

Opt Plugin for Revit

Installation & Usage Guide

V1.0

株式会社 3D エキスパート

2025

www.opt3ds.com

Version History

Version/Status	Author	Participant	Start/End Date	Modification Order Instructions	Approv er
Formally released V1.0			2025.01.21	Formally create document	

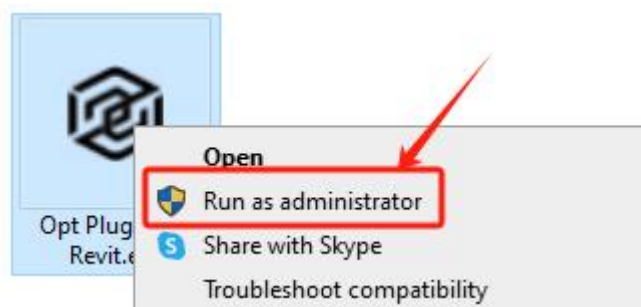
I、 Overview

The Revit Lightweight Plugin is independently developed by 株式会社 3D エキスパート (hereinafter referred to as our company) for exporting Revit model files in glzip format. This file is used for our company's "Opt Converter" and "Opt Loader" series products to perform model format conversion or high-performance lightweight rendering processing.

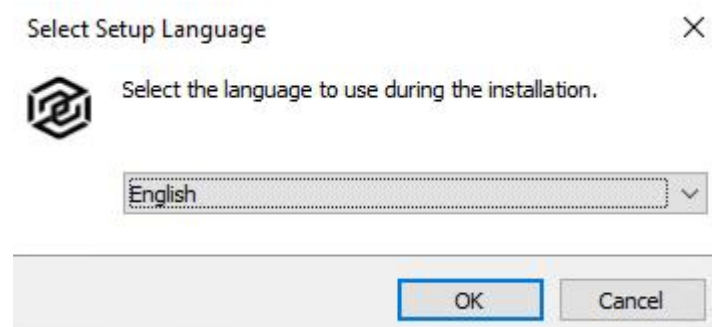
II、 Software installation

Please close Revit modeling software before installation, The plugin supports Revit 2014-2025 64-bit version.

1. Right click on the "Opt Plugin For Revit. exe" program and run it as an administrator.



2. Choose the installation language that suits you.



3. Click Next to continue the installation.

Welcome to the Opt Plugin For Revit Setup Wizard

This will install Opt Plugin For Revit v4.0.0208 on your computer.

It is recommended that you close all other applications before continuing.

Click Next to continue, or Cancel to exit Setup.



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Next

Cancel

4. Check 'I agree the agreement' and click 'Next' to continue the installation.

License Agreement

Please read the following important information before continuing.



Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.

It is important that you carefully read and understand all the rights and limitations set forth in the End User License Agreement (hereinafter referred to as the "Agreement"). At the time of installation, you will need to carefully read and decide whether to accept or not accept the terms of this Agreement. The Software may not be installed on your computer/server unless you accept the terms of this Agreement. The Software includes the accompanying computer program and any later releases or upgrades of the Software and may include related electronic documentation and printed materials. By installing the Software, you agree to be bound by the terms of this Agreement. This Agreement is as valid as any negotiated written agreement signed by you. If you do not agree to the terms of this Agreement, you may not install or use the Software.

1. Intellectual Property Rights

The Software (including, without limitation, any images, photographs, animations, video recordings, sound recordings, music, text and additional programs contained in the Software, related electronic files and printed materials) are protected by national copyright laws and the terms of international agreements. The structure, organization and code of the Software are valuable trade secrets and confidential information. You may not copy or use the Software outside the scope of the license authorization in this Agreement. This Agreement's authorization for you to use the Software does not

