



What's New

PowerPack for Autodesk Revit 2026



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1. Welcome to Graitec PowerPack for Revit 2026

We are thrilled to announce the release of the latest version of PowerPack for Revit 2026. This update introduces several new features to streamline BIM workflows, especially in terms of simplifying error identification and correction within analytical models.

Additionally, users will enjoy enhanced graphical visualization features, including the ability to distinguish information in models through color coding. With this update, we continue our commitment to enhancing PowerPack for Revit's performance and user experience, and we are confident it will be a significant benefit to our users.



2. PowerPack for Revit

2.1. Performance optimization

The current version of the software features a significant improvement in terms of performance, particularly regarding launch speed. Compared to the previous version, this update stands out for its noticeably higher responsiveness and significantly reduced time.

In this release, we have addressed several key issues affecting model performance, export reliability, and reinforcement parameters. Our improvements focus on optimizing background processes and enhancing stability during BIM Connect exports.

This enhancement is aimed at providing smoother user experience and improving the overall performance of the software.

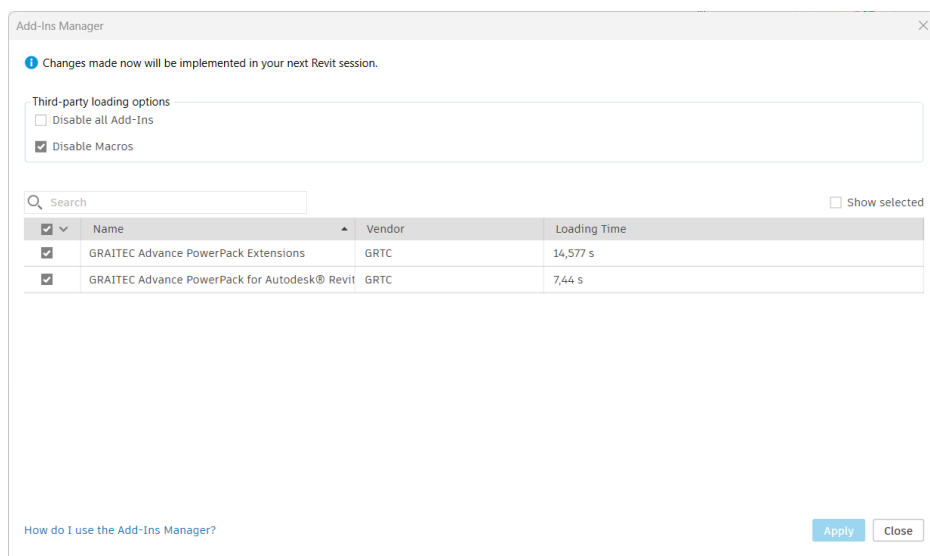
2.1.1. Improved launch speed

With the new updates, the PowerPack launch is now 3 to 5 times faster during startup. This enhancement greatly improves user experience, especially when opening the application frequently. The exact speedup may vary depending on each machine's processing power.

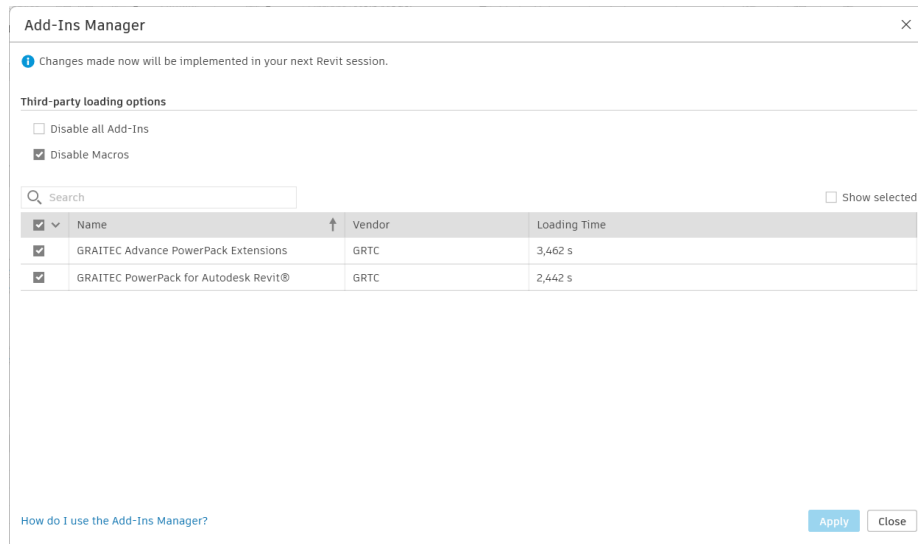
In addition to startup improvements, several operations in large-scale projects, particularly those involving a high number of elements, have been significantly optimized. These tasks now run 13 to 16 times faster, allowing for smoother workflows and reduced waiting time during modeling.

Finally model export to Arche and Advance Design has also been enhanced. Export processes now show speed gains ranging from 1.5 to 2.5 times, improving interoperability and saving time in collaborative structural workflows.

The figures below show a comparison of launch speed between version 2025.1.2 and version 2026 of the software.



Launch time – version 2025.1.2



Launch time – version 2026

P.S.: The time shown in the figures depends on each computer's processing performance, so it may vary from one machine to another.

All the listed improvements are available in PowerPack 2026, including a significantly faster startup time for enhanced user experience.

For customers still working with Revit 2025, we've released PowerPack 2025.1.3, a hotfix that includes all these enhancements, except the faster startup, which remains exclusive to Version 2026.

You can download version PowerPack 2025 1.3 here:

- <https://download.graitec.com/Advance2025.1/SetupAdvancePPR2025.1.3.exe>.

