

REVIT Leviat BIM Plugin instructions

Plugin Version : 5.x


for Revit 2023 / Revit 2024 / Revit 2025

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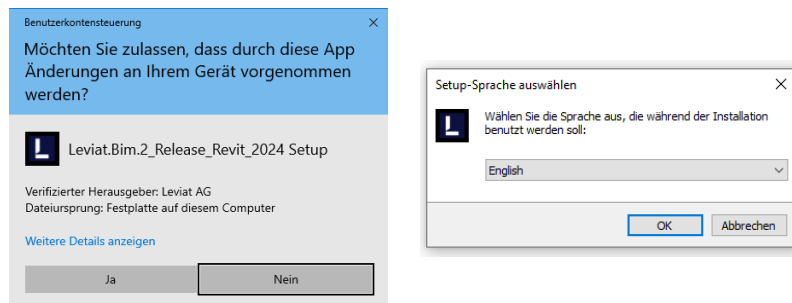
How to install the Plugin – Admin rights required

Note: The previous Leviat BIM Plugin version needs to be uninstalled to avoid unexpected behaviours!

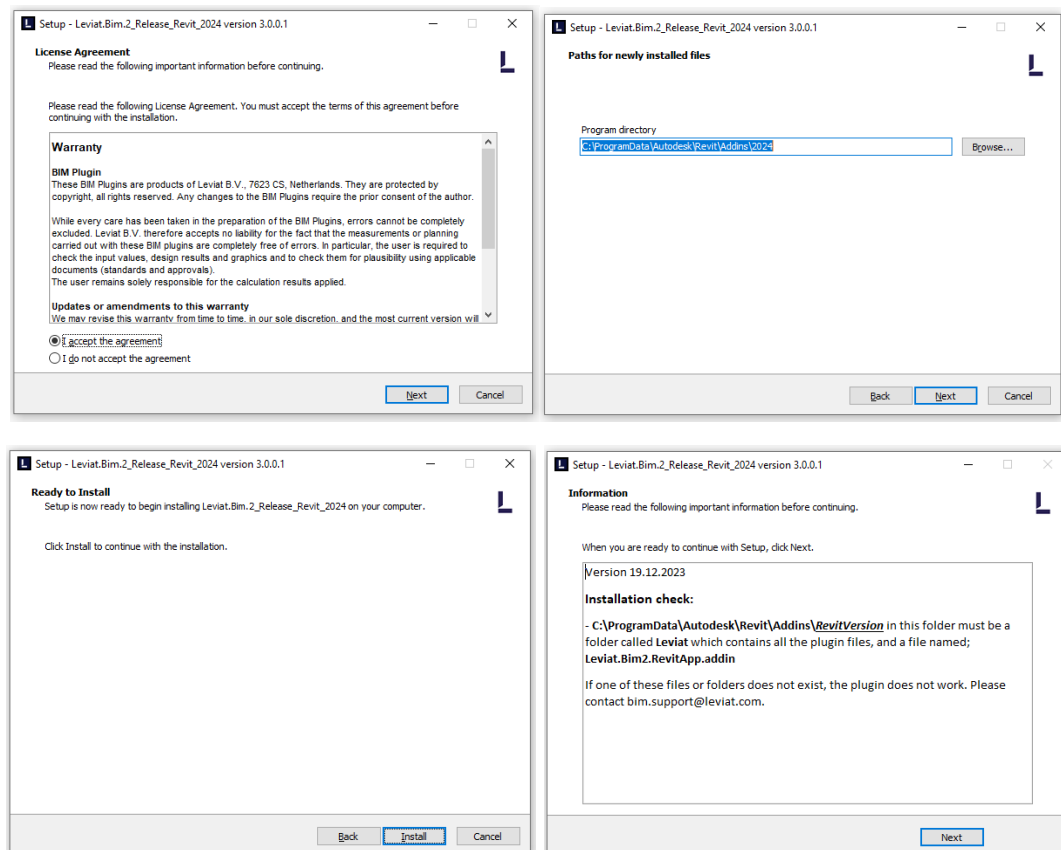
To start the installation, double-click on the installation file. Here is an example for version 3.x.x.x.. Higher versions might be slightly different.