☒ I accept the agreement

☐ I do not accept the agreement

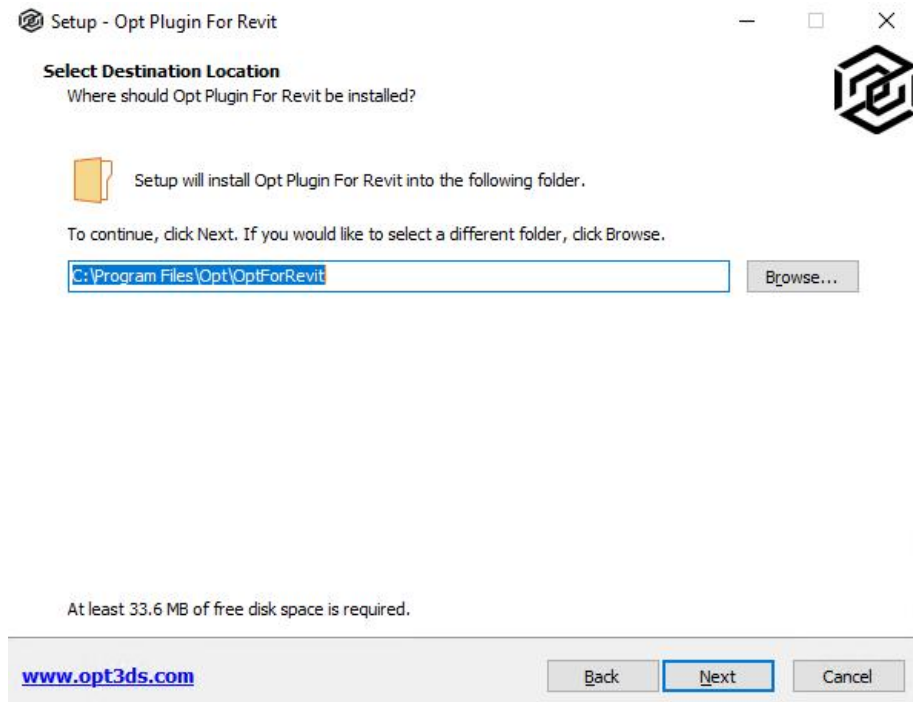
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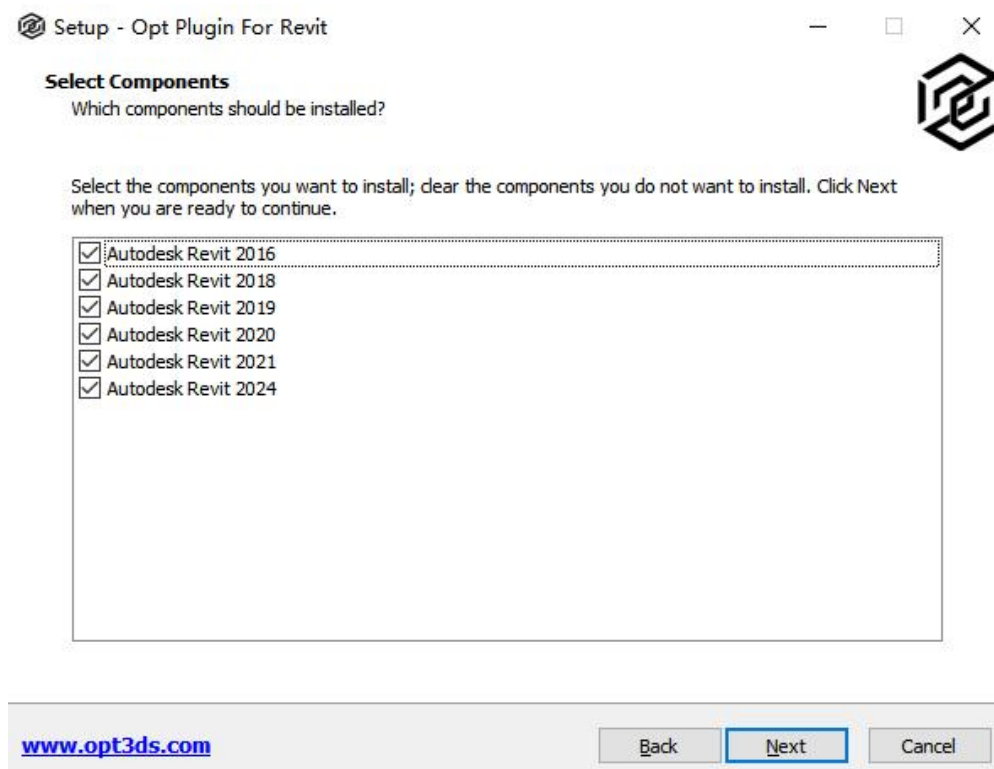
Next