2.1.2. Revit Reactor optimization

Some users experienced long model update times and persistent background activity after BIM Connect exports. This was caused by Revit's Internal reactors that track elements. In this update, we fixed these issues by optimizing reactor use to reduce unnecessary background processes, eliminating excessive update delays post-exports, and making the model work faster overall.

2.1.3. BIM Connect export enhancements

- **Reliable full-model exports**

Exports no longer fail when certain categories are visible. Exporting large or complex models is now more stable, faster, and compatible across workflows.

- **Reduced Processing Times**

Export time and post-export background activity have been significantly reduced, improving overall responsiveness.

2.1.4. Shared Parameters: G.AverageDiameter & G.Reinforcement Ratio

Some reinforcement parameters behaved incorrectly, causing modeling errors. Values sometimes duplicated, didn't update, or failed to reset when reinforcement was removed. In this release, we fixed:

- Duplication of G. Average Diameter on model opening.
- Proper updating of parameters after geometry changes.
- Automatic rest of values to zero when rebars are deleted, restoring previous behavior.
- Stopped creating and updating parameters in models without reinforcement, improving performance.

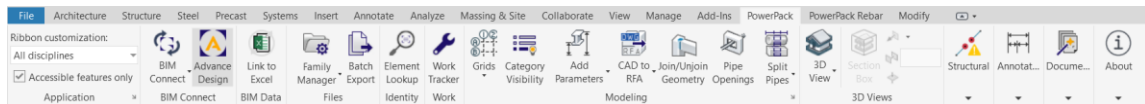
2.1.5. Reinforcement calculation

We improved performance when working with reinforced slabs and large elements. Slab sketches now replace full geometry regeneration, support checks are faster, and reinforcement updates run only when needed.

2.2. Refine and Simplify Tool Collection

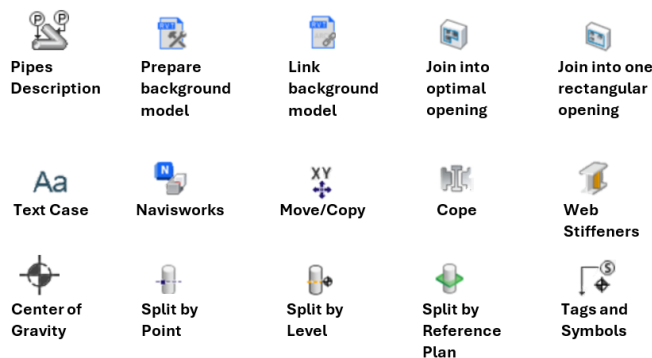
As part of our ongoing commitment to improve our user experience and to deliver more efficient software environment, we have reviewed and optimized several features of the tool.

To reduce redundancy, streamline the ribbon, and improve performance, some functionalities have been removed – particularly in cases where native Revit tools now offer equivalent or improved capabilities. For example, features like generating the center of gravity can now be achieved through a simple Dynamo script, eliminating the need for an additional built-in tool.



PowerPack Ribbon

These adjustments aim to make the software lighter, faster, and more intuitive, aligning with the evolving capabilities of the Revit. We're continuously working to refine the experience.



Removed Features

2.3. New Functionalities

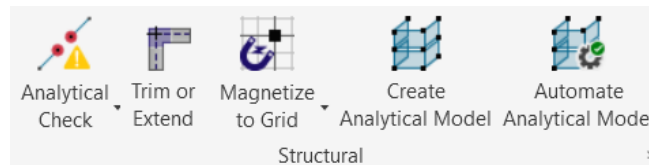
To facilitate the correction of analytical models in Revit, new automatic tools are proposed. Currently, to resolve misalignment issues for slabs and beams, users must manually select the analytical element and use the "move" function in a section view to align horizontal elements to the nearest level, which can be time-consuming.

The proposed new function aims to streamline this process by allowing users to magnetize horizontal analytical elements to the nearest level within a user-defined tolerance for alignment. This feature would enable us to select the entire model at once for magnetization to the closest levels and define the tolerance in the structural configuration.

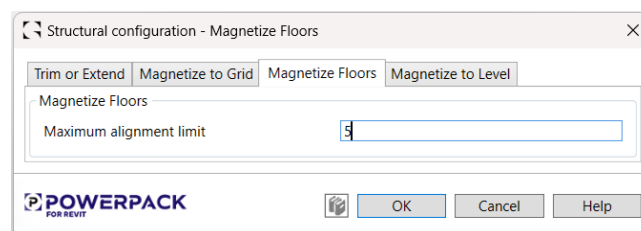
2.3.1. Magnetize Floors

To facilitate the adjustment of floors, the tool **"Magnetize floors"** identifies the walls and **adjusts the floor boundary**. It is important that all the walls are connected and at the same level as the floor. The tool will be adjusting the boundary if the **highest associated level** of the wall matches the **associated level of the floor**. It's possible to select multiple floors and make the adjustments automatically. You can define the limit of the distance between the floor and the wall for the adjustments, the maximum distance considered is in the corner.

Step 1: Setting the distance limits.