 **Leviat.Bim.2_Release_Revit_2024_v3.0.0.1_Installer.exe**

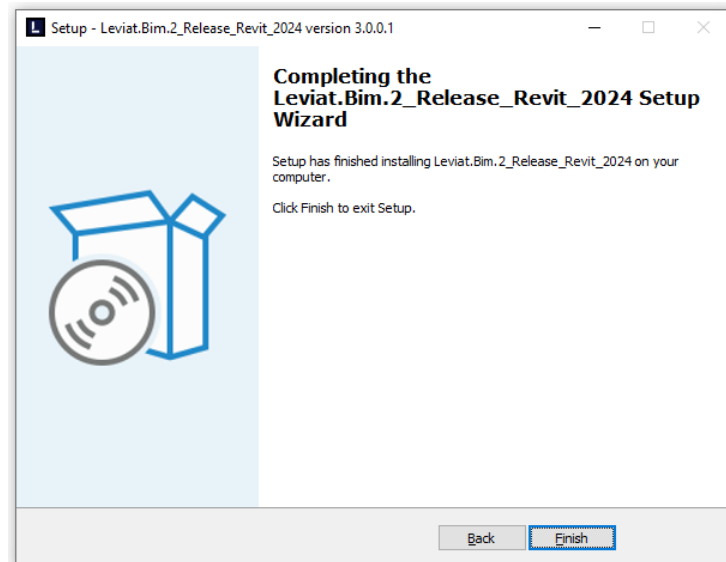
A pop-up window for administrative rights will appear. Once you have done so, select the language for the installation process in the following window.




Follow the next steps by clicking “Next” and “Install”.



Everything will be installed correctly once you press “Finish” in the last window.



First steps in the Plugin

Before doing anything, the user should configure their preferred environment, in the SETTINGS tab (accessible via the settings  icon).

The user can select the PLUGIN LANGUAGE as well as the COUNTRY in which the project is being designed.

Getting started with the Plugin

The Leviat BIM Plugin for Revit can be found in the "Leviat" tab (as in the previous version).

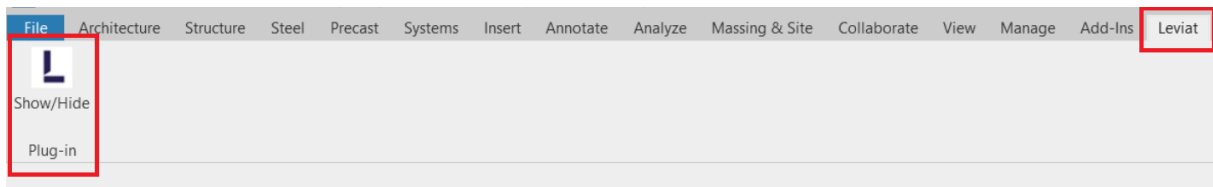


Figure 1 – Leviat BIM Plugin in the "Leviat" tab in Revit

When the "Show/Hide" button is pressed, a side tab panel is opened in the Revit Project environment.