Cancel

5. Enter the installation address selection page, which defaults to C:\Program Files\Opt\OptForRevit. You can click the "Browse" button to customize and select another installation address.

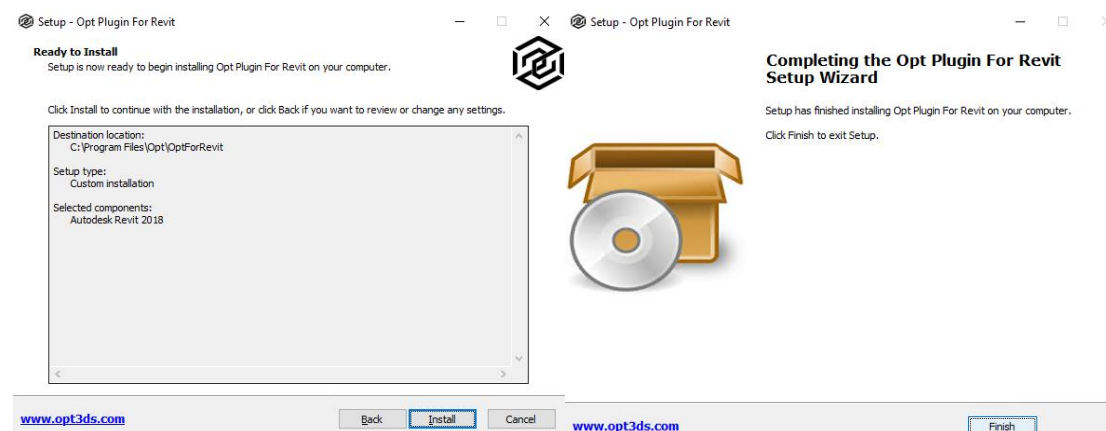


6. When entering the version selection page, the current installed Revit modeling software version on the computer will be read by default and automatically checked. Currently, Revit 2014-2024 64 bit version is supported. Click Next to continue installation.



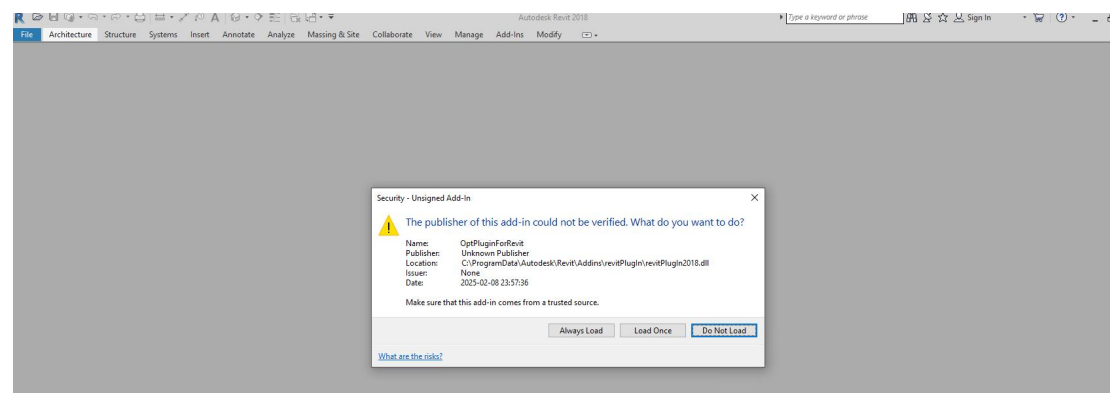
7. Click the 'Install' button. Plugin installation begins; After installation, there will

be a prompt page indicating the completion of the installation. Click "Finish" to end the installation program.

