



USER MANUAL

BEIM REVIT TOOLS

Level slicing, preview-first clash coordination, and batch export

A concise guide to the current BEIM Revit ribbon tools for Revit 2022 through 2027.

Version 1.05

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Getting Started

Open the BEIM Tools ribbon tab in Revit. The active Revit 2022 through 2027 builds expose the same four user commands.

Ribbon Button	Use It To
Activate	Activate a full license or trial and review license options.
Level Slicer	Create level-by-level 3D views from a prepared source view.
Sync N Clashes	Preview Navisworks clashes, set markers, and create permanent views.
Batch Export	Export selected 3D views as NWC or DWG files.

LICENSING

The production tools require an active full license, trial, or grace period. If a command is blocked, open Activate and complete the license prompt.

CORRECT MODEL

Each tool window is tied to the model from which it was opened. If you switch models, the window is disabled. Return to the original model or close and reopen the tool.

Level Slicer

Level Slicer creates one independent 3D view for each checked level. A real source 3D view supplies the horizontal section-box footprint and appearance; the selected levels and offsets supply the vertical limits.

PREPARE THE SOURCE VIEW

Use a named, non-template isometric 3D view with an active, axis-aligned section box. Avoid perspective views and rotated section boxes. The default {3D} and 3D View names are not offered as sources.

Control	How To Use It
Source 3D View	Choose the real 3D view whose section box and appearance should be copied.
Coord Base	Choose Internal Origin, Project Base Point, or Survey Point, then verify the displayed elevations match the project setup.
Filter / Select All (shown)	Filter the list and check or clear only visible rows. Checked hidden rows remain selected.

Control	How To Use It
Selected rows	Checking one selected row applies the same check state to the other selected rows.
Next Level Above	Choose the upper level. Only levels above the base are listed.
Base Level +/-	Move the bottom of the slice up or down.
Next Level +/-	Move the top of the slice up or down.
Fill Base / Fill Next	Apply one offset to the currently shown rows.

Create Level Views

1. Prepare a named isometric source 3D view with an active section box.
2. Go to BEIM Tools -> Level Slicer.
3. Choose the source 3D view from the Template View list.
4. Choose the Coord Base and verify the displayed elevations.
5. Filter and check the levels to create.
6. Adjust the next level and offsets where needed.
7. Keep every final upper limit above its lower limit.
8. Click Make 3D Views.

RESULT

Views are named <Base Level>-<Source View>. Existing names receive - Copy 1, - Copy 2, and so on. The highest level defaults to a 20-foot upper offset. Source appearance is applied once, so the new views remain editable.

Offsets accept feet, inches, fractions, decimal feet, and signed values, including 1' 2", 6", 3/8", and -0.5.

Sync N Clashes

Sync N Clashes brings selected Navisworks clashes into Revit for review, marker placement, and permanent view creation. Preview and verify the clash location before placing markers or creating views.

PREPARE IN NAVISWORKS

Check the tests and statuses in Clash Manager. For Auto Align, turn on Show Grid and choose the intended Revit grid system in the first Grids & Levels dropdown. Then run Sync R -> Sync Selected. A grid system is optional for Manual fallback, and the Navisworks Selection Tree does not control the export.

LAST EXPORT

The last successful Sync R export remains available between Revit sessions. Each Sync Selected run replaces it, so a failed or empty run may leave nothing to load. Export again after changing the clash scope or after a plugin rebuild or reinstall.

Control	Use
Reload Export	Reload the latest Navisworks export.
Filter / Grouping	Find clashes and organize the tree by Test Name, Assigned To, Level, or None.
Preview Selected	Align the selected clash and focus the active Revit view.
Set Marker(s)	Create or update clash markers after a successful preview.
Clear Marker(s)	Remove markers for the selected clashes after confirmation.
Create Extra Views	Create permanent 3D, plan, and section views after a successful preview.

Select and Align

Use Ctrl-click for multiple items and Shift-click for a visible range. Selecting a group or test includes its descendant clashes.

AUTOMATIC ALIGNMENT

Auto Align compares the exported levels and grids with the active Revit model and loaded Revit links. Model filenames do not need to match, so detached or renamed models can still align. If the result is unavailable or uncertain, use Manual fallback, confirm the export units and Internal or Shared coordinates, then preview a known clash.