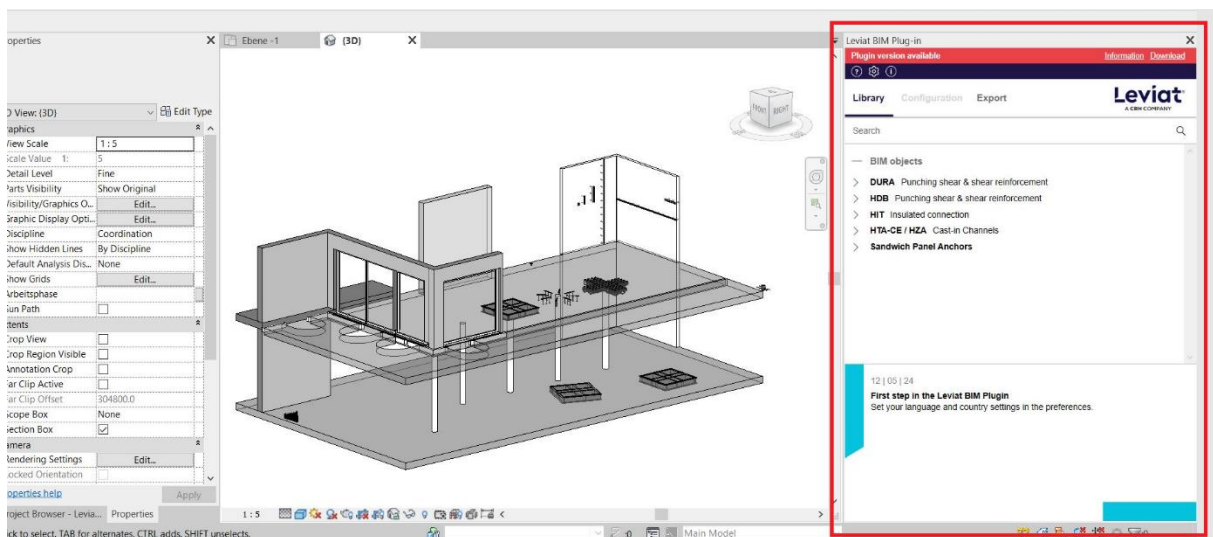


Figure 2 – BIM Plugin visible in the side panel

There are 3 main tabs in the plugin: LIBRARY, where the user can browse the range of products integrated in the plugin; CONFIGURATION, where the user can configure the types within the selected product; and EXPORT, where the user can export Leviat BIM objects in lists.

There are 3 additional tabs: HELP, where the user can check basic instructions on how to work with the plugin and create a bug report; SETTINGS, where the user can change the project environment; INFO, where the user can check additional information about the plugin, such as the current version, warranty information and privacy policy.