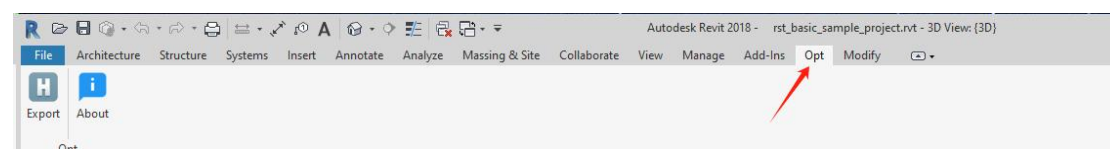


III、Instructions for use

1. After installing the Opt Plugin For Revit, when you first open the Revit software, a pop-up window will appear as shown in the following figure. Please select the "Always load" option, which will not affect the normal use of Revit. After selecting it, this pop-up window will not appear the next time you open Revit.



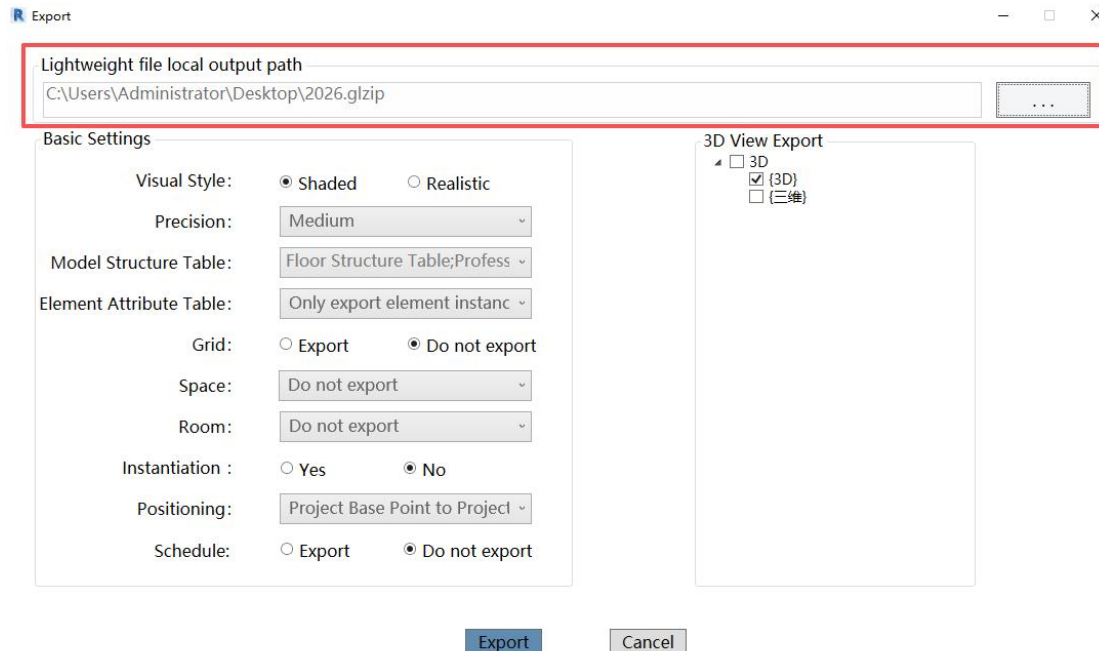
2. After closing the pop-up window, you can see the "Opt" menu in the title bar. Click to see two submenus. The "Lightweight Export" menu is the setting item for exporting the glzip model file, and the "About" menu contains product information and company information for the plugin.