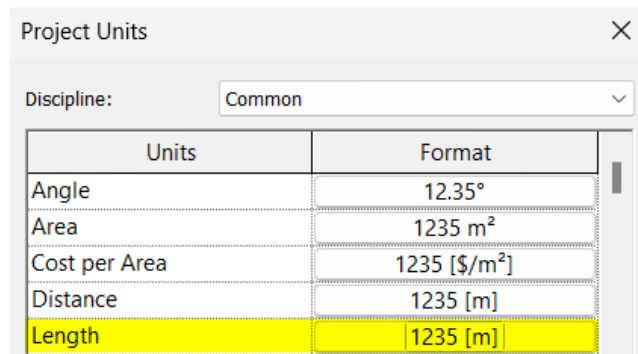


Limit settings – Magnetization



Magnetize Floors configuration window

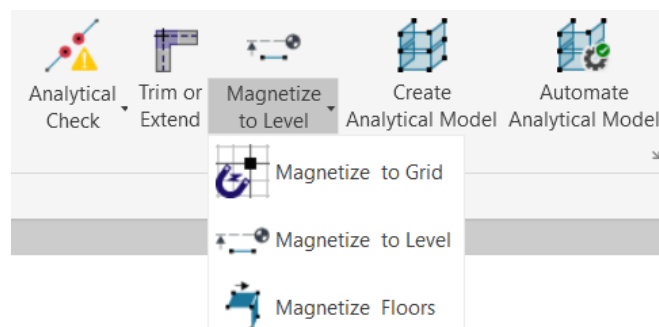
In this example, we will use 5 for the 'maximum alignment limit'. The value mentioned inherits the unit and format settings from the Length parameter in Revit Project Units. Additionally, elements with a slope under two degrees are horizontally aligned to levels.



Unit settings – Magnetization

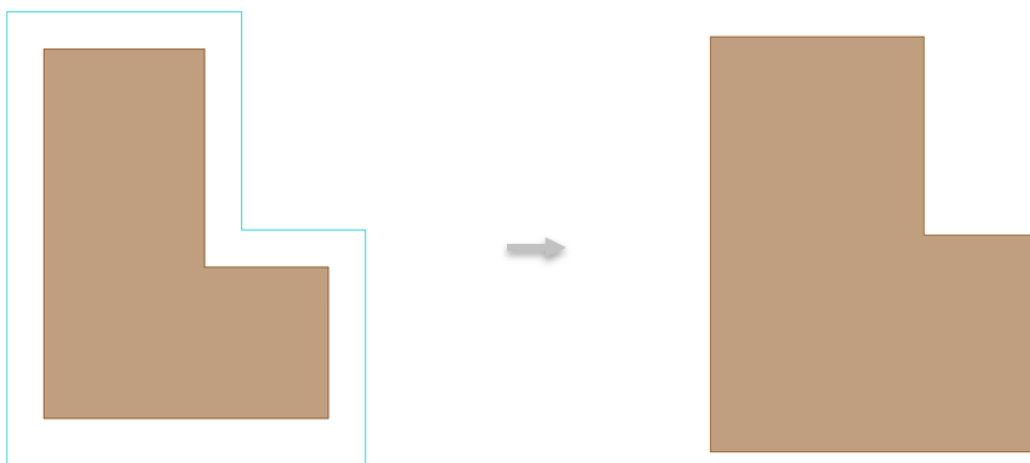
Step 2: Activating the tool.

So, you can select the elements and click in the tool “magnetize floor” or you can select the tool first and after select the floor you want and click in the bottom “finish”.

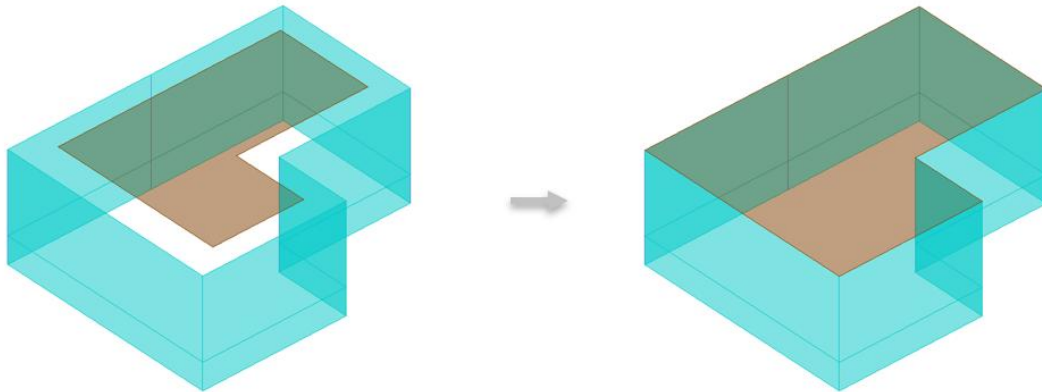


Example of Magnetizing Floors

The tool will then make the adjustments automatically, as shown in the example below:



Example of Magnetize floor – Plan view

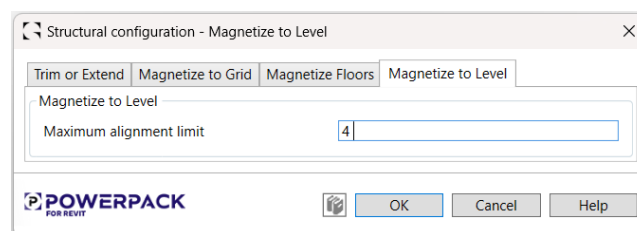


Example of Magnetize floor - 3D view

2.3.2 Magnetize to Level

Aligning analytical beams and floors to the nearest level automatically, it is possible now. The command “**Magnetize to level**” helps **to align analytical elements to a level**, allowing the user to correct any flaws in the model by ensuring that objects are properly aligned. This command is especially useful for ensuring that objects are precisely placed within a 3D environment without the need for manual adjustments.

Users need to define first the **maximum alignment limit** in Structural configurations. In the “Magnetize to Level” settings, the “maximum alignment limit” value represents the maximum allowable distance between the floor plane and the reference level line. You can manage the distance tolerance in the structural settings Panel.