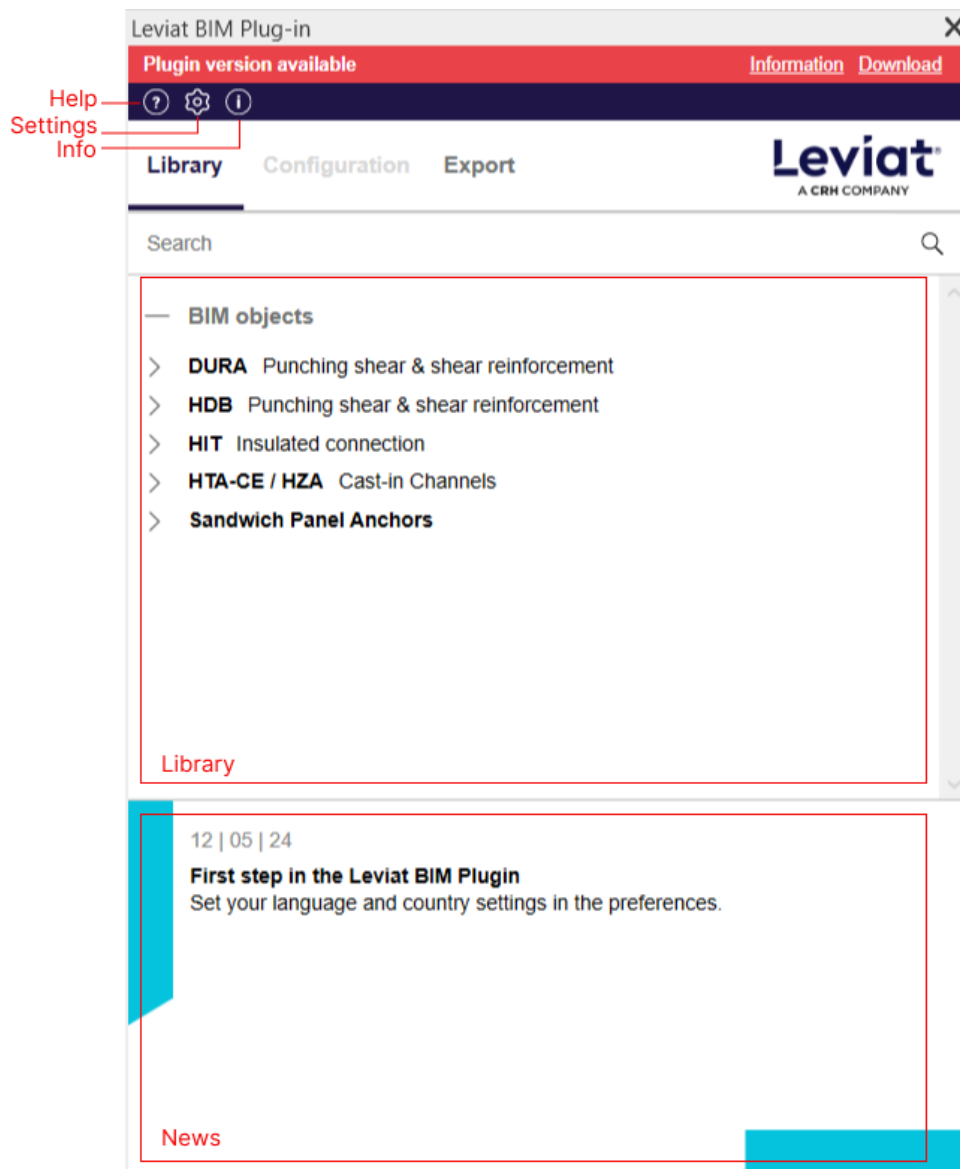


Figure 3 – Main plugin view

In the SETTINGS TAB, the user can configure the preferred project environment.

The user can select the PLUGIN LANGUAGE as well as the COUNTRY in which the project is being designed.

Note: The selected COUNTRY (LANGUAGE) affects the product range, product data and bill of material. This language will be applied to the attributes of the BIM objects. The changes will take effect immediately after setting and there is no need to press the SAVE button.

In the DEFAULT FOLDERS, the user can set the folder where the lists will be exported to. This folder can be changed by clicking on top of it.

The screenshot displays the 'Settings' tab with a dark blue header containing a back arrow and a gear icon. The main content area is divided into two sections, both outlined in red. The top section, titled 'Settings' and 'Project environment settings', includes a 'Plugin language' dropdown set to 'English' and a 'Select "Country / Language"' dropdown set to 'Germany (english)'. Below these are bullet points: 'Product range', 'Product data and classifications of BIM objects', 'Country - specific language formulations', and 'Order list with project informations'. A red warning message with an information icon states: 'Changing a country selection during an ongoing project can lead to problems due to some product range variations between countries. In such instances, product data for the BIM object will not be updated either.' The bottom section, titled 'Default folders', shows 'Export of lists' with the path 'C:\Users\Sonia\Documents' and a folder icon. The bottom section, titled 'Project Settings' and 'Share / change between projects', contains 'Current plugin settings' with a 'SAVE' button and 'Plugin settings of a different project' with a 'LOAD' button.

Figure 4 – Settings tab

The PROJECT SETTINGS allow the user to save/load the settings. This allows you to move between projects or share settings.

Saved are the project environment settings.

The CONFIGURATION tab opens when a product is selected from the LIBRARY. This can be done either by double clicking on the product in the Library or by pressing the CONFIGURE button at the bottom of the LIBRARY tab.

