



Rudolf Hensel MagiCAD Cloud Plugin for Revit

25/09/2026

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1 General

1.1 About this document

This document contains instructions on how to install and use Rudolf Hensel *MagiCAD Cloud plugin for Revit* and make fire seal design with the plugin application.

Rudolf Hensel plugin is Autodesk Revit add-in application, and it works on Revit platform in co-operation with MagiCAD functions. It integrates the Rudolf Hensel fire seal Lookup App to Revit.

1.2 Installing the plugin

1.2.1 Required software

Rudolf Hensel plugin works with the following MagiCAD and Revit versions.

Revit

- Revit 2024-2027

MagiCAD

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

Microsoft .NET Desktop Runtime.

1.2.2 Installation

Administrator privileges are recommended for installation.

1. Download the installation package from MagiCAD portal.

<https://portal.magicad.com/Download/GetProductCategoryList?categoryId=3>

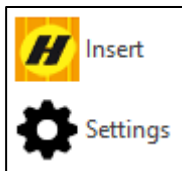
2. Run the installer on your workstation.

1.3 Starting the plugin

The plugin is automatically loaded, and application is ready to be used once Revit is started next time after the plugin installation.

Rudolf Hensel plugin ribbon panel can be found from MagiCAD Connect tab in Revit. When the drop-down button is clicked, the list of available operations will be shown. Plugin contains two operations:

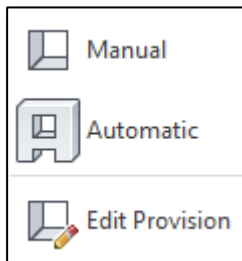
- **Insert** operation which contains the selection and insert of correct fire seal product to MagiCAD's provision for void.
- **Settings** operation which contains important plugin usage related settings.



2 Before using the plugin

Rudolf Hensel plugin is using MagiCAD's provision for void Revit instances for the fire seal products selection. The provision for void instances are made with Provision for Builderswork feature which is part of the MagiCAD Common module. Provision for Builderswork feature will detect the collisions between MEP and structural elements and results the Revit instances which Rudolf Hensel plugin application is using for fire seal product selection and insert.

Provision for Builderswork Automatic tool provides the needed information for plugin application and e.g. the colliding Revit MEP and structural element IDs. With these IDs the plugin application can find more information from the Revit projects and colliding elements. Both, structural and MEP Revit projects can be linked Revit projects. Generally, this means that plugin application can find all the needed information even if related MEP and structural Revit projects are linked into main project file.

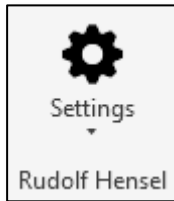


Revit project default volume unit is cubic meters. That unit is too big for the volumes of fire seals. Change the project volume units to litres for better understanding of the volumes.