Preview Selected

Preview Selected changes the active plan, section, elevation, detail, or 3D model view. It does not create a temporary 3D view.

1. Open BEIM Tools -> Sync N Clashes.
2. Click Reload Export.
3. Select one or more clashes, groups, or tests.
4. Set West, East, South, North, Below, and Above crop distances in feet.
5. Turn Crop current view around selected clash on to adjust the crop, or off to zoom without changing the crop.
6. Click Preview Selected and confirm the alignment status and location.

PREVIEW BEHAVIOR

3D views keep their orientation. Plans use West/East/South/North for the crop and Below/Above for View Range. Sections keep their angle: West/East are left/right, Below/Above are down/up, South is the section line to the clash, and North is past the clash. Split, nonrectangular, or scope-box-controlled crops remain unchanged. Unpin a section marker before Sync N moves it.

Changing the selection, filter, grouping, alignment, or crop distances requires another successful preview before setting markers or creating permanent views.

Markers and Permanent Views

Action	Result
Set Marker(s)	Creates or updates one sphere marker per selected clash using the entered diameter. Existing matching markers are updated; pinned or constrained markers are skipped.
Clear Marker(s)	Clears markers for the selected clashes, group, or test. A new preview is not required.
3D snapshot	Creates an editable 3D view and preserves the previewed 3D orientation when available.
Plan	Creates a cropped plan at a matching or nearest suitable level and applies the selected View Range.
North / East / South / West	Creates the selected cropped section views.
Setup templates	Applies compatible 3D, Plan, and Section templates once, then detaches them so the views remain editable.

CLEAR MARKER WARNING

Revit may also remove tags, dimensions, or other elements that depend on a cleared marker. Review the Yes/No confirmation before continuing.

SAVED SETUP

Extra-view choices, templates, crop distances, crop on/off, marker diameter, and tree grouping save automatically in the current model. Save the Revit model to keep the setup with the project file.

Batch Export

Batch Export creates NWC or DWG files from checked, non-template 3D views. A view named exactly ALL is excluded. Checked views stay selected when hidden by the filter.

Area	Use
View list	Filter, click to toggle, Shift-click a range, or use Select All (shown).
NWC Export	Export each checked 3D view with the selected Navisworks options.
DWG Export	Export each selected 3D view as a DWG using a Revit export setup.
File Export Path	Choose the existing folder where output files will be saved.

NWC SCOPE

Leave Export Scope set to View for a true per-view batch. With Model scope, Revit exports the full model even though the tool creates a file for each checked view name. The Autodesk NWC Exporter must be installed.

Export Views

1. Open BEIM Tools -> Batch Export.
2. Choose NWC Export or DWG Export.
3. Filter and check the 3D views to export.
4. Choose an existing destination folder.
5. Review NWC options or choose a DWG setup.
6. Click Export Selected Views.

OUTPUT

Each output uses the Revit view name. NWC views run one at a time and show Exporting X of Y. Keep the exporter open until the batch finishes. Export settings and the destination are restored next time. Review the destination first because the tool does not show an overwrite confirmation.

Troubleshooting

Issue	Recommended Check
A BEIM tool says it is not activated.	Open Activate and complete the license or trial workflow.
Level views are at unexpected heights.	Check the displayed elevations, Coord Base, offsets, and source section box.
Sync N has no export.	Run Clash Manager -> Sync R -> Sync Selected in Navisworks, then Reload Export.
Auto Align is unavailable or ambiguous.	Check Show Grid and the selected Revit grid system, or verify Manual fallback units and coordinates.
The active view will not crop.	Check for a scope box, split/nonrectangular crop, pinned section marker, or controlling view template.
Markers or Extra Views are disabled.	Run Preview Selected again after the latest selection or setting change.
NWC files contain the full model.	Set Export Scope to View.
NWC export fails.	Confirm the Autodesk NWC Exporter is installed and test one view manually.

Issue	Recommended Check
One view becomes very slow.	Test that view by itself. Link-heavy or complex geometry can take about as long as Revit's native NWC export.

Version Support

The active Revit 2022-2024, 2025-2026, and 2027 builds expose the same four ribbon commands and user workflows described in this manual.