tooltip

2 Functionality

Climecon Tuisku.X Climecon plugin for Revit and MagiCAD UI overview

Tuisku.X plugin contains one operation:

Insert Tuisku.X product



This command inserts a new Tuisku.X outdoor ventilation product to project with Climecon Tuisku.X selection tool and according to user selection criteria.

This command is supported when using MagiCAD for Revit and plain Revit.

Detailed insert Tuisku.X operation



Workflow

Follow these steps to insert Tuisku.X product from Tuisku.X web application when using MagiCAD for Revit or plain Revit:

1. Click the “Tuisku.X” button from the Climecon panel.
2. Once the operation is started the plugin opens the Tuisku.X selection tool web application. User selects the Tuisku.X product, sets the search criteria and selects the “Search covers” button to proceed.

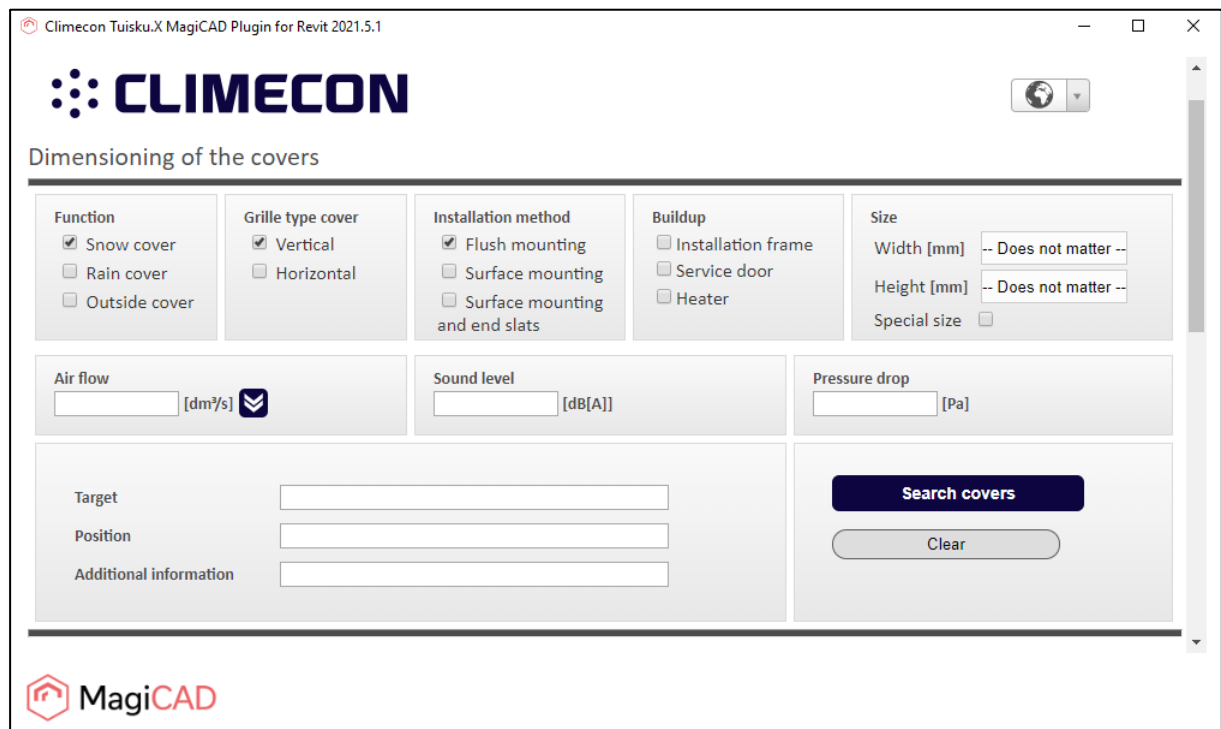


Figure 2 Climecon Tuisku.X selection tool in MagiCAD plugin

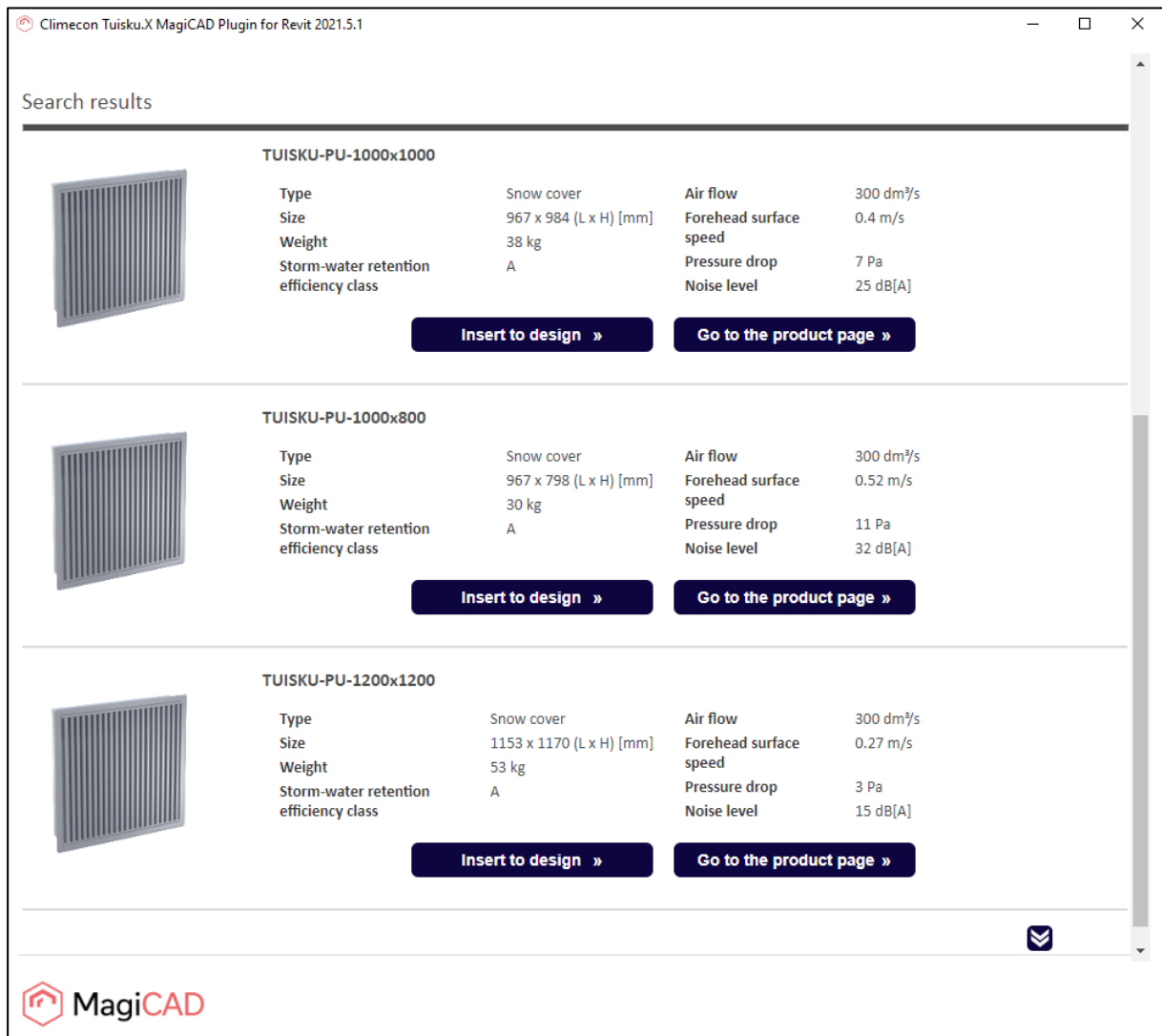


Figure 3 Climecon Tuisku.X selection tool search results

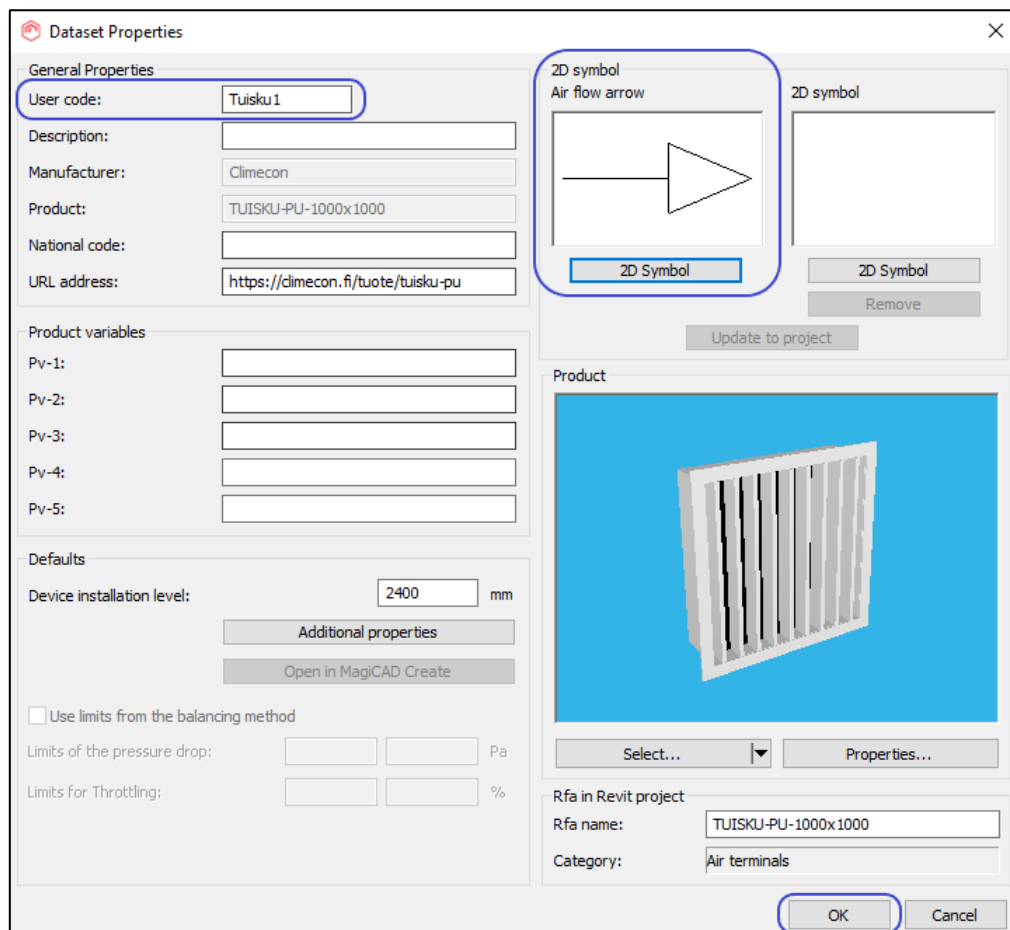
- After user has done the search, the selection tool gives a list of suitable products according to the search criteria. User starts the product insert by selecting the “Insert to MagiCAD” button.
- The product is transferred and user proceeds to product insert operation.

See chapter *Product insert operation in MagiCAD for Revit* for inserting the product with MagiCAD for Revit.

See chapter *Product insert operation in Revit* for inserting the product with Revit.

Product insert operation in MagiCAD for Revit

- After product is transferred from selection tool, the plugin adds the product to MagiCAD dataset. User should add at least the user code and 2D symbol for the product and then proceed with OK button.



Dataset Properties

General Properties

User code:

Description:

Manufacturer:

Product:

National code:

URL address:

Product variables

Pv-1:

Pv-2:

Pv-3:

Pv-4:

Pv-5:

Defaults

Device installation level: mm

☐ Use limits from the balancing method

Limits of the pressure drop: Pa

Limits for Throttling: %

Product

Rfa in Revit project

Rfa name:

Category:

Figure 4 Tuisku.X product added to MagiCAD dataset

6. After product is added to MagiCAD's dataset, user makes the MagiCAD product selection. User adds the product flow parameter and after that user sees:

- The velocity
- The pressure drop value for that flow
- The sound power level values
- The pressure diagram.