3 How to use the plugin

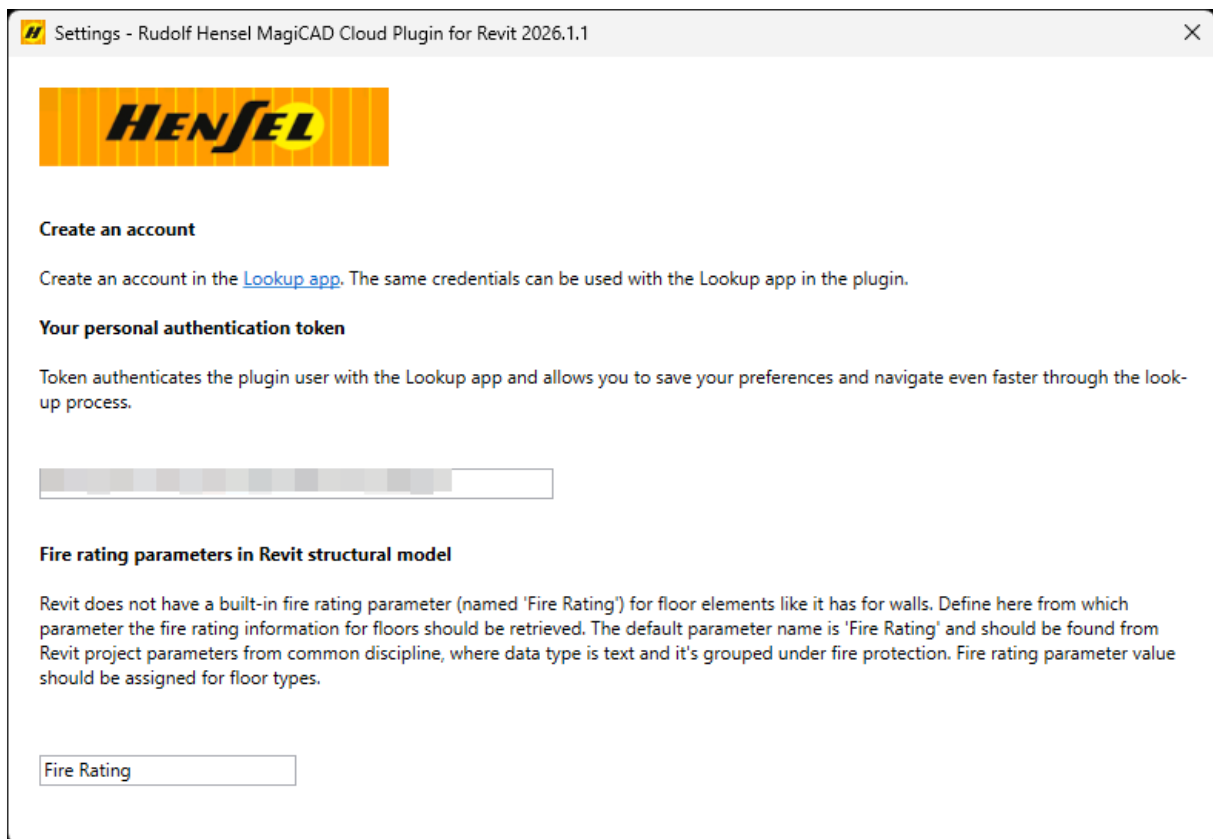
3.1 Settings operation

Find the MagiCAD Connect tab, Rudolf Hensel panel and start the *Settings* operation from ribbon button.



Command opens the plugin Settings dialog. In dialog there are two separate sections related to the plugin usage.

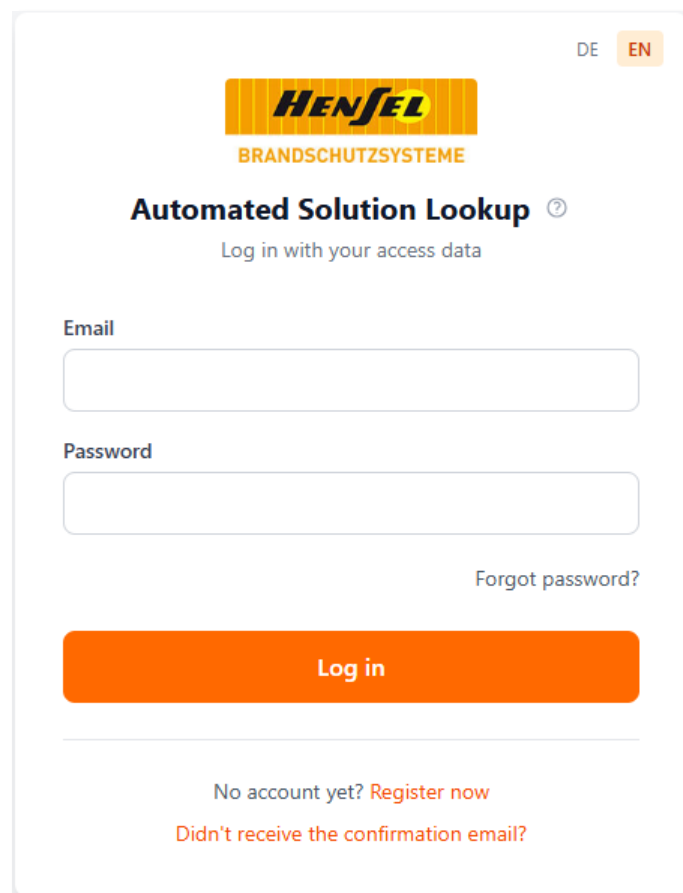
1. Your personal authentication token.
2. Fire rating parameters in Revit structural model.



3.1.1 Your personal authentication token

The token is requested within the Lookup app (see the link in the settings dialog) and enables automatic user login. If the token is saved in the plugin, the user remains logged into the Lookup app automatically. Without a saved token, the user must log in manually.

