

EnneadTab For Revit

Shh... Secret Documentation
2025-04-27

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3D Workset Views

Tooltip: Create 3D workset checking view in your working folder.
Each workset will get a 3D view that only have this workset turned on.

If there are no 'Views_\$Group' and 'Views_\$Series' in the view parameter, such as the case in using other firm file setup, the tool will not introduce 'Views_\$Group' and 'Views_\$Series' to them, the new 3D workset views will be just using revit default '???' group.

[Popular]



Batch Format Family Name

Tooltip: Batch rename family names to follow Healthcare standard naming convention.

Format:

CATEGORY_MainDescription_FIRM[_AdditionalInfo][_HOSTING]

Examples:

LITE_PendantLamp_EA_Vitra_CH

DOOR_Telescopic_EC_TwoPanel_WH

FURN_Chair_EA_Tack

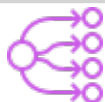
Components:

- CATEGORY: Category abbreviation or CSI Division No. (e.g., LITE, DOOR, FURN)
- MainDescription: CamelCase, no underscores or spaces (e.g., PendantLamp, Telescopic)
- FIRM: EA (EnneadArchitects) or EC (EwingCole)
- AdditionalInfo: Optional - Shape/Brand/Note
- HOSTING: Optional - WH(Wall)/CH(Ceiling)/FH(Floor)/FC(Face)



Check Linked-View Relationship

Tooltip: View dependency analyzer that identifies all linked-view relationships throughout your project. This diagnostic tool generates a comprehensive report showing which views reference others, helping identify potential circular dependencies or visualization issues. Perfect for troubleshooting views that unexpectedly display or hide content, or when preparing to delete views that might be referenced elsewhere.



Check Phase Mapping

Tooltip: Get the phase mapping of mutiple documents.

[Popular]



Collect Textures

Tooltip: Choose a new destination for texture images. Then Collect Textures copies all material texture images to this new location, and updates texture image path.



[Popular]

ColorScheme To Excel

Tooltip: Use me to export selected Color Scheme To Excel. You have the option to exclude unused color.



[Popular]

Create Sheets By Excel

Tooltip: Create new sheets based on data from Excel.

If you need help on what kind of Excel to prepare, you can open a sample excel and begin from there.



[Popular]

Create Worksets

Tooltip: Create Worksets following the standard Ennead Workset Structure.

You can the options to create any or all from below:



Duplicate Area Scheme

Tooltip: Duplicates a Revit area scheme to a new area scheme with all boundaries and areas.

This tool allows you to:

1. Select an existing area scheme to duplicate
2. Provide a new unique name for the duplicated scheme
3. Choose which views to include in the duplication process
4. Automatically transfer all boundaries and areas to the new scheme



[Popular]

Export Filled Region Types

Tooltip: Export the filled region color setting to excel so you can use it elsewhere.



Family RePath

Tooltip: Find family file path. And remap the path to a folder you picked. In this folder, families will be organised based on their category.

This will also load the repathed families back to central model.

You have the option to sync and close after the long-boring reloading.

You also have the option to dig inside the nesting family and save them.

[Popular]



Family Tree

Tooltip: Family hierarchy visualization tool that reveals the complete nesting structure of complex Revit families. This utility generates a clear, hierarchical display of all nested components within the current family, showing parent-child relationships and dependency chains. Perfect for understanding complex families, troubleshooting parameter inheritance, or documenting family architecture.



Inspect Excel Formula

Tooltip: Excel formula validation tool that reveals hidden calculation relationships. This quality control utility inspects spreadsheets for embedded formulas, highlighting cells with dependencies to help verify calculation accuracy. Perfect for validating critical data before importing into Revit or when reviewing calculations from external sources to prevent errors in your documentation.

[Popular]



Inspect Local Graphic Override

Tooltip: For views on selected sheets, inspect if there are local graphic override or local hidden objects that is not controlled by template.