3. Click on the "Lightweight Export" menu, and the export settings page will pop up. The default path of the output glzip model file is the same as the path of the

currently opened Revit model.

You can also click the "..." button on the right side of the address bar to customize the path selection and name setting for the output glzip model file.



You can set the export options for Revit models according to the options in the above panel.

Explanation of the meanings of the above panel options:

- Visual Style: Visual styles are divided into Realistic and Shaded. In real mode, texture and other information will be exported, while shading mode will not export texture and other information.

- Precision: Divided into three levels: fine, medium, and rough, the display detail level of the guided geometric model is set to medium by default.

- Model Structure Table: Select model structural data exported from Revit models, with the option to export 0 or more model structural data.

- ① Floor Structure Table: Includes Floor ->Family Category ->Family ->Family Type ->Component.

- ② Professional Structure Table: Includes Family Category ->Family ->Family Type ->Component.

- ③ Group Structure Table: Includes Model Group ->Sub Model Group (can be

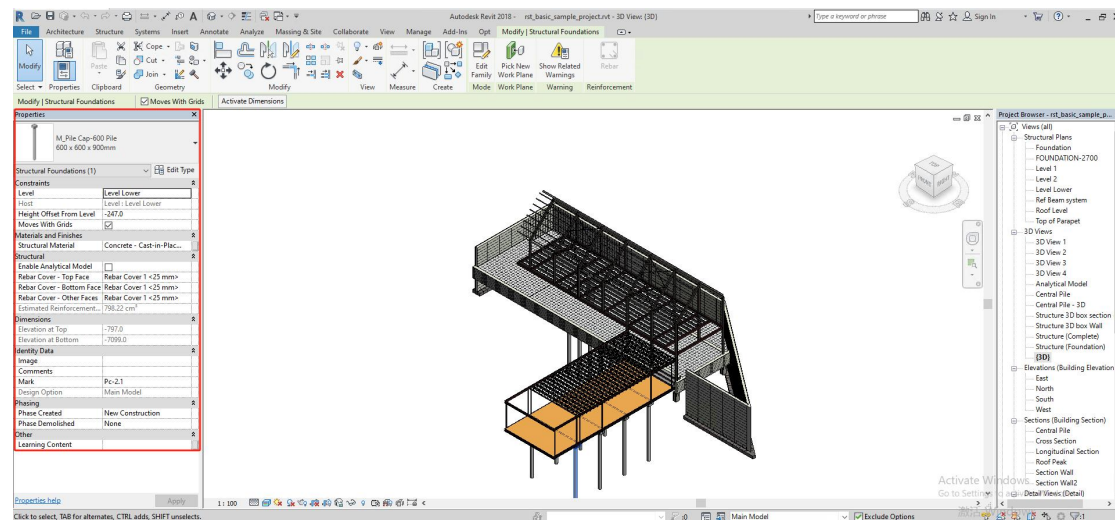
multi-level) or Component ->Component (if the parent is a model group).

④ Workset Structure Table: Includes Workset ->Component.