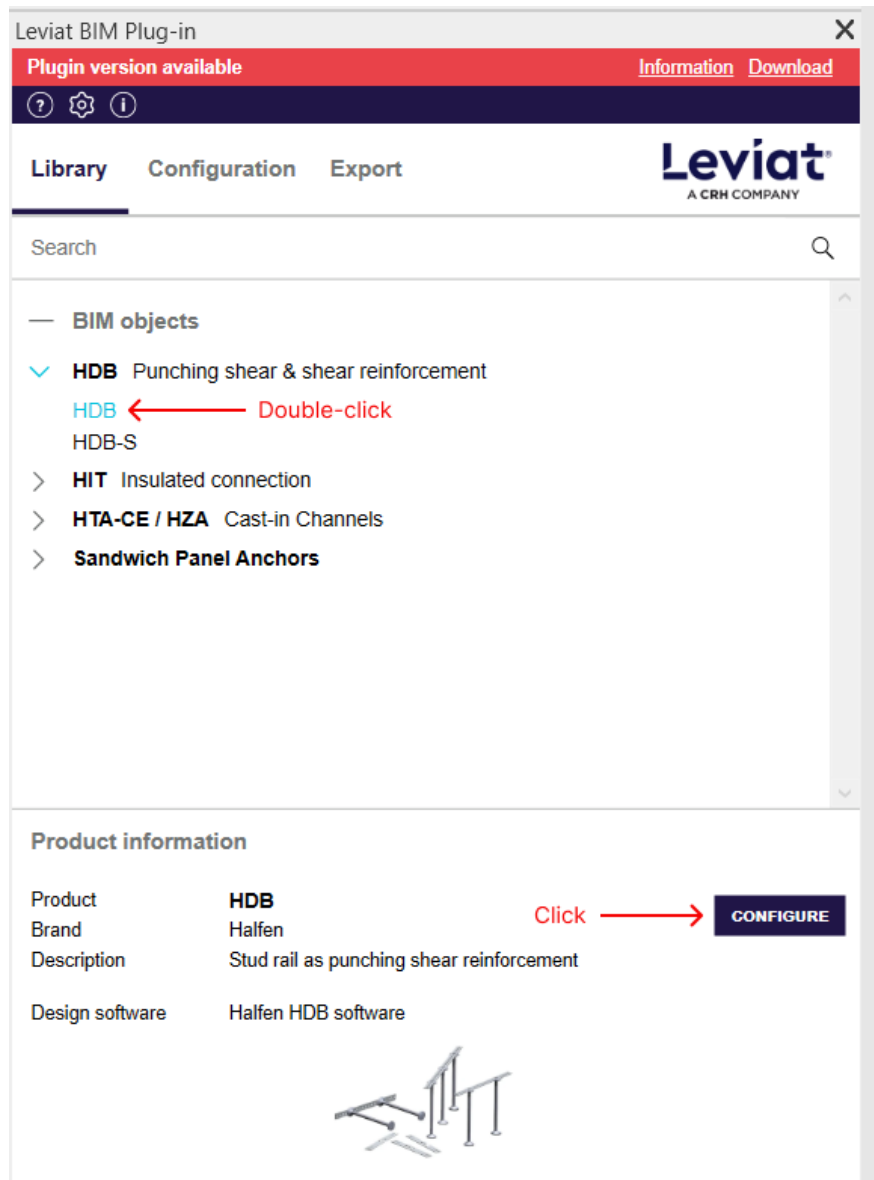


Figure 5 – Selecting a product to configure

Configuring a product

In the CONFIGURATION tab, the user can configure the product to obtain the desired type from the database.

The user has 2 possibilities to select a product type:

1. Copy a product code directly into the PRODUCT CODE text box and press ENTER.

Note: Any code can be inserted within a product. The product configuration is correct, although the fields of the product selection might not be adapted correctly. For some products as **DURA steelheads** only this option is available.

2. In the product selection area, select the desired values for each available property, depending on the product. Once all the properties have a value, the product code will be filled in automatically.

To insert an object into the model, the user must press the INSERT button. The MODIFY button will modify the currently selected object to the configured one. If nothing is selected in the model, the user is prompted to select the objects to be modified.

The user can also add custom parameter values when inserting or modifying an object under the PRODUCT DATA CONFIGURATION section. These are optional parameters.

The screenshot displays the 'Leviat BIM Plug-in' window, specifically the 'Configuration' tab. The window has a header with 'Plugin version available', 'Information', and 'Download' links. Below the header, there are tabs for 'Library', 'Configuration', and 'Export'. The main content area is titled 'Geometrical configuration HDB / HDB-S'. It features a 'Product code' field with the value 'HDB-10/155-2/220' and a clear button (X). Below this is a 'Type' section with a dropdown set to 'HDB' and a toggle for 'System elements with 2 or 3 studs'. Further down are five dropdown menus for 'Stud diameter' (10 mm), 'Stud height' (155 mm), 'Number of studs' (2), and 'Element length' (220 mm). A red box labeled 'Product Selection' encompasses these dropdowns. Below the main configuration section is a 'Product data configuration (optional)' section. It includes fields for 'Approvals and certifications' (eta), 'Comments to Leviat', 'Your reference', and 'Classification' (NL-SfB code). A red box labeled 'Optional parameters' encompasses these fields. At the bottom right, there are 'INSERT' and 'MODIFY' buttons. Red lines with labels point to the 'Clear configuration' button (X), the 'Product Code' field, the 'Product Selection' area, and the 'Optional parameters' area.