[Popular]



Keynote Assistant

Tooltip: Comprehensive keynote management system that extends Revit's standard functionality. This powerful utility provides an intuitive interface for creating, editing, and organizing keynotes with additional features for categorization, search, batch operations, and translation capabilities. Perfect for maintaining consistent documentation standards and streamlining the keynoting workflow across complex projects.

[Popular]



Legend&Schedule; Where?

Tooltip: Which Legend and Schedule were used? Where are they?
If you have been wondering about those question, this tool can help you with it.

It list all the current locations for the schedules and legend, with a clickable link!

[Popular]



Lines-In-View Locator

Tooltip: Line usage analysis tool that helps identify views with excessive detail and model lines. This diagnostic utility generates a ranked report of views containing the most line elements, helping pinpoint potential performance bottlenecks or documentation management issues. Perfect for troubleshooting slow performance or when establishing documentation standards for line usage.



Links2Worksets

Tooltip: Convert each revit link into its own workset.



List Families

Tooltip: Lists selected families in organized views.

This script allows listing of both 2D detail items and 3D families in dedicated views. Detail items are placed in a drafting view while 3D families can be placed in either a 3D view or floor plan view. Families are organized by category with labels and optional tags.

Key Features:

- Supports both 2D detail items and 3D families
- Organizes families by category with clear labeling
- Creates dedicated views for family display
- Optional tagging support
- Handles hosted families with appropriate host elements
- Creates category-specific filtered views

Note:

3D families will be visible in all project views. The script creates an internal level far from the main project levels to minimize interference.



Merge Object Style

Tooltip: Consider using Ideate instead



Monitor Link Status

Tooltip: Monitor and compare grid and level elements between current document and linked documents. This tool helps track differences in grids and levels between the host document and its linked models. It identifies elements that exist in one document but not in others, and checks monitoring status.



Open Sample Excel

Tooltip: Get a sample excel to fill out data in similar format. Using those format will make it easy to generate dummy sheets in Revit. Please note that Chinese translation will require special care when saving excel format.



Project Initiating

Tooltip: A floating window that give you quick access to all kinds of function needed when a new project is starting.

- +Default Workset Creation
- +New Sheet Created From Excel
- +Quick project info filling



Property Line From Excel

Tooltip: Generate detail line from the Excel survey pt data. Best used for property line geneation.



QAQC Reporter

Tooltip: AI-powered quality control assistant that transforms complex model data into actionable insights. This innovative tool generates comprehensive QAQC reports for your current document and features a natural language interface powered by OpenAI, allowing you to interrogate the results through simple conversation. Perfect for project milestones, coordination reviews, or when preparing deliverables that require rigorous quality verification.

[Popular]



Relationship Diagram

Tooltip: Interactive canvas to draw relationship diagram.



Rename Nesting Family

Tooltip: Scans through project families and their nested components to remove '**ConflictingName' string.

PROCESS:

- Iterates through all families in current project
- Opens each family document
- Checks nested families for '**ConflictingName' string
- Renames affected nested families by removing the conflicting string
- Loads modified families back to project
- Logs all changes made during the process

You can also request to locate and rename based on other rules.

[Popular]



Repath Dwg Drive Letter

Tooltip: Pick the old and new drive letters to repath all linked DWGs.



Smart Egress Path

Tooltip: Intelligent egress path creation tool that automates code-compliant exit routing. This utility helps you create and maintain accurate egress paths with smart dynamic updating capabilities, ensuring proper path widths and distances to exits are maintained as the design evolves. Perfect for life safety documentation and code compliance verification.

[Popular]



Smart Match Grid Extend

Tooltip: Get all floor plans and area plans for each view, find all grids. Then for each end of the grid decide if it should show bubble or not based on the status of same bubble from same level in REF dict.

[Popular]



Transfer Parameter Data

Tooltip: Transfer some data from one parameter to another.

When you inherited from older file some parameter is carried over and now you have duplicated parameter container. Use this to cleanup the parameter panel

[Popular]



Update DOB Page Number

Tooltip: For DOB submission in NYC there requires a page number on the titleblock.



View Reference Tree

Tooltip: Generate sheet and view relationship data for visualization. Data is saved to DUMP folder for later use with visualization tools.