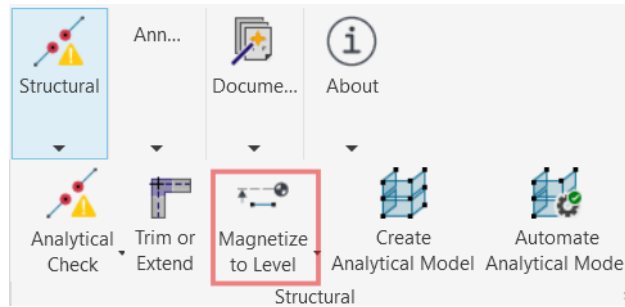


Magnetize to level configuration window

Note

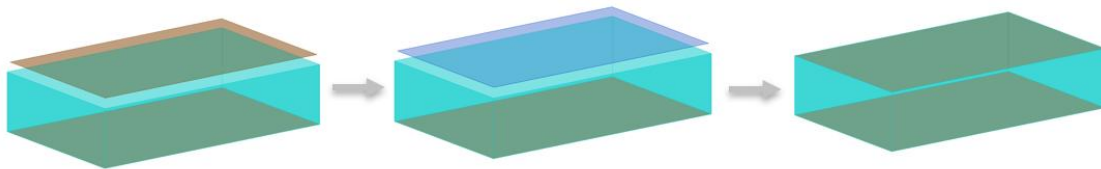
For distances equal or less than this value, the selected analytical elements are automatically aligned to the nearest level.

The tool is available in the **PowerPack Ribbon >> Structural >> Magnetize to level**.



The command Magnetize to level

After selecting this command, a user needs to select elements to magnetize. Users can select multiple elements to magnetize at the same time and click on “Finish”.



Example of Magnetizing to Level

2.4. Updates

As part of a continuous improvement approach, updates are being made to certain commands and tools. These improvements are intended to better align with current needs and ensure more efficient day-to-day use.

By implementing these updates, we can significantly reduce the time spent correcting analytical models and avoid the need for manual adjustments for each element with similar alignment issues, improving efficiency in model correction processes.

2.4.1. Analytical Check

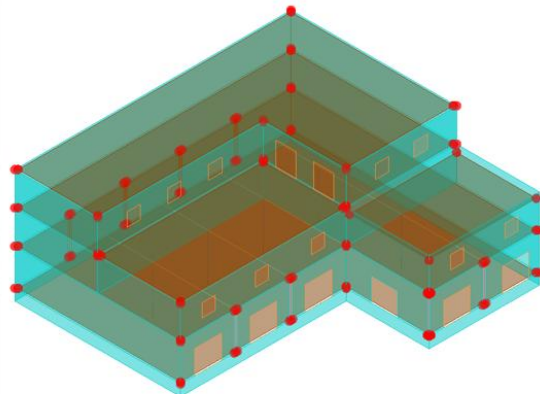
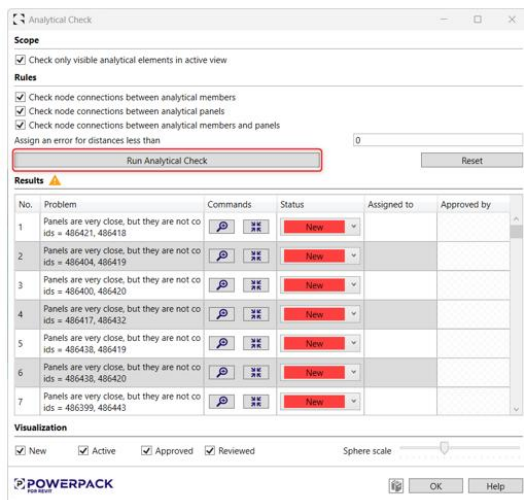
To streamline the verification process of the analytical model and establish a system for handling errors and monitoring their resolution, the Analytical Check interface has been enhanced with new functionalities. One of these additions is the introduction of a new function called “status,” which offers four options:

- **New:** This status is automatically assigned to a new error when detected.
- **Active:** Upon running the analytical check for the second time, errors previously labeled as **New** will transition to **Active** status. This simplifies the identification of any new issues which may have occurred during the resolution of the original problems.

- **Reviewed:** An item can be set as reviewed. An item that has been set to reviewed will by default automatically be assigned to the user (Revit Username) that has set the status as Reviewed, this is to make sure that all reviewed statuses are assigned to an individual to resolve the issue. The user can then change the name to anyone that they want.
- **Approved:** The Approved Status is assigned to issues that are not deemed to be issues. This is where the tool detects an error which would not cause issues with the analytical model. The Approved by column will automatically be set to the user that has changed the status to Approved. It will not be possible to change this to another user.

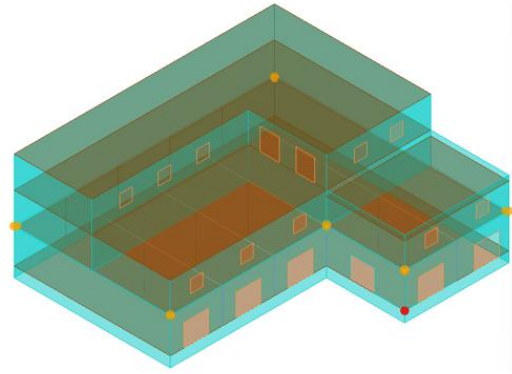
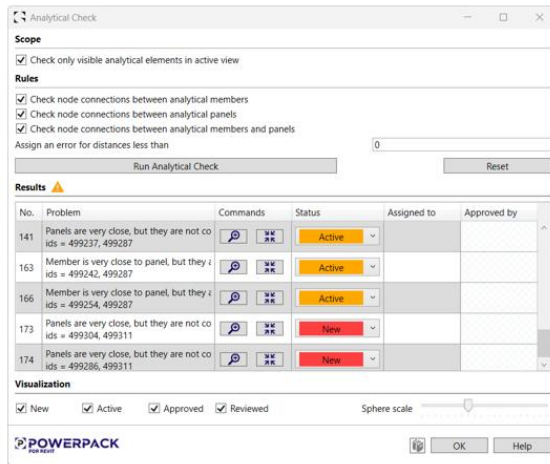
These options facilitate the optimization of the analytical model correction process and enable easier identification of new issues. Additionally, there are two columns that automatically populate with information regarding who approved and reviewed the problem. A filter allows users to select elements based on their status for viewing the results. To explain how to use this status, we will give you an example of an application.