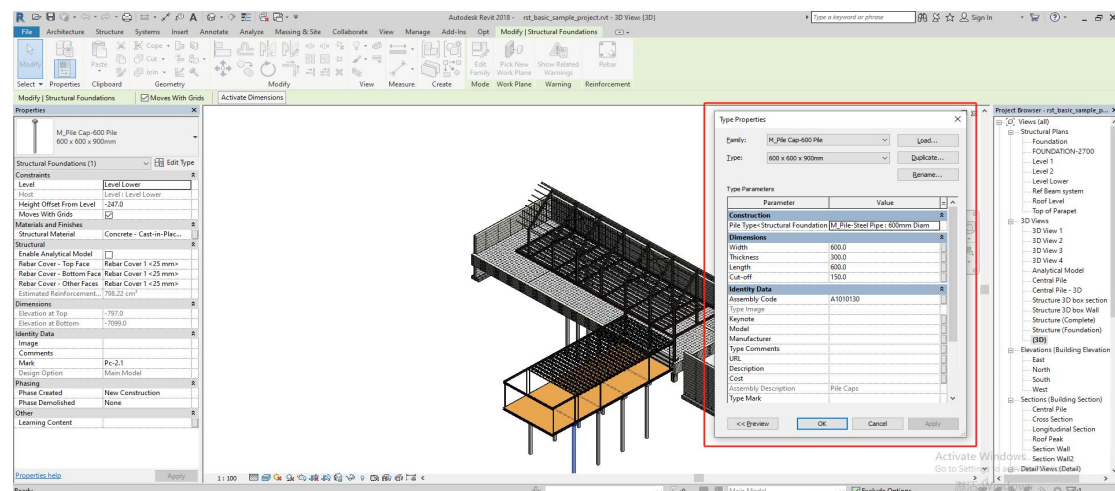
⑤ Element Foundation Table: Includes Component ID, Component Name, Family Category, Family, Family Type, Floor.

● Element Attribute Table:

① Only export element instance properties: The component properties table only stores the properties of the component instance, as shown in the properties panel below.



② Export component instance properties and family type properties: Store component instance properties and the family type properties of the component's family, as shown in the two parts of the box selection in the following figure.



③ Do not export(model_depty): Do not export any component attribute data.

- **Grid** : divided into exported axis grid and non exported axis grid. Does the grid information created in the Revit model need to be exported.

- **Space** : Does the spatial view in the Revit model need to be exported. There are three options: default no export, spatial intersection export, and spatial internal export.

The intersection of spaces includes the export of components within the space and all components in contact with that space.

Internal space refers to exporting only components that are entirely within that space.

- **Room** : Does the room in the Revit model need to be exported. Divided into default no export, room intersection export, and room internal export.

The intersection of rooms includes the components inside the room and the export of all components that come into contact with the room.

The interior of the room refers to exporting only the components that are all located inside the room.

- **Instantiation** : If there are many identical components in the model and the glzip model file is exported for use in Opt Loader, and LOD loading mode is not selected in Opt Loader, it is recommended to choose this option. In other cases, this option does not need to be selected.

- **Positioning** : Used for aligning spatial positions in Opt Converter or Opt Loader after exporting multiple Revit models.

The options are: Origin to Origin, By Shared Coordinates, and By Shared Coordinates.

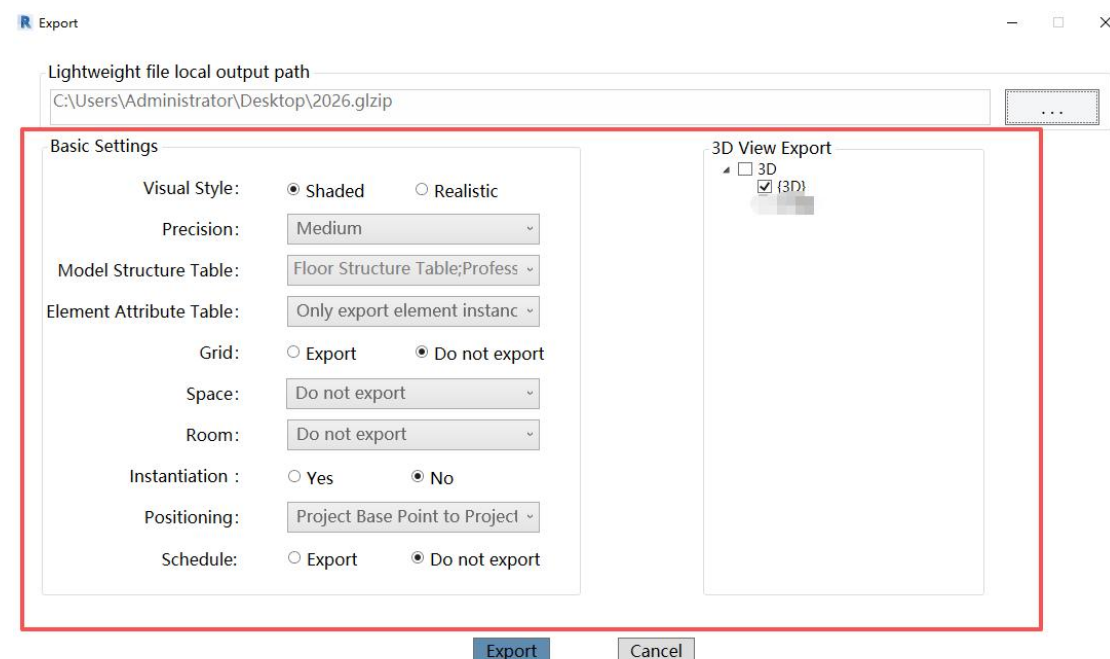
Origin to Origin : In a scene, multiple Revit models use internal origins to align their spatial positions. When the exported Revit model uses the internal origin method for spatial position definition, please select this method.