Please note: You must create an account first in order to obtain the token. The token essentially serves as a "quick login."



The screenshot shows a login window for HENJEL BRANDSCHUTZSYSTEME. At the top right, there are language selection buttons for 'DE' and 'EN'. The HENJEL logo is prominently displayed in the center, with the text 'BRANDSCHUTZSYSTEME' below it. The main heading is 'Automated Solution Lookup' with a help icon. Below this is the instruction 'Log in with your access data'. The form contains two input fields: 'Email' and 'Password'. To the right of the password field is a link for 'Forgot password?'. A large orange 'Log in' button is positioned below the input fields. At the bottom, there are two links: 'No account yet? Register now' and 'Didn't receive the confirmation email?'.

3.1.2 Fire rating parameters in Revit structural model

Since the Revit does not have a native parameter for fire rating structural floor elements like it does for wall elements, plugin needs to know a parameter where this information should be retrieved. Floor fire rating information should be found from this specific parameter in the Revit architectural model.

With wall elements the plugin is reading the information from Revit native parameter.

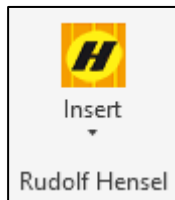
For best result the fire rating should be defined in the architectural model structures.

3.2 Insert operation

3.2.1 Product selection

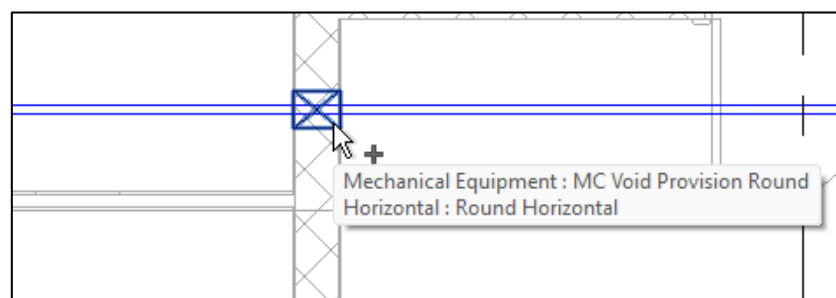
Before starting the insert operation, make sure that the provision for void instances exists in the Revit project and they are made with MagiCAD's Provision for Builderswork 'Automatic' tool. These instances finally defines the positions of the fire seal product system instances.

Find the MagiCAD Connect tab, Rudolf Hensel panel and start the *Insert* operation from ribbon button.

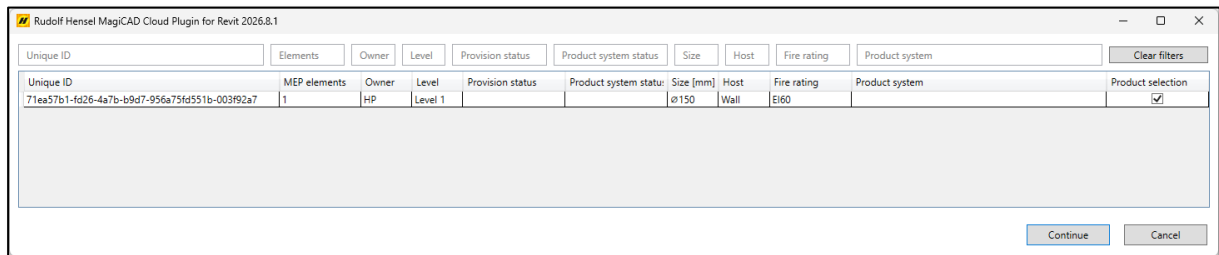


When command is started from plugin button, plugin first downloads the mandatory Revit family files to be used for Rudolf Hensel Revit product system family instance creation. This is done only once per Revit session.

1. Plugin asks for user to select all the needed provision for void instances from Revit project for product system selection. See the plugin specific user prompt from Revit Status Bar at the very bottom left of the application window. Rudolf Hensel fire seal product system instances will be added later to the positions of selected provision for void instances.



- After all the provision for void instances are selected, finish the selection with Revit's function. Plugin analyses the selected instances and opens the pre-insert dialog which shows information of the selected provision for void instances and related information like e.g. fire rating of the structure. Each line in dialog represents one selected instance and a double click on the dialog line activates the corresponding instance in Revit project.