Step 1: Open the Analytical Check and click on the **Run Analytical Check**, a list of connection problems will be generated. In the example, we can see these problems with a red circle.



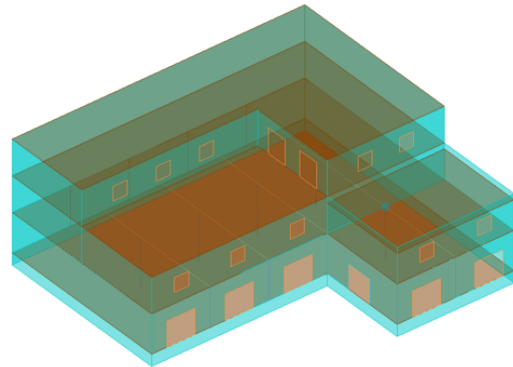
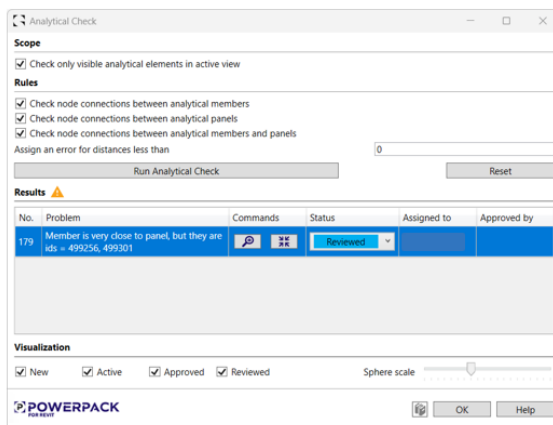
The new interface of Analytical check

Step 2: Close the Analytical Check Window and make the correction in the model. After the corrections, **run the analytical check again** and a new status will be generated. If any connection problem detected in the first run analytical check has not been resolved, the tool will change the status for **Active**. If new connection problems were created in function of the modifications, the tool will attribute the status: **New**.



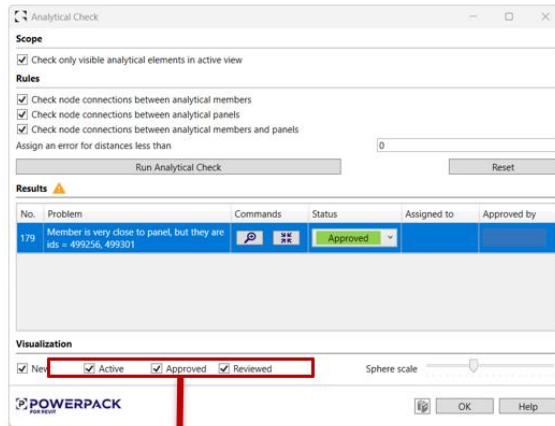
The new interface of Analytical check

Step 3: In the case you made all the corrections, and the tool keeps warning the problem, you can change the status for **Reviewed** and associate this problem with someone to verify.

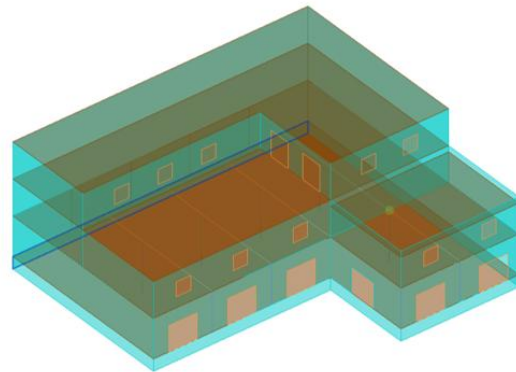


The new interface of Analytical check

Step 4: The status **Approved** represents the issues that are an error which would not be caused by the analytical model. The tool will indicate who approved the status, and it is not possible to change this to another user. A filter is available to help in the visualization of problems.



Select the status you want to see



The new interface of Analytical check

2.4.2 Magnetize to Grid

The tool “Magnetize” has been updated to “Magnetize to Grid” due to the introduction of new functionalities. It still allows you to configure the maximum adjustment distance.



To remind you how to use it, we will give an example:

Step 1: activate a view plane and enable the visibility of grid lines. Then, select the desired element, click “Finish”.



Example of Magnetizing to Grid

Step 2: select the reference grid line, followed by another “Finish” click.



Example of Magnetizing to Grid

Alternatively, you can select the element first, then activate the tool, select the reference plane, and click “Finish only once”. You can select more than one element, but can’t select more than one grid reference.