Figure 6 – Configuration tab

Offsets in Revit

All Leviat objects inserted from the Leviat BIM Plugin can be offset from the surface they are placed in. Users can do this using the "Offset from face LEVIAT" instance parameter.

Note: Negative values are not allowed.

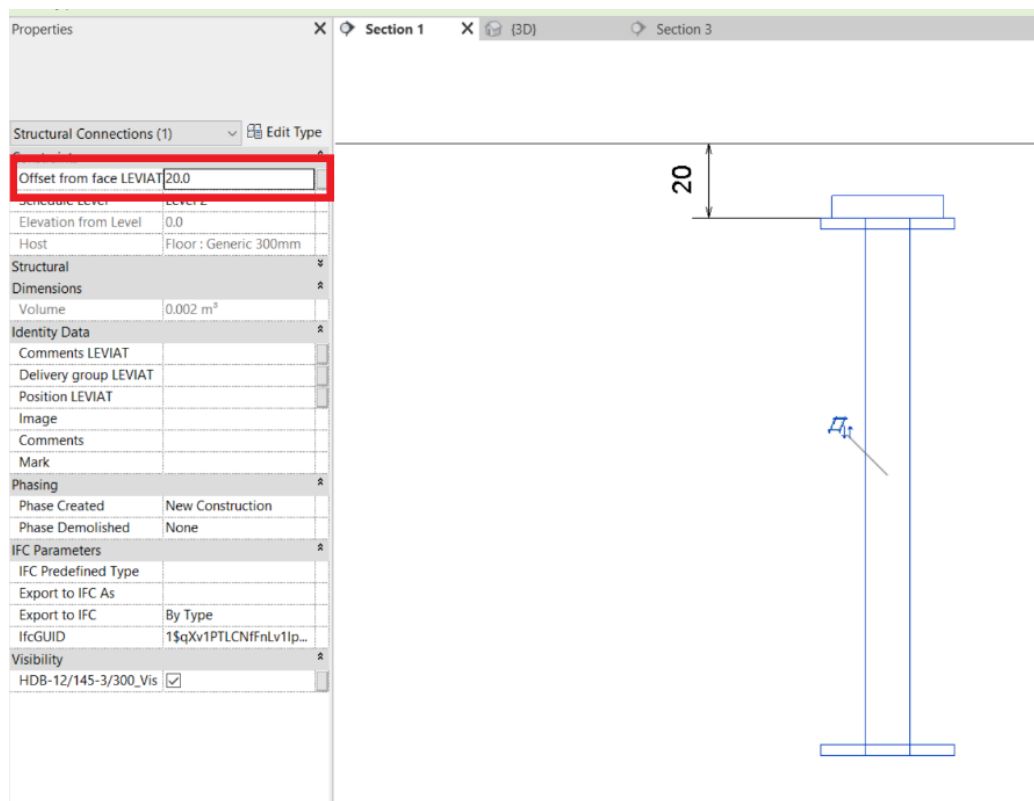


Figure 7 – Offset parameter in Revit

New Visualization option

This new functionality in Revit allows the user to have a product that works with multiple states via a visibility property. If the product has this functionality, this will be automatically added to the BIM object by the Leviat BIM Plugin. For example, the rebend connectors can have a “contained” rebar state (image on the left) and “open” rebar state (image on the right).

