

# **REVIT Leviat BIM Plugin instructions**

#### Plugin Version : 4.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 the 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.

Benutzerkontensteuerung	×	
Möchten Sie zulassen, dass durch diese App Änderungen an Ihrem Gerät vorgenommen werden?	Setup-Sprache auswählen	×
Leviat.Bim.2_Release_Revit_2024 Setup Verifizierter Herausgeber: Leviat AG Dateiursprung: Festplatte auf diesem Computer Weitere Details anzeigen	Wählen Sie die Sprache aus, die während der Installation benutzt werden soll: English OK Abbrechen	
Ja Nein	1	

Follow the next steps by clicking "Next" and "Install".





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

Setup - Leviat.Bim.2_Release_Revi	it_2024 version 3.0.0.1 — 🗆 🗙
Tom	Completing the Leviat.Bim.2_Release_Revit_2024 Setup Wizard Setup has finished installing Leviat.Bim.2_Release_Revit_2024 on your computer. Click Finish to exit Setup.
	Back



#### 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).

File Architecture	Structure	Steel	Precast	Systems	Insert	Annotate	Analyze	Massing & Site	Collaborate	View	Manage	Add-Ins	Leviat
Show/Hide													
Plug-in													

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.

	Leviat BIM Plug-in	X
Help		
Info —	Library Configuration Export	Leviat.
	Search	Q
	<ul> <li>BIM objects</li> <li>DURA Punching shear &amp; shear reinforcement</li> <li>HDB Punching shear &amp; shear reinforcement</li> <li>HIT Insulated connection</li> <li>HTA-CE / HZA Cast-in Channels</li> <li>Sandwich Panel Anchors</li> </ul>	~
	Library 12   05   24 First step in the Leviat BIM Plugin Set your language and country settings in the preferences.	
	News	

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.

≪ �	
— Settings Pr	oject environment settings
Plugin language	
Language of the user interface	
	English 🗸
Select "Country / Language"	
Product range	
Product data and classifications of BIM obje	ects
Country - specific language formulations	
Order list with project informations	
	Germany (english) $\lor$
Changing a country selection during an oproblems due to some product range var such instances, product data for the BIM either.	ongoing project can lead to riations between countries. In object will not be updated
Default folders	
Export of lists <u>C:\Users\Sonja\Documents</u>	
<ul> <li>Project Settings</li> <li>Share</li> </ul>	/ change between projects
Current plugin settings	SAVE
Plugin settings of a different project	LOAD

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.

Leviat BIM Plug-in Plugin version availa	ble	Information Download
0 \$ I		
Library Config	guration Export	
Search		Q
- BIM objects		
V HDB Punching	g shear & shear reinforcement	
	Double-click	
> HIT Insulated	connection	
> HTA-CE / HZA	Cast-in Channels	
> Sandwich Pan	el Anchors	
		~
Product informat	tion	
Product	HDB	
Brand	Halfen	CONFIGURE
Description	Stud rail as punching shear reinforcement	
Design software	Halfen HDB software	

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.

Leviat BIM Plug-in	×	
Plugin version available	Information Download	
() \$\overline{0}\$		
Library Configuration Export	Leviat COMPANY	
Geometrical configuration HDB / HDB-S	^	- Clear configuration
Product code	HDB-10/155-2/220 📩	— Product Code
Туре	HDB	
System elements with 2 or 3 studs	•	
Stud diameter	10 mm 🗸	- Product Selection
Stud height	155 mm 🗸	
Number of studs	2 🗸	
Element length	220 mm 🗸	
— Product data configuration (optional)		
Approvals and certifications	eta	
Comments to Leviat	×	— Optional parameters
Your reference	×	
Classification		
NL-SfB code	×	
	INSERT MODIFY	

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" parameter.

Note: Negative values are not allowed.

Properties		×¢	Section 1	X 🔂 (3D)	Section 3	
Structural Connections	(1) 🗸 🗄 Edit Typ	pe				
Offset from face LEVIA	T 20.0	1			50	
Schedule Level	0.0					
Elevation from Level	0.0					
Host	Floor : Generic 300mm					
Structural		°.				
Dimensions	0.0031	×				
volume	0.002 m*	1				
dentity Data		×.				
Comments LEVIAT						
Delivery group LEVIAT		4				
Position LEVIAT						
Image		+				47 <sub>tt</sub>
comments						
Mark						
Phasing		<u>^</u>				
Phase Created	New Construction					
Phase Demolished	None					
FC Parameters						
IFC Predetined Type		+				
Export to IFC As	0.7	+				
Export to IFC	By Type	+				
ItcGUID	1\$qXv1P1LCNfFnLv1lp_					
Visibility		<u>_</u>				
HDB-12/145-3/300_Vis						

Figure 7 – Offset parameter in Revit



## 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.

Leviat BIM I Plugin vers	Plug-in ion available		Information Do	X wnload
()	)			
Library	Configuration	Export		
— Ехро	rt			
1. Select Le	eviat products.			
2. Select te	emplate.		Order list (german	) ~
			EXPORT AS EXCEL F	ILE
Only BIM o sources mu	bjects placed with th ust be checked care	his Plugin ar fully.	e listed reliably. BIM object of other	
				$\sim$





# 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 9 – 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 / warnings**

#### Plugin update failed

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



Figure 10 – Error while starting up pluign

Then restart REVIT.