Wall Type Diagram

Tooltip: Generate walltype legend view as well as view filter. The color is picked based on related filled region type, if not available then pick new color for you.

[Popular]



Block2Family

Tooltip: Converts Rhino blocks to Revit families.

This script processes block data exported from Rhino to create or update corresponding families in Revit.

Key features:

- Creates new families from Rhino block geometry
- Updates existing family instances
- Handles transformations (move/rotate) by removing old instances and creating new ones
- Preserves block parameters as family parameters
- Supports both UV projection (flat-modeled) and standing geometry
- Maintains Rhino block IDs for tracking

Input: .internal data files containing block data from Rhino

Output: Revit family instances with matching geometry and parameters

[Popular]



Brep2Mass

Tooltip: Based on the brep data exported from EnneadTab for Rhino, create adaptive mass shape as native Revit object.



Content Transfer

Tooltip: A floating window that enables the transfer of view templates, object styles (SubCategory), and materials. The primary distinction between this tool and the default 'Transfer Project Standard' is its selective transfer capabilities.

[Popular]



DWG Export Update Layer

Tooltip: Randomize the layer color, and rename the layer to to format below:
Category_SubCategory

This tool does not change other existing setting for this export setting.
It makes life in Rhino easier after exporting contents over.

[Popular]



Ennead Exporter

Tooltip: A great helper for your print on deadline. Features include:

- pdf, dwg, jpg export together
- Package export files to subfolders in destination folder by assigned prefix and file type
- Prefix for auto numbering
- Email result as a link to folder.
- Time estimation, with increasing accuracy the more you export
- Identify color setting per parameter on sheet. So you can mix color and BW export together.
- Option to sync and close files after exporting done.
- Export sheets by revision mark instead of printSet, and allow selective export without disrupting shared printSet.
- Export views on sheet seperatedly for dwg.
- Export from links or open docs.
- Merge pdf after export.
- JOKE while exporting.



Export SubCategory Material Table

Tooltip: Export the OST and material table so it can be used in Rhino import when using 'map Revit SubC'.

With this tool, the layer in Rhino can be assigned with similar Revit material based on layer names.

If you have not done already, you can update dwg export layer mapping with EnneadTab first so each SubCategory in object style table become something rhino layer can match.



Import Rhino Camera

Tooltip: Work with Camera exported in Rhino side to recreate the same perspective camera.

It can be useful for Enscape view recreation in Revit.



Import Rhino Material

Tooltip: Import material definitions from Rhino into Revit. Creates new materials or updates existing ones based on Rhino material properties.



Isolated Export By System Family Type

Tooltip: Pick category and type for the dwg export. It will isolate elements by types in the view and give individual .dwg file.

The child elements such as shared family will be isolated as well.

Use EnneadTab for Rhino to get things under type parent layers.

Currently handle Wall/Floor/Roof/Column/Stair

This tool primarily deal with the system family category that normally will be difficult to seperate in dwg export.

[Popular]



Map Rhino Block to Revit Family

Tooltip: Transform the Rhino block orientation to Adaptive Revit Family. It will be searching for same name as block name.

The biggest benift is You will no longer be restricted by level based vertical up family. It can be freeform as in Rhino.



Move2Origin

Tooltip: Move this family to the internal origin under current orientation.

There are 3 modes for the operation:

- 1: Family is placed on 3d view, but location is wrong.>>>You select it and move it.
- 2: Family is placed on 3d view somewhere but you don't know where.>>>You select it from listbox and move it.
- 3: The family is just loaded in, it is new, and has not been placed anywhere.>>> You select it from list and move it.

[Popular]



Review On Miro

Tooltip: Intelligent Miro integration for continuous design review workflows. This powerful utility exports sheets directly to Miro with automatic version tracking - new sheets get blue crosses, updated sheets get orange stars. Allows for persistent markup across document revisions, eliminating the need to recreate comments on each iteration. Perfect for maintaining feedback history when traditional PDF markup would be lost with new backgrounds.



Revit2Rhino

Tooltip:

Script for exporting Revit Family Instances to Rhino.