By Shared Coordinates : In a scene, multiple Revit models use shared coordinates to align their spatial positions. When the exported Revit model uses the shared coordinate method for spatial position definition, please select this method.

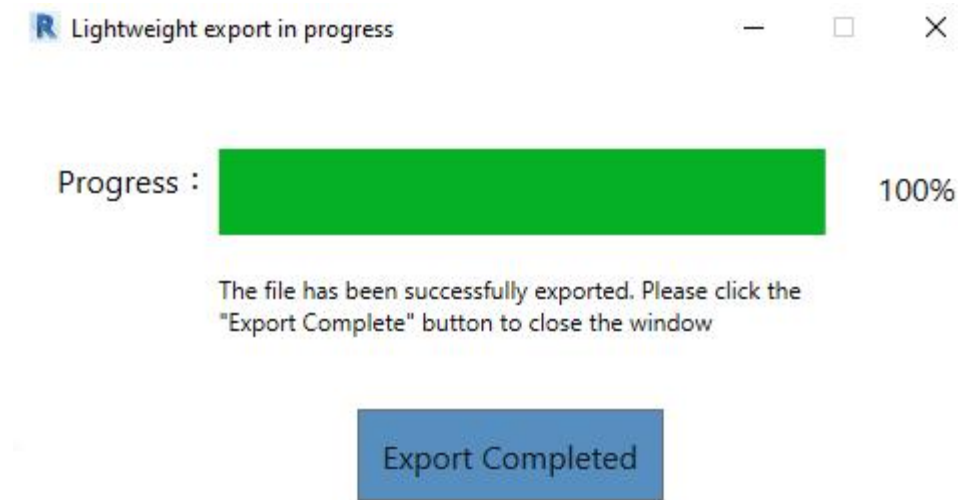
Project Base Point to Project Base Point: In a scene, multiple Revit models use project base points to align their spatial positions. When the exported Revit model uses the project base point method for spatial position definition, please select this method.

- **Schedule:** Export the detailed list entries in the model as a CSV file for use.
- **3D View Export:** Display all 3D views in the Revit model in a panel, with the option to export a single 3D view or multiple 3D views.

The default check is: {3D} or 3D view. Each Revit model must have at least one 3D view selected in order to successfully export the glzip model file.



4. After setting all panel options, click the "Export" button, and an export progress bar will pop up. If there are a large number of Revit model components, the progress bar may wait for a long time at the 10% position. Please be patient and wait.



5.After exporting the progress bar to 100%, click "Export Complete" to exit the current page. In the export path, you can see the exported glzip model file, which contains the geometric and attribute data of the model.

IV、 Software uninstallation

In the computer control panel, select "Opt Plugin For Revit" from the uninstall software options, and click uninstall to complete the process;

Please note that when uninstalling Opt Plugin For Revit, please close the Revit modeling software.