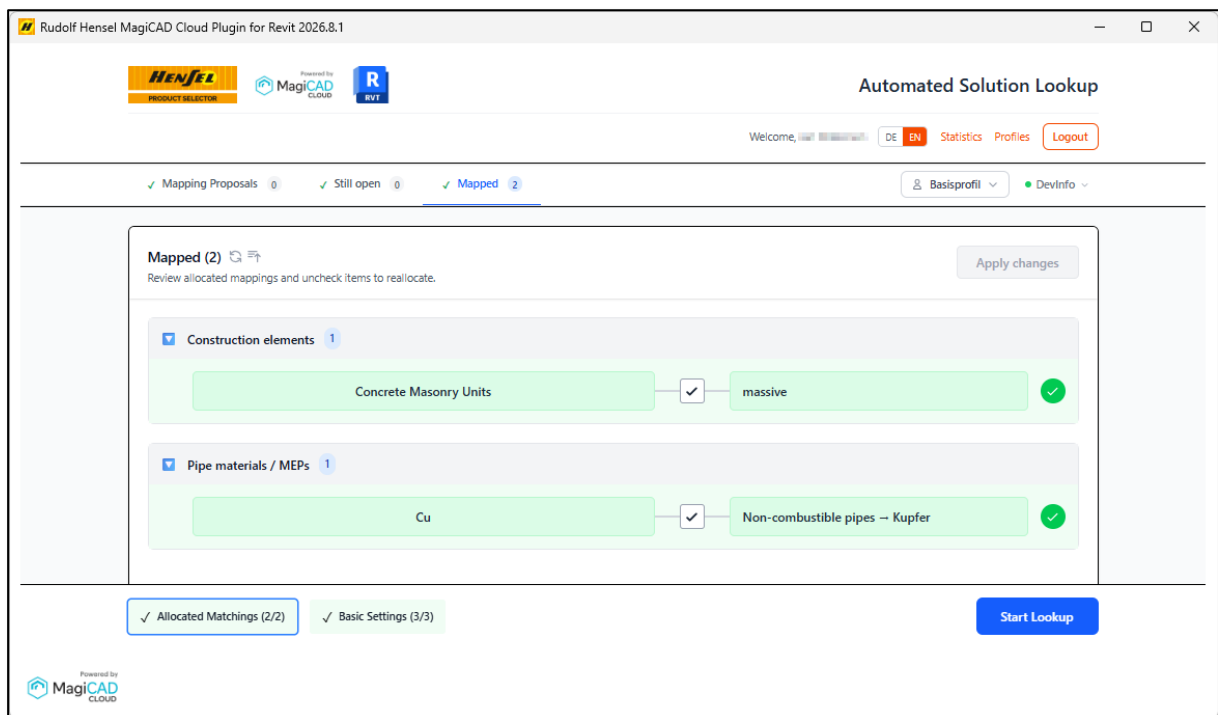


Unique ID	MEP elements	Owner	Level	Provision status	Product system status	Size (mm)	Host	Fire rating	Product system	Product selection
71ea57b1-fd26-4a7b-b9d7-956a75fd551b-003f92a7	1	HP	Level 1			ø150	Wall	Ei60		☒