It converts each FamilyInstance's geometry into a **single Rhino block** containing all its Breps (or fallback Meshes). The block definition is annotated with 'RevitElementID'.

This only process current view.

TO-DO: accept layer making



Rhino Drafter

Tooltip: A drafter that allow you to take advantage of Rhino fast editing power. You can operate however you want for crvs and surfaces in Rhino, and transfer those content to Revit detail lines and filled regions with matching linestyle and filled region type.

Some Rhino command to consider:

- +Trim
- +Split
- +Fillet
- +CurveBoolean
- +EditControlPoints
- +Surface trim/split.

It also support nurbs crv or srf with nurbs edge, and it support AreaBoundaryLine and RoomSeperationLine drafting.

[Popular]



Rhino2Revit

Tooltip: Convert .3dm and .dwg files into native Revit family elements.

Key Features:

- Assign subcategories per file
- Add new subcategories on the fly
- Use source filename as subcategory
- Support major curve conversion (except NURBS curves with control points on different CPlanes)

Best used with EnneadTab for Rhino's Rhino2Revit exporter window.

Format Support:

.3dm Files:

- Stable conversion to native Revit elements
- Individual control of Boolean, Subcategory, Visibility, Dimensions
- Requires clean source models

.dwg Files:

- More tolerant of model imperfections
- Handles lines, arcs, circles and planar NURBS curves
- Elements from same source file are grouped
- Creates Import subcategories (auto-cleaned)

[Popular]



RoomOrArea2Diagram

Tooltip: Export Revit Rooms/Areas to Rhino as color-coded diagrams.

This tool creates a simplified diagram representation of Rooms or Areas in Rhino:

- Exports boundaries with filleted corners
- Maintains color coding from Revit color schemes
- Adds text labels for space identifiers
- Creates solid hatches for each space



[Popular]

Schedule2Excel

Tooltip: Export and open schedule in excel.



Srf2Adp

Tooltip: Convert surface in Rhino into Revit Adaptive. The sequence of the adaptive corner needs to be defined in previous step at Rhino.



Change Family Unit

Tooltip: Convert between a typical imperial family and metric family by setting up unit.



CurtainWall Location Manager

Tooltip: Manager your curtain wall locations by converting walls in current plan to abstract line.

You can then modify/confirm the location of CW wall in that diagram and update the actual CW wall with this tool.

Left Click: Process current view

Right Click: Process selected views

You also have the option to include EOS lines in the diagrams, as long as the floor type name contain "struc".

You can use working-view-manager to export those Abstract wall diagram views to jpgs and can review those quicker.



DWG Manager

Tooltip: A floating window that help you manage DWG in the files.

You can find, select, zoom any dwgs with detailed info on creator, view association, hidden status, workset, file path and file size.

For linked dwgs, you might also open file directly, open folder directly, and repath links to a selected folder.

[Popular]



Family Parameter Batch Creation

Tooltip: Help you get started with many families by adding many useful parameter quickly.

[Popular]



Fire Rating Graphic

Tooltip: Fire Rating Graphic Manager

A comprehensive fire rating management system that streamlines code compliance documentation.

This powerful utility helps you:

- Assign and track fire ratings across wall types
- Generate intelligent graphics that update automatically across multiple views
- Maintain consistent fire separation documentation
- Ensure building code requirements are clearly communicated

Key Features:

- Intuitive UI for managing wall type fire ratings
- Batch updates across selected views
- Support for linked models
- Smart graphic family (Smart_Fire_Rating) with customizable appearance
- Real-time wall instance counting and preview

Perfect for maintaining consistent fire separation documentation and ensuring building code requirements are clearly communicated in your drawings.

[Popular]



Identify Wrong Type Of KeynoteTAG

Tooltip: You should avoid using user keynotes, but if someone already did in the project, you can find them here.

Also, element keynote and material keynote should be used by it respective types.

If there is mismatch, this tool will attempt to find them. The rule is as such, if there is 'material' mentioned in the type name or family name, and the tag is pointing to a element key data, it will warn you.