At this point user can also select a different point directly from the diagram. All the values mentioned above are changing according to the point selection.

User proceeds to family instance creation with the "Select" button.

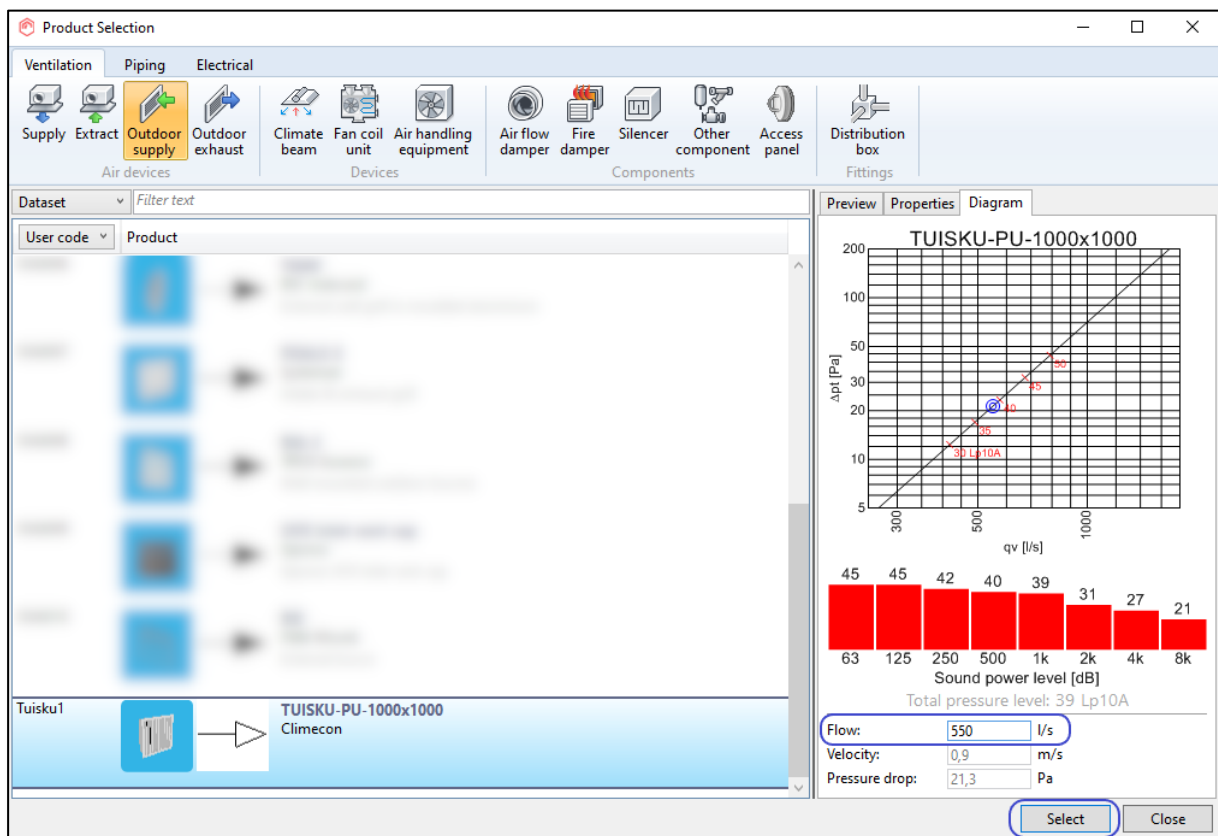


Figure 5 MagiCAD product selection dialog

7. After product is selected the plugin starts to create the product family instance. MagiCAD shows the progress dialog during the creation and after the instance is created user is able to insert it to the project.

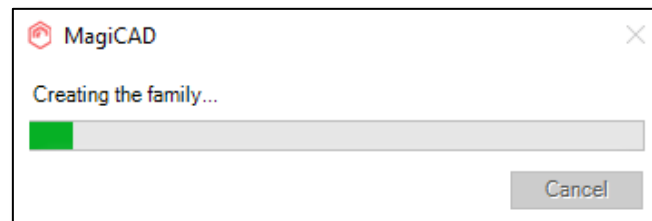


Figure 6 MagiCAD family creation progress dialog

During the product installation, user sees the MagiCAD's Product installation dialog with multiple installation options. User is able to install one or multiple instances.