Note

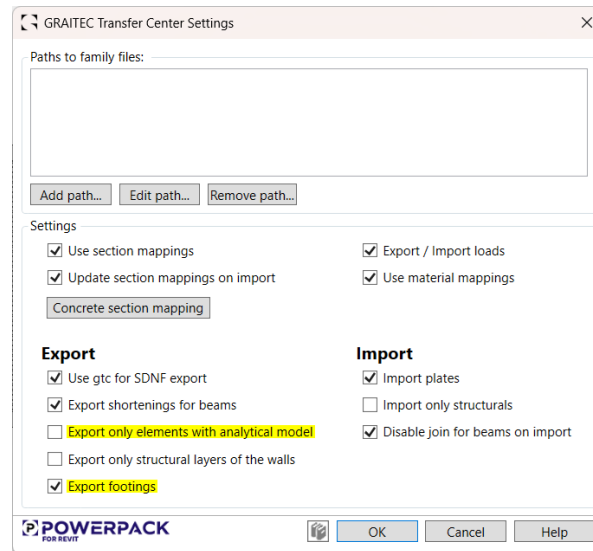
The function “Magnetize to Grid” applies to all types of structural elements, structural walls, beams, and columns.

2.5. Structural Foundation - Improved Export Workflow

Building on the improvements introduced in the last release, this feature complements and completes the initial workflow changes designed to enhance the export process from Revit to AD/Arche. It ensures both physical and analytical elements are seamlessly managed for a more robust and efficient workflow. Key additions include:

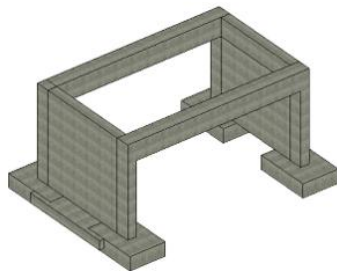
- **Comprehensive Export Capabilities:** Further refinement to allow simultaneous export of analytical columns and walls alongside physical footings, addressing scenarios where footings were previously excluded
- **Extended Workflow Options:** Completes the workflow improvements by enabling footings to be exported along with elements that include analytical models, ensuring consistency and flexibility.
- **Streamlined Model Outputs:** Ensures all relevant elements, both physical and analytical, are included in the export process, eliminating gaps and reducing manual adjustments post-export.

This feature finalizes the workflow initiated in the previous release, delivering a fully functional and efficient export solution that meets user needs and expectations for complex Revit projects.

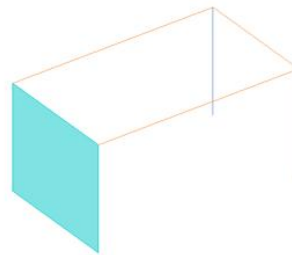


GRAITEC Transfer Center Settings

The following section presents the four possible combinations for exporting elements, emphasizing that only one element in the example, the wall on the opposite side in the figure below, does not have an analytical model.



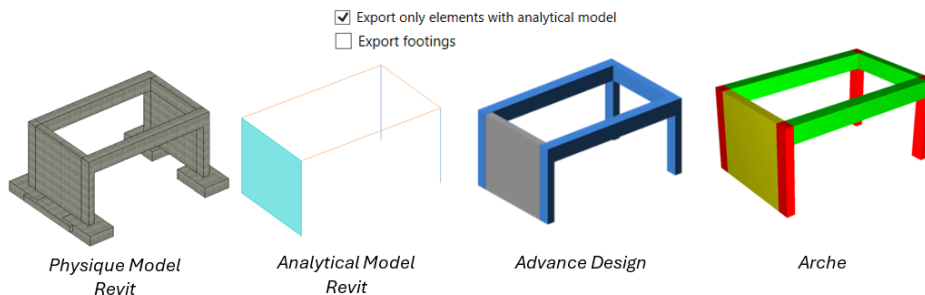
Physique Model



Analytical Model

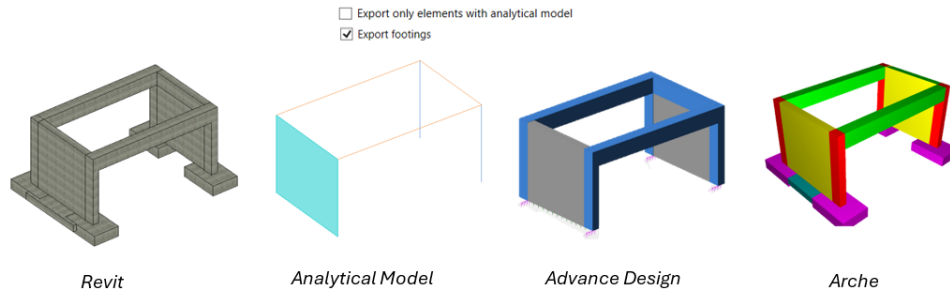
2.5.1 First case

In the first case, we will check the box where only elements with an analytical model are exported, and we will not export the foundations. As a result, beams, columns, and walls will be exported. As the foundation does not have an analytical model, and with the option checked, they will not be exported.



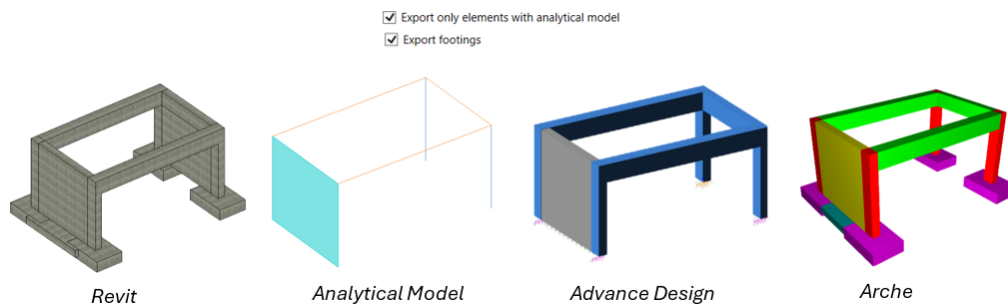
2.5.2 Second case

If we leave the analytical model export box unchecked but check the box for foundations, the software will export all physical elements, including foundations.