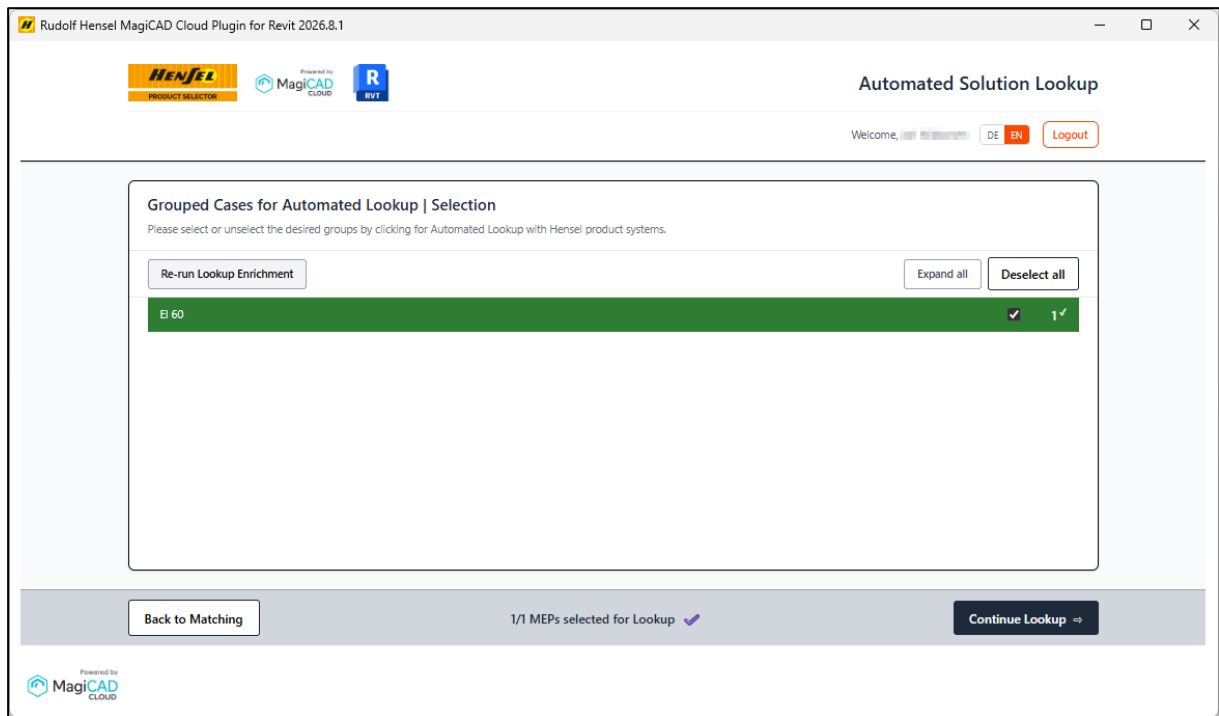
User can filter the lines in dialog according to each column. This is useful when multiple instances are selected. Rightmost column is used to select the corresponding provision for void for product system selection. If all needed data is available for product selection, then plugin ticks the box automatically. E.g. if wall is missing the fire rating, the box is not ticked automatically. In this case if provision is selected for product selection, user needs to define the fire rating separately in Lookup App.

Proceed to product system selection with Continue button.

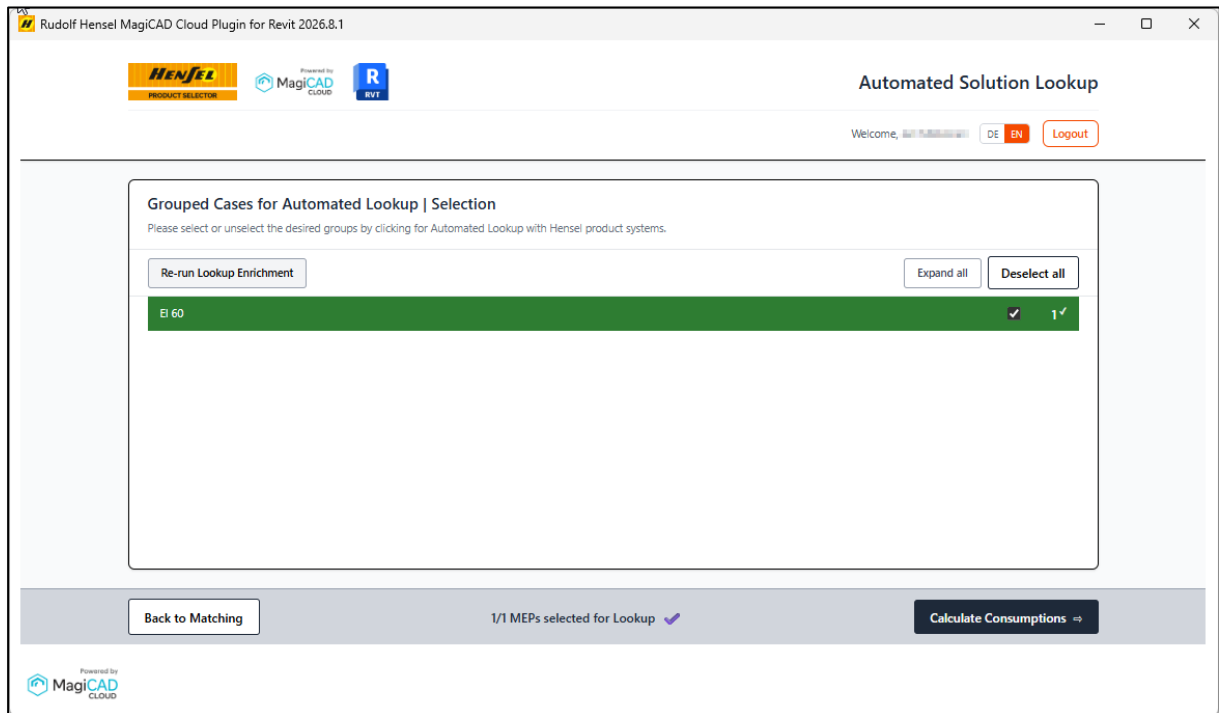
- The plugin opens the Rudolf Hensel Lookup App in its browser and all data needed for product selection is communicated with Lookup App. The Lookup App maps the construction elements and MEP elements automatically if user has defined the mapping rules in Lookup App profile before. Otherwise, user makes the mapping manually and it will be saved in the profile for future mappings. User can continue from here directly to product selection with Start Lookup button, if there's no need to do any changes in the basic settings.