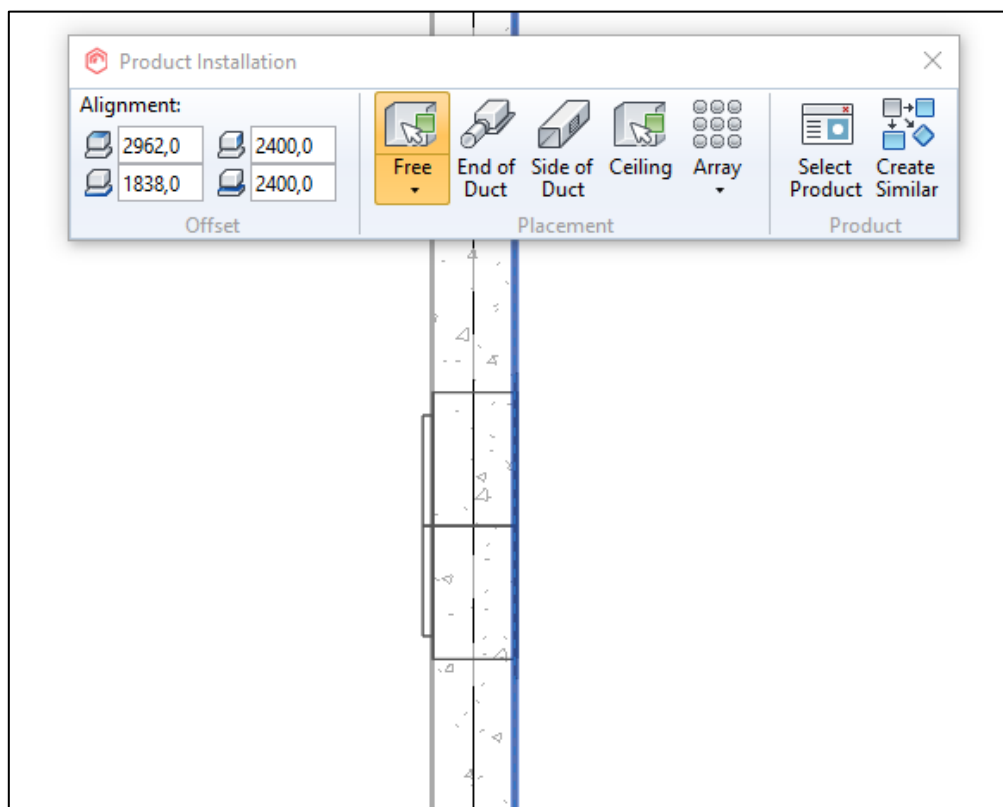


Figure 7 Tuisku.X product installation and MagiCAD Product installation dialog

8. After the installation user is able to attach the product to ductwork and run the necessary MagiCAD ductwork calculations.

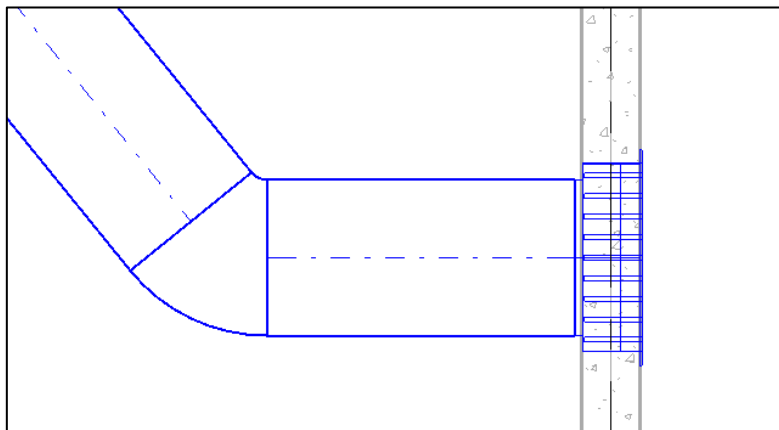


Figure 8 Installed Tuisku.X product and duct in MagiCAD for Revit project in 2D view