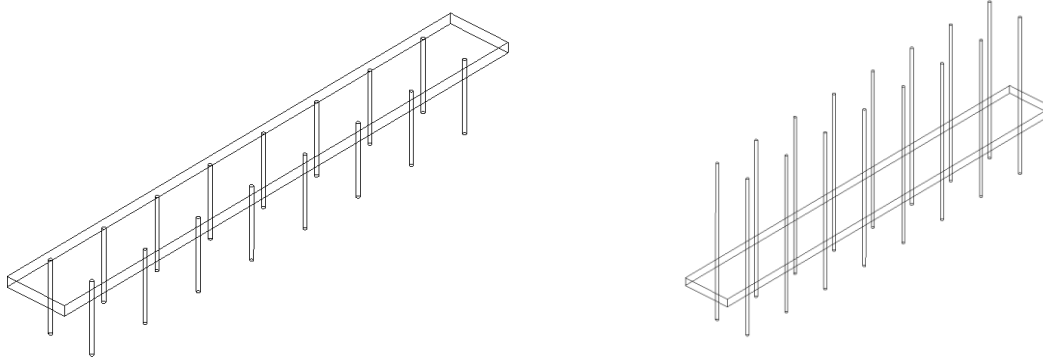


Figure 8 – BIM object states

The Revit user can switch between states using the instance visibility properties that are added to the BIM object after insertion.

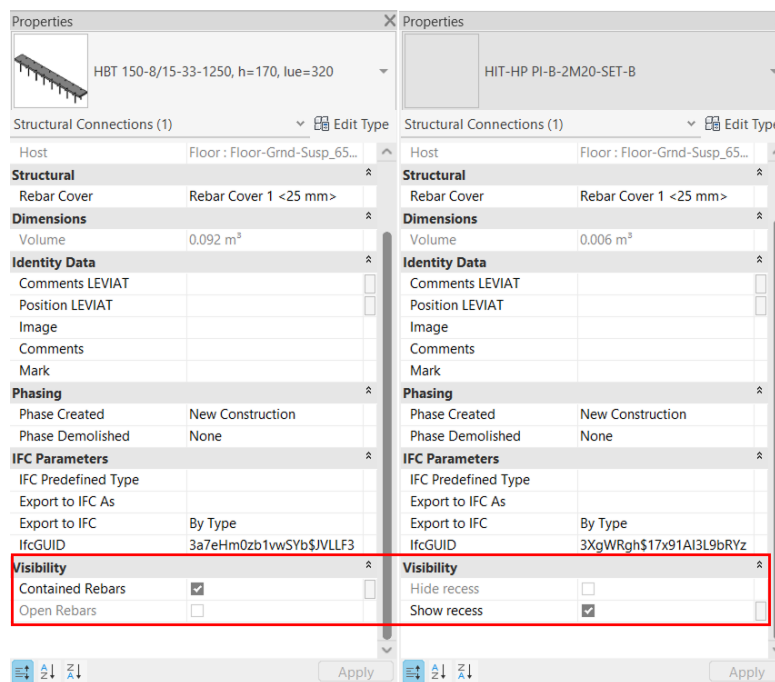


Figure 9 – Example of visibility properties for 2 BIM object states

Multipart nest families

There are some Leviat products that are composed of multiple elements that can be ordered separately. This is the case with HIT-PI (image below), which is composed of SET B and SET F put together.

In Revit, this will be represented by two families that go inside a main family – a nested family. Although, this will not be reflected in the Export menu (check section “Creating a list of objects in Excel”) but only in the internal Revit Schedules.

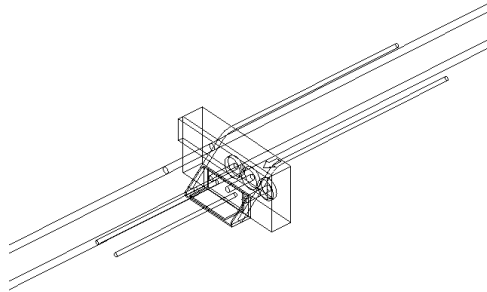


Figure 10 – HIT-PI example as a nested family

Creating a list of objects in Excel

The EXPORT tab allows the user to export the list of the selected Leviat objects in the model to Excel. The Excel templates vary according to the selected project environment.