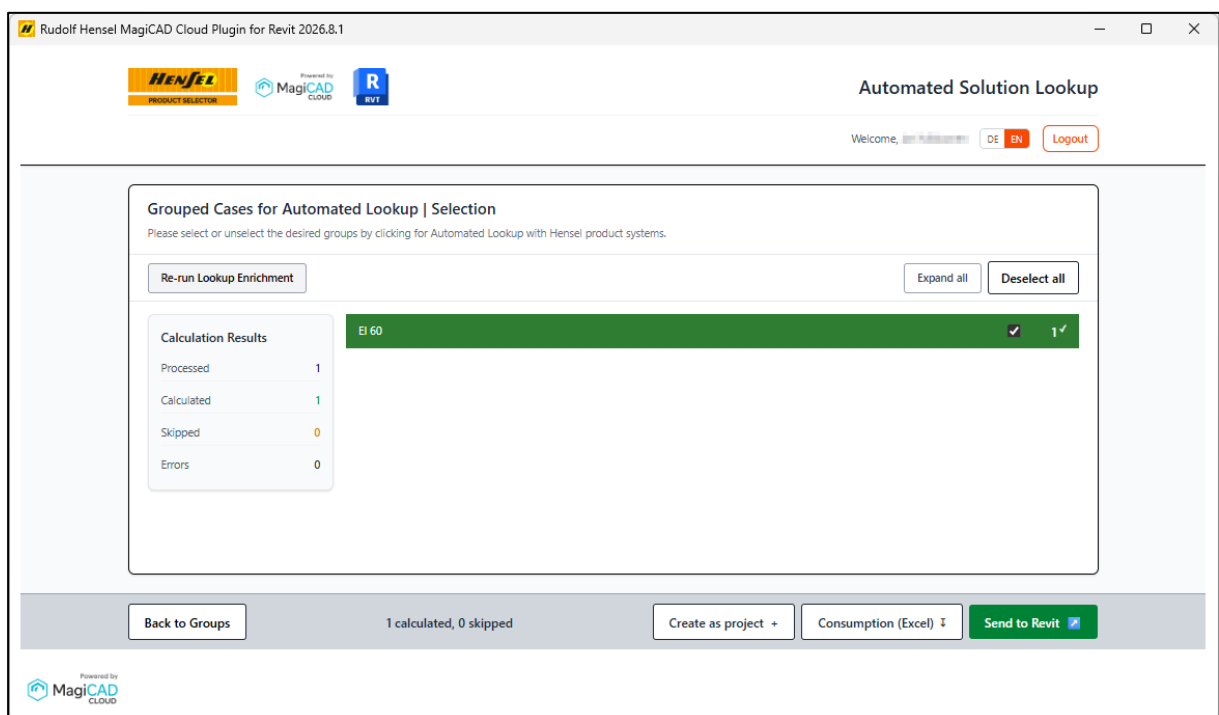
4. Lookup App groups all the same type of cases where same type of product system can be used for fire sealing. This simplifies the product selection when there is multiple same type of cases with same type of product system definitions. User proceeds with Continue Lookup button.