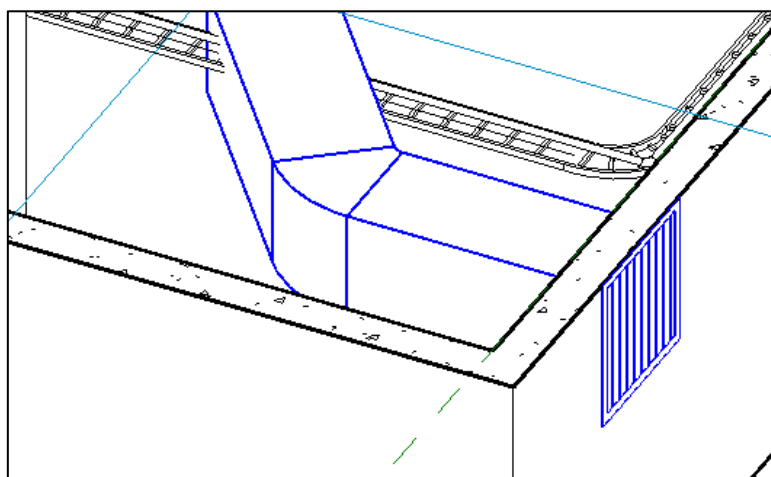


Figure 9 Installed Tuisku.X product and duct in MagiCAD for Revit project in 3D view

Product insert operation in Revit without MagiCAD

5. After product is transferred from selection tool, the plugin asks for user to set up the family instance flow and installation level (offset) values. Plugin will set the family instance values according to user given values. User proceeds with OK button.

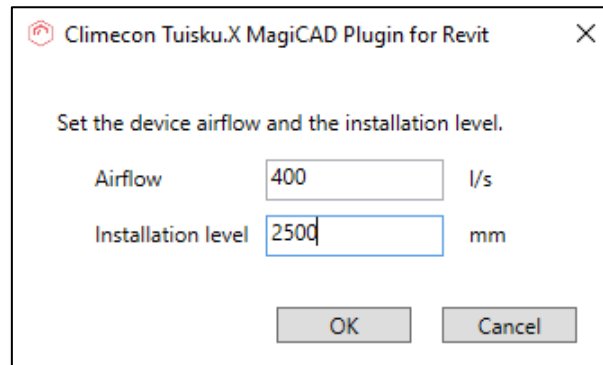


Figure 10 MagiCAD plugin value setting dialog

6. After this the plugin starts to create the product family instance with given parameter values. Plugin shows the progress dialog during the creation.

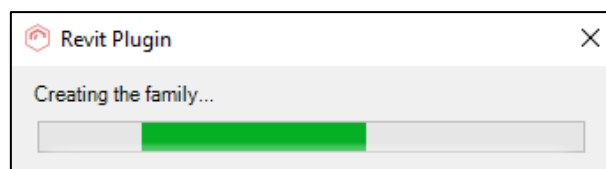


Figure 11 MagiCAD plugin family creation progress dialog

After the instance is created user is able to insert one or multiple instances to the project.