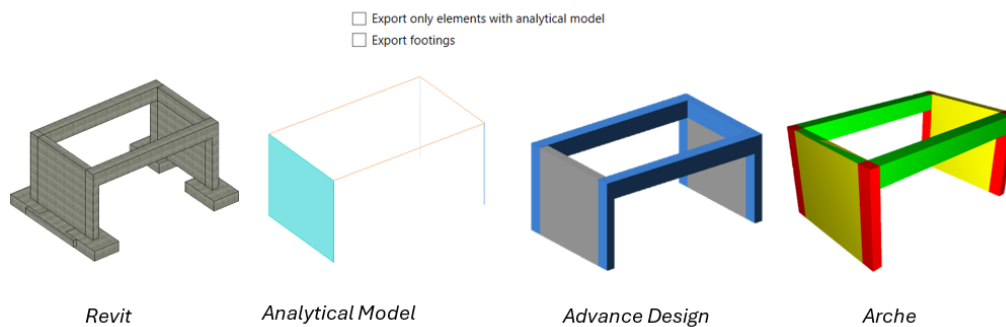
2.5.3 Third case

When both boxes are checked, all structural elements with analytical models, including foundations, will be exported.



2.5.4 Fourth case

When both boxes are unchecked, only the physical elements will be exported.



3. PowerPack Rebar

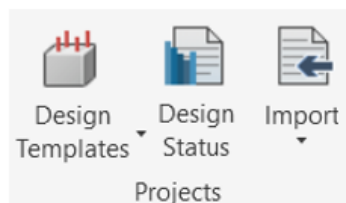
To facilitate the use of the Powerpack, we will combine the Powerpack Detailing and the Powerpack Design. In this way, all features related to Rebar will be accessible in a single interface. This integration aims to enhance efficiency, to reduce redundancy, and to improve usability.



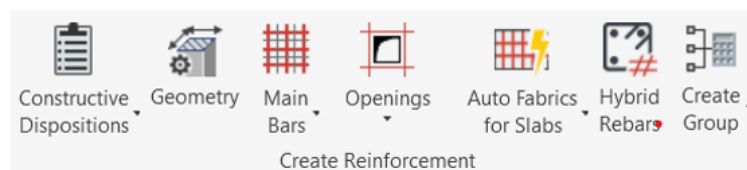
PowerPack Rebar Ribbon 2026

The ribbon is composed of 7 sections:

- **Projects:**



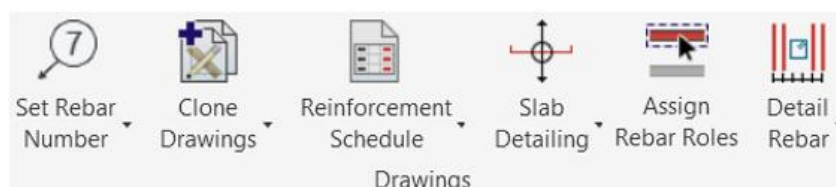
- **Create Reinforcement:**



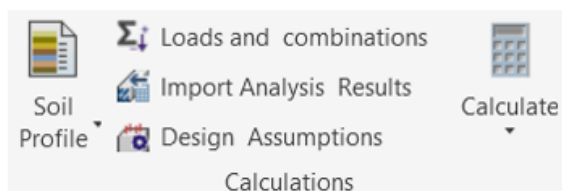
- **Edit Reinforcement:**



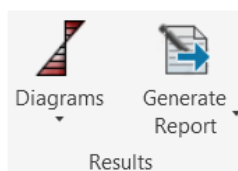
- **Drawings:**



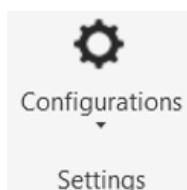
- **Calculations:**



- **Results:**



- **Settings:**



3.1. Refine and Simplify Tool Collection

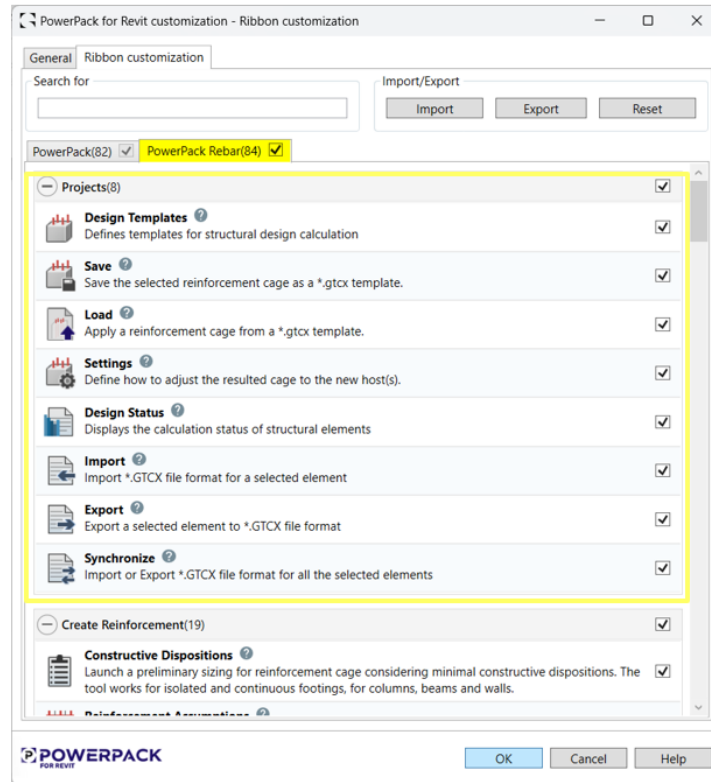
Like what was done in the PowerPack section, we removed certain tools to enhance performance and optimize the ribbon layout.