- Next, user proceeds to product system consumption calculation in Lookup App. This phase will calculate the material needs for the product systems.

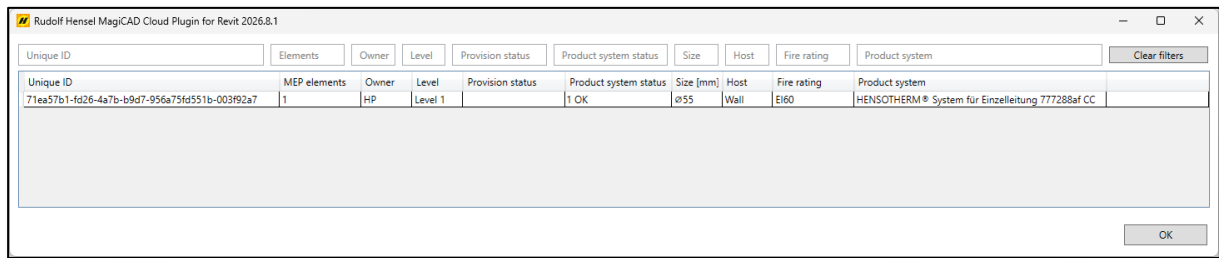


- In the last phase user sends the results back to Revit.



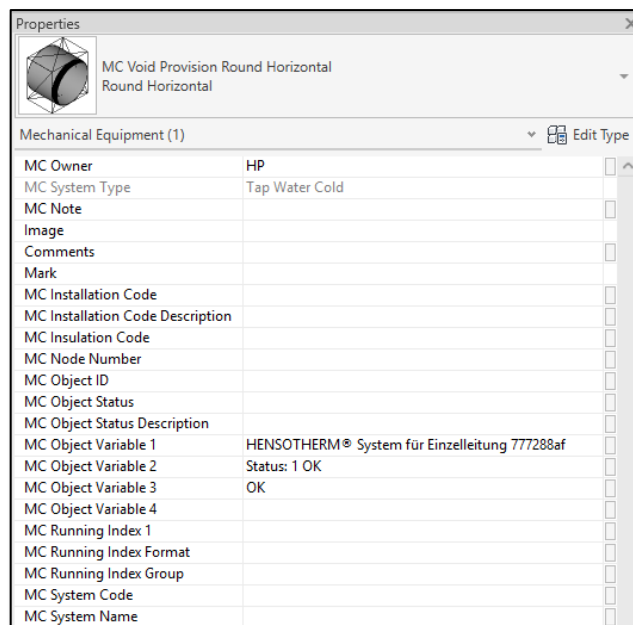
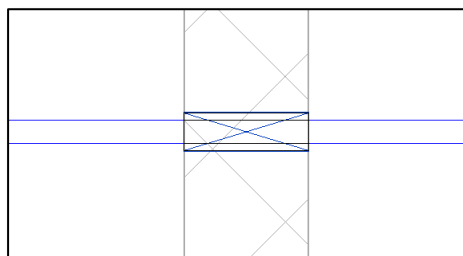
3.2.2 Product creation in Revit

Once the products are selected for provision for voids and sent back to Revit from Lookup App, plugin creates the selected product system instances to Revit project in correct positions and shows the post-insert dialog for user. It shows the selected product system status and the name of the selected product system. Double click on the dialog line activates the corresponding provision for void instance in Revit project.