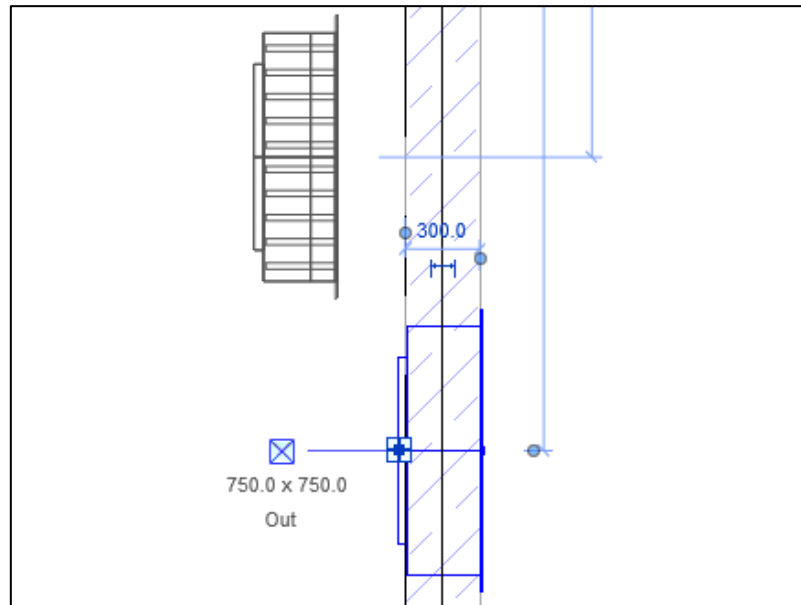


Figure 12 One installed Tuisku.X family instance in Revit project

7. After the installation user is able to attach the product to ductwork.

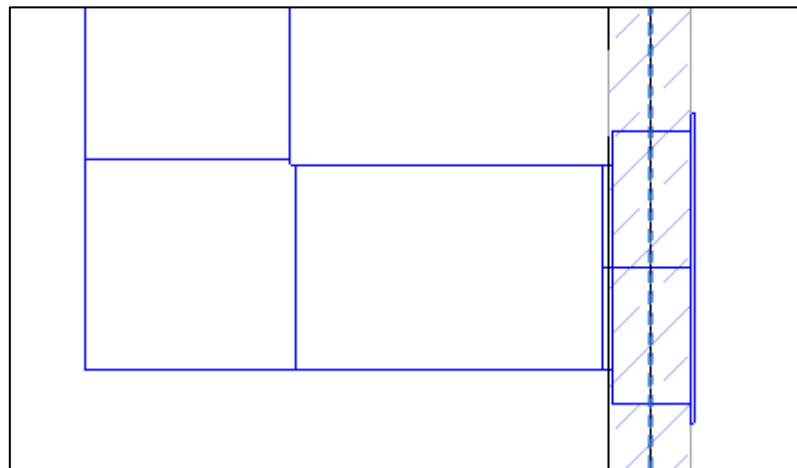


Figure 13 Installed Tuisku.X product and duct in Revit project in 2D view

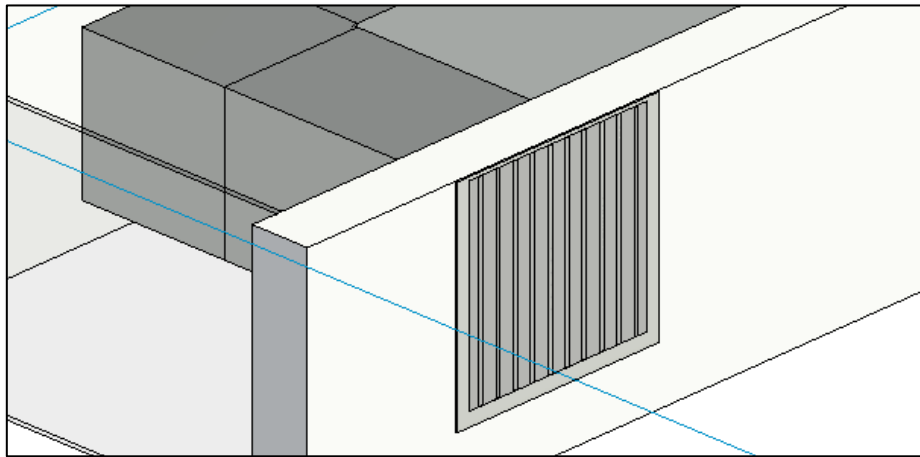


Figure 14 Installed Tuisku.X product and duct in Revit project in 3D view

3 Troubleshooting

Product geometry model not found

During the insert operation plugin gets the product geometry model from MagiCAD Cloud. If product model ID given by Tuisku.X selection tool is not found from Cloud, plugin gives error message during the product insert operation.

Error message contains the geometry model ID which is not found.