Removed Features

3.2. Ribbon customization

In Ribbon customization dialog in PowerPack ribbon, **Rebar** now gets their ribbons. With the possibility to enable or disable ribbon panel and each command.

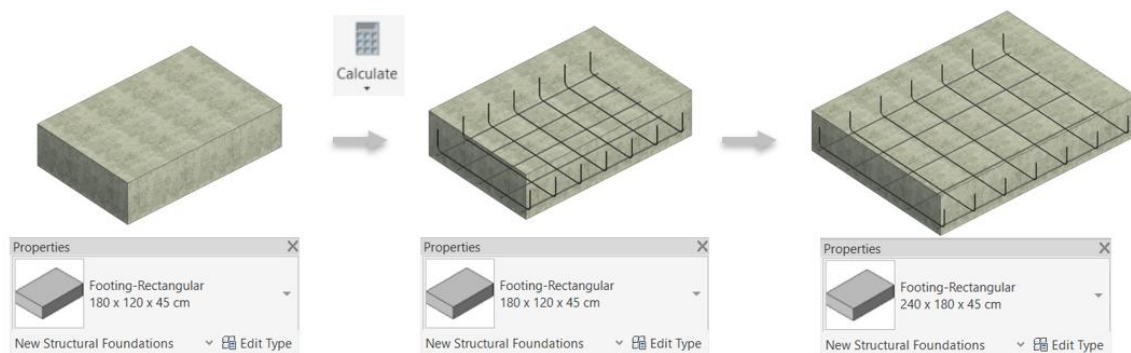


Ribbon customization

3.3. Adaptive Rebar Constraints Integration

3.3.1. Footings

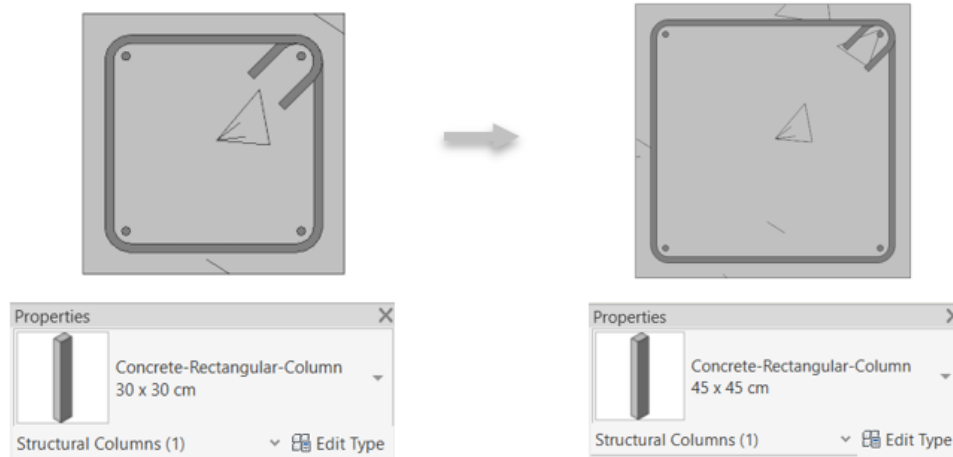
With the new update, the rebar reinforcement in footings now **automatically adjusts** when the element's dimensions are modified. There is no longer any need to delete and recreate the reinforcement manually. Simply update the footing's geometry, and the rebar will adapt accordingly – as shown in the image below.



Example of rebar adaptability in footing

3.3.2. Beams / Columns

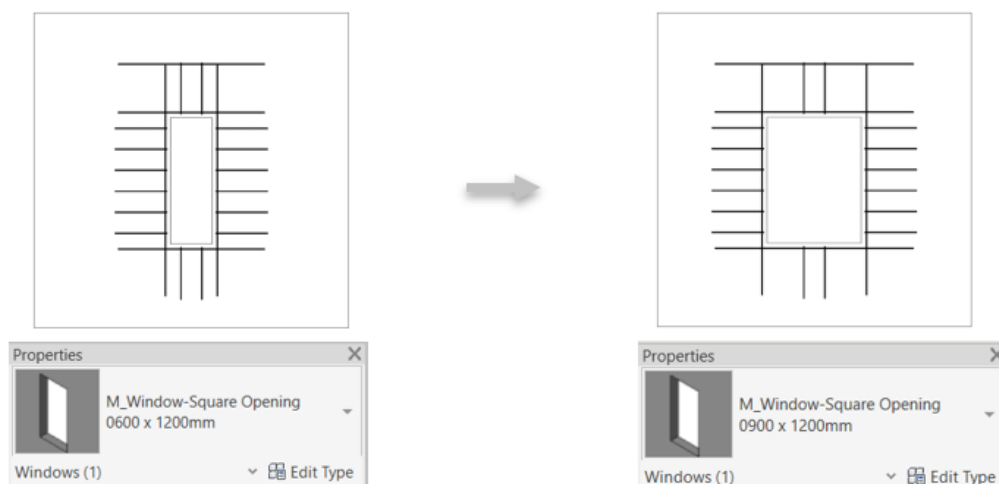
The same adaptability is integrated for beams, columns, and openings. For example, in the case of a beam, if you modify the height or the width, the reinforcement will automatically adjust accordingly.



Example of rebar adaptability in column

3.3.3. Openings

This flexibility also extends to wall openings and floor openings, where modifications are seamlessly reflected in the model.



Example of rebar adaptability in wall opening