The same goes for the element keynote types.

User keynote, since no one should really use it, will be highlighted as blue.

[Popular]



Isolate Warnings

Tooltip: In the standalone window, you can zoom in with section box to a region that has a warning.

As you are fixing it, you will see the warning count going down. When you sync back after all the fix, the EA coins will be rewarded..

[Popular]



KeynoteTAG Reset Color

Tooltip: Reset all keynote tag local override color to default. It might get its color from the other checking type button.



[Popular]

Load Family From Link

Tooltip: Load family from linked revit file without open those links.



[Popular]

Load Multiple Families To Multiple Docs

Tooltip: Pick many families, and load them to many projects. You can:

- 1 family >> x projects
- x families >> 1 projects
- x families >> x projects
- 1 family >> 1 project

Have bonus option to sync and close after done. And have option to pre-pick shared family loading behaviour. Handy for loading big family at end of day.



[Popular]

Manage Working Views

Tooltip: Powerful working view management system that helps maintain a clean project environment. This interactive interface allows you to quickly identify, review, and organize unsheeted views with intelligent filtering by creator, view type, and more. Features include thumbnail previews for rapid visual assessment, batch view name prefixing to identify creators, and direct view deletion capabilities - all without leaving the interface. Perfect for project cleanup before submissions or when transitioning between project phases.



[Popular]

Merge Family

Tooltip: Merge a few family types to a target family type:

For instance parameters, the tool tries to record as much information as it can, so after the merging, similar data can be applied back to maintain the graphical consistency.

There is a built-in check that will search for differences in type parameter data. Should differences be found, you will be prompted to decide to continue with merge or cancel.

If you find no ideal target type, you may also choose to create a new type under good family with the bad type data and type name.

This tool will work for most 2D and 3D families, as well as Tags.



Proj. Parameter Batch Adding

Tooltip: Batch adding shared parameters to multiple project files. This can reduce mistake during manual operation of repeating task.

If this shared parameter has been added before, it will not add again. Note that for Revit, the spelling is not important, the GUID is important.



Remove Not Placed Area and Rooms

Tooltip: This tool allows you to manage room and area accuracy by identifying and removing elements that are not properly placed in the project.

Features:

- Remove unplaced rooms and areas
- Identify unbounded/redundant elements for review
- Phase-specific room inspection
- Find elements with negative areas or missing department assignments

[Popular]



Shake All Tags

Tooltip: Sometimes the tag will not update after updating the component info. This can be resolved by shifting the tags up and down to force them to update.

This tool moved all tags on the selected sheets back-and-forth by a tiny amount to force Revit to regenerate the tag and update the display. This makes sure the tags are all reading something.



Track Detail Group

Tooltip: Detail group detective that helps you track down where groups are used throughout your project. This bidirectional search tool allows you to find all instances of a specific detail group across views, or identify all detail groups used within selected views. Perfect for understanding dependencies before making changes to detail groups or when cleaning up unused content.

[Popular]



WorkSet Manager

Tooltip: Advanced workset organization tool that brings order to collaborative projects. This floating interface provides multiple ways to reassign elements to appropriate worksets - by category, by host element, or by type. Even handles elements inside design options (as long as they're not in groups). Perfect for cleaning up workset assignments after imports or when standardizing project collaboration structure.

[Popular]



01_Family Path BIM360

Tooltip: Order by GD



Check Design Option(Depreciated)

Tooltip: See what is inside your design option by colorize them.



Rename Level

Tooltip: Remove '_' in level names, and replace 'C' to 'E'



Show Category Temporarily

Tooltip: for selected sheets, and selected categories, turn on the categories temporarily.



rename Grids

Tooltip: Replace _ with - in grid names



rename scopebox

Tooltip: Rename scopebox by removing all '_' in scopebox name



test_get_rvt_link_data_in_template

Tooltip: Sen Zhang has not writed documentation for this tool, but he should!



App Store

Tooltip: Sen Zhang has not wried documentation for this tool, but he should!



Assistant

Tooltip: Your all-in-one resource center for EnneadTab and Revit mastery!