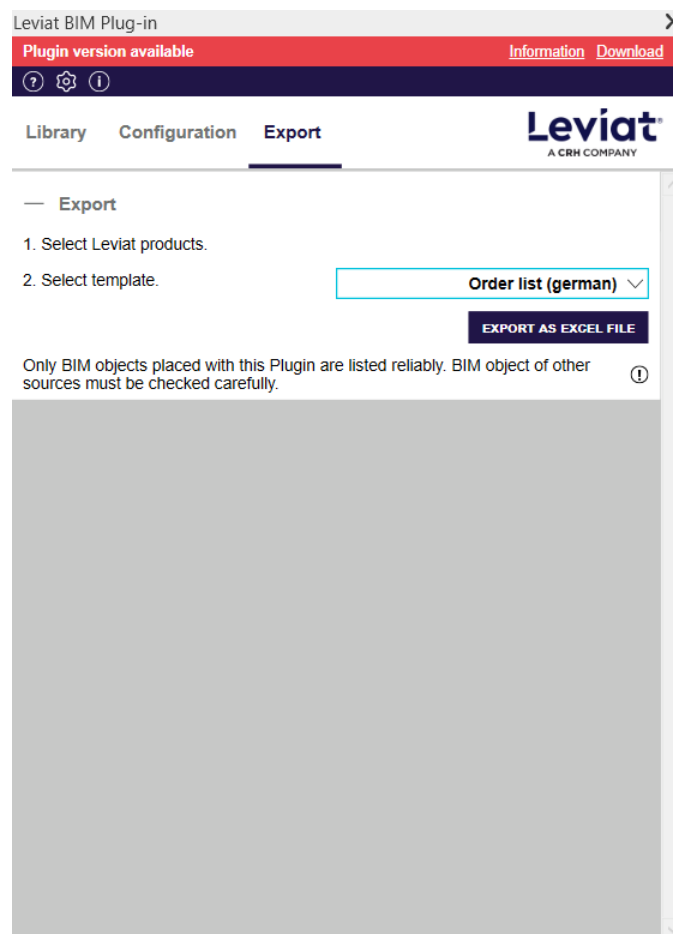


Figure 11 – Export tab

Advanced installation options

Adjust the path for locally stored plugin data

This may be necessary if the plugin interrupts the update process at plugin startup. Adjust then the path for locally stored plugin data. You will need permissions to write and delete data in the selected folder.

Note: OneDrive or other folders that require you to close a pop-up when deleting or performing similar actions may cause problems or fail to update later.

Open the Registry editor on your PC. You might need to contact your IT Administrator for that action.

1. Open the following folder: Computer\HKEY_CURRENT_USER\SOFTWARE\Pro Engineers\Leviat\BIM-Plugin
2. Right click on “AppDataPath” and select “Change”.

Change the path to a folder where you have the rights to read and write data.



Figure 12 – Paths in Registry

Customized parameter mapping

If you are interested to map product data to another parameter or add values, please contact bim.support@leviat.com.

Silent installation

If you are interested in a silent installation option, please contact bim.support@leviat.com.

Errors and known issues

Plugin update failed

If you want to open the Plugin and get this error message, follow these instructions: Adjust the path for locally stored plugin data.

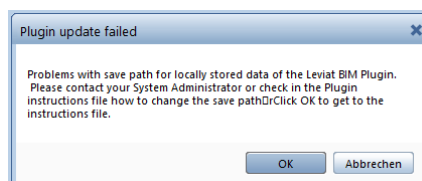


Figure 13 – Error while starting up plugin

Then restart REVIT.

Missing credentials issue

In a recent update (version 4.0.0.1), and due to an upgrade on the plugin security, some clients have been facing an issue when trying to configure a product in the plugin (see image below).

This issue should be fixing from version 4.0.0.2 onwards. If not, please contact bim.support@leviat.com.

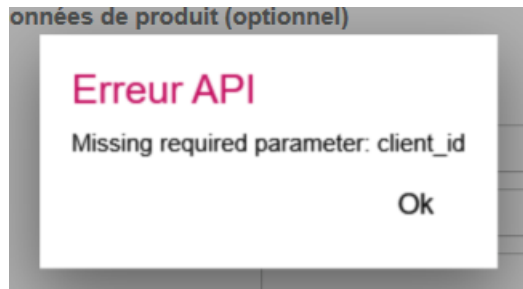


Figure 14 – Missing credentials pop-up issue