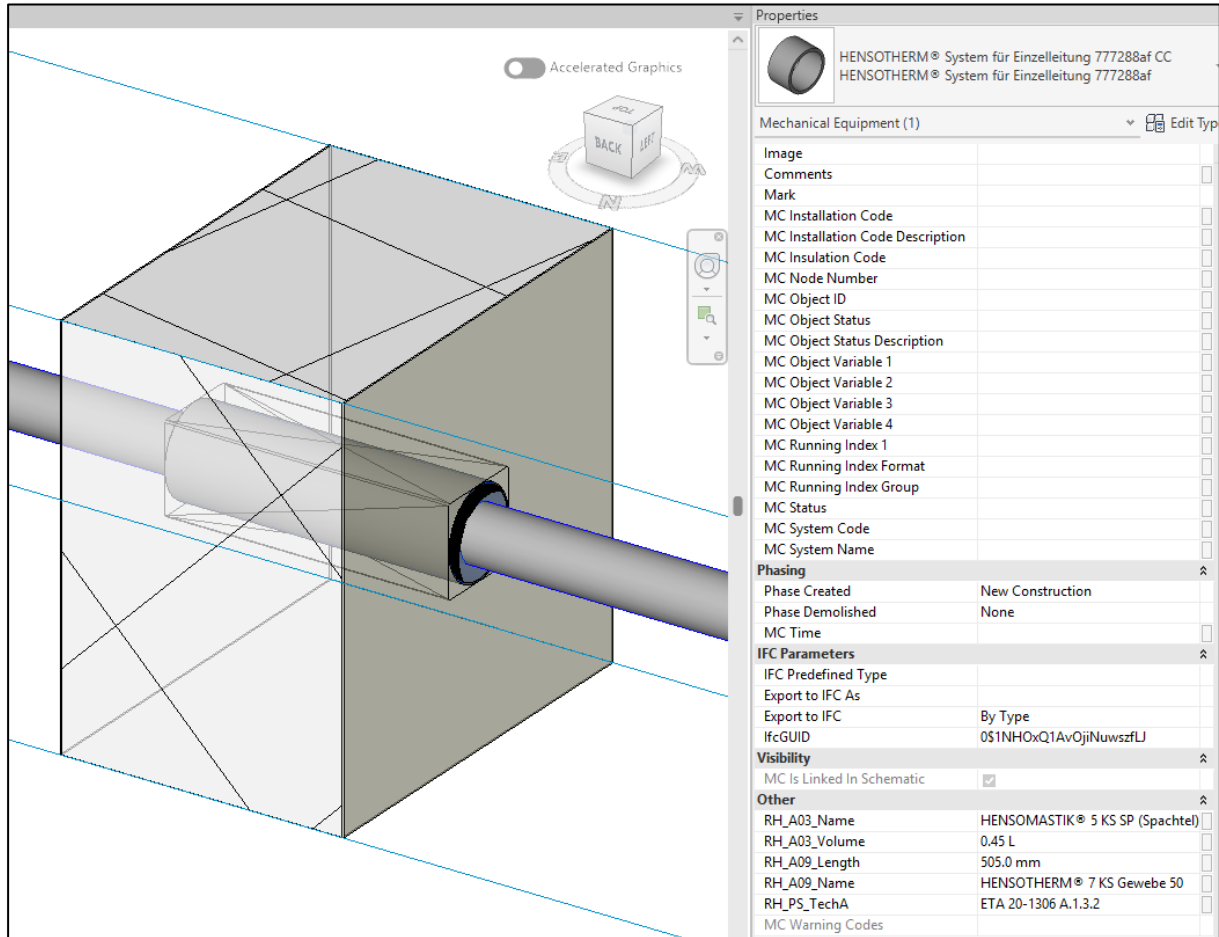


When product system family instance is created, plugin will optimize the provision for void size according to product system requirements. This is done because the provision for void instance is the source for making the voids in structures and this will optimize the material consumption in project.

Plugin also locks the provision for void instance for possible later changes with MagiCAD's Provision for Builderswork feature. Rudolf Hensel specific information is written to the shared parameters of provision for void instance.



Selected product system family instance is visible in Revit project. The product system specific information is stored in Rudolf Hensel specific Revit shared parameters.



The product systems specific URL is written in the family type shared parameter. Clicking the URL opens the product system specific product page.

Type Properties

Family: HENSOTHERM® System für Einzelleitung 777288af CC Load...

Type: HENSOTHERM® System für Einzelleitung 777288af Duplicate... Rename...

Type Parameters

Parameter	Value	
MC National Classification		
MC National Code		
MC Piping Connection Si		
MC Piping Connection Si		
MC Product Variable 1		
MC Product Variable 2		
MC Product Variable 3		
MC Product Variable 4		
MC Product Variable 5		
MC User Code		
Supports & Hangers		
IFC Parameters		
Type IFC Predefined Type		
Export Type to IFC As		
Export Type to IFC	Default	
Type IfcGUID	051NH0xQ1AvOjiNuwszfhh	
Other		
RH_PS_Name	HENSOTHERM® System für Einzelleitung 777288af	
RH_PS_URL	https://www.rudolf-hensel.de/en/produkte/hensotherm-system-einzelleitung/	

Sort by:

<< Preview OK Cancel Apply