This comprehensive assistant provides quick access to:

- Learning resources and tutorials for Revit, Rhino, and CAD
- YouTube training playlists and Friday session recordings
- Family formula cheat sheets and reference guides
- Bug reporting and feedback submission tools
- Important Ennead and Autodesk websites
- Cache folder management to optimize C: drive space
- BIM360 GUID decoder to make sense of cryptic folder names
- Timesheet helper to track your daily activities
- Installation guides for other EnneadTab products

Perfect for both beginners and power users who want to maximize their productivity!



Beer Tab

Tooltip: Designer's break companion that helps you maintain proper work-life balance. This essential utility provides quick access to local refreshment options when you need a mental reset. Perfect for those moments when architectural inspiration requires a change of scenery and a cold beverage.



ChatGPT

Tooltip: Integrated AI assistant that brings ChatGPT directly into your Revit environment. This powerful tool provides instant answers to Revit-related questions, code compliance inquiries, design challenges, or general information needs without leaving your modeling interface. Perfect for quickly solving problems or exploring design alternatives without disrupting your workflow.



Display Revit Warning History

Tooltip: Warning tracking system that reveals error trends across your project history. This powerful diagnostic tool displays comprehensive warning logs that have been automatically recorded by EnneadTab, allowing you to analyze warning patterns over time. Left-click to analyze the current document, or Shift-click to compare multiple projects.



Documentation Hint

Tooltip: Quickly print all the [Did you know] documentations.



EnneadTab Setting

Tooltip: Personalization control center for your EnneadTab experience. This comprehensive settings manager allows you to customize tab visibility, color schemes, notification preferences, and duck behavior. Includes options to toggle between Lite and Pro versions, manage extension visibility, and fine-tune your workflow preferences to match your project needs.



MiniBank

Tooltip: Virtual achievement system that tracks your productivity and EnneadTab usage. This floating window displays your current MiniBank balance and leaderboard ranking, celebrating your contributions to the firm's digital ecosystem. Earn coins through regular tool usage, submitting bug reports, and helping colleagues. Perfect for encouraging healthy competition while building a culture of technology adoption.



Open Ecosystem Folder

Tooltip: Jump to the ecosystem folder where you can inspect all the magic.



Reload EnneadTab

Tooltip: Reload entire UI so can get newer buttons.....



Soft Reload

Tooltip: Just download the new repo and unzip. This will not reload the Reevit for UI change.



Tell Me Version

Tooltip: Version information utility that displays the current build details for all EnneadTab components. This diagnostic tool provides complete version numbers, build dates, and update status for your installation - essential for troubleshooting, submitting bug reports, or verifying you have the latest features. Perfect for confirming compatibility when working with team members or when communicating with EnneadTab support.



Unit Test

Tooltip: Diagnostic validation tool that verifies core EnneadTab modules are functioning correctly. This utility runs a comprehensive series of tests on critical system components to ensure proper operation across the entire extension ecosystem. Perfect for troubleshooting after updates, when experiencing unexpected behavior, or when developing new functionality that depends on core services.



AI Translate

Tooltip: Intelligent translation assistant for your Revit project. Seamlessly translate sheet names, view names, and project text elements between languages. The AI-powered engine handles context-appropriate translations with approval workflow to ensure accuracy before implementation.

[Popular]



Align H. Curtain Grid To Detail Lines/Levels(Elevation)

Tooltip: Horizontal curtain grid alignment wizard that saves hours of manual adjustments. This tool automatically snaps horizontal curtain grids to the nearest intersecting detail lines or level datums in elevation views. Perfect for aligning mullions with floor levels or coordinating with other building elements for a cleaner, more integrated facade design.



Align V. Curtain Grid To Detail Lines/Grids(Plan)

Tooltip: Precision curtain grid alignment tool that automatically snaps vertical curtain grids to intersecting detail lines and datum grids. Perfect for quickly coordinating facade layouts with architectural planning grids without tedious manual adjustments. Run this command in a plan view for best results.



Apply Panel Radius

Tooltip: Advanced curtain panel radius management tool that automatically applies host wall curvature to panel elements. Intelligently identifies curved curtain walls and transfers radius values to panel parameters, ensuring consistent curvature throughout the facade system. Customizable parameter mapping allows for flexible implementation across different panel families.

[Popular]



Batch Cut Elements

Tooltip: Powerful batch cutting utility for curtain wall systems.

This tool enables efficient creation of void cuts across multiple curtain panels.

Features:

- Batch process curtain walls or individual panels
- Support for multiple selection methods
- Intelligent void detection and validation
- Transaction-safe operations with error handling

Usage:

1. Select curtain walls or panels
2. Choose void geometry
3. Apply cuts across all selected elements

[Popular]



Color-Code Design Option

Tooltip: Visual design option manager that transforms how you work with alternatives. Automatically color-codes elements belonging to different design options across selected views, making it instantly clear which elements belong to which option. Perfect for presentations, design reviews, and maintaining clarity when working with complex option sets.

[Popular]



Detail Line By Excel

Tooltip: Precision detail line generator that imports survey point data directly from Excel spreadsheets. Automatically converts coordinate data into properly positioned Revit detail lines, creating grouped elements for easy manipulation. Ideal for property line creation, site boundaries, and other survey-based linework that requires exact positioning.



Dim Text Helper

Tooltip: Floating dimension annotation assistant that enhances documentation productivity. Quickly add industry-standard dimension text (FOG, EOS, FTF, etc.) to selected dimensions with precise control over text positioning. Create custom annotations on-the-fly and save frequently used dimension texts for future use. Streamlines the tedious task of dimension annotation across your project.

[Popular]



HealthCare Helper

Tooltip: Your ultimate healthcare project companion! Provides a comprehensive suite of tools for managing healthcare projects in Revit - from design guidelines and project setup to DGSF chart management and color palette customization. Access all healthcare-related functionality from this centralized command center.

[Popular]



Join All Column/Floor

Tooltip: Automates the tedious task of joining columns and floors throughout your model. This time-saving utility identifies all column and floor elements and applies join geometry operations between them, providing a detailed completion report of successful and failed joins.



Make Template From Current View

Tooltip: The big different from the Revit version is that you can use this to fix the wrong view type template that was resulted from duplicating wrong view teyp and cause revit default type group to display wrongly.



Open Doc(s) Siliently

Tooltip: Batch opener for Revit files with enhanced reliability. Opens multiple documents while automatically handling warnings that would normally interrupt the process. Includes support for audit mode and detached/no-workset opening options. A comprehensive summary report is provided upon completion.



Orient Scopebox

Tooltip: Intelligent scopebox alignment tool that precisely orients view boundaries to match model geometry. Using reference model lines as guides, this utility automatically calculates and applies the optimal rotation angle to selected scopeboxes. The smart algorithm typically finds the correct orientation within three iterations, even with complex angles or unusual initial positions.



Reset Join/Cut

Tooltip: Troubleshooting utility for element join and cut relationships. Analyzes selected elements and removes all cutting and joining relationships, providing a detailed report of each operation. Perfect for resolving geometry conflicts or starting fresh with clean element connections.



See You Again

Tooltip: Smart session scheduler that prepares your Revit environment for your next work session.

This time-saving utility allows you to:

- Schedule your current Revit files to reopen automatically
- Choose when they reopen: in minutes, tomorrow morning, or next Monday
- Skip the lengthy file loading process when you return to work
- Maintain your exact workspace configuration between sessions

Perfect for teams working with large projects that take significant time to open each day.



Set FilledRegion Border Style

Tooltip: Specialized filled region styling tool that allows precise control over border line appearance. Quickly apply consistent line styles to multiple filled regions simultaneously, enhancing drawing clarity and graphical standards. Works with individual selections even when regions are nested within groups by using tab-selection technique.



Super Renamer

Tooltip: A powerful floating window that provides efficient access to a comprehensive suite of renaming functions.

- Add or remove prefixes for selected views with a single click
- Convert Views and Sheets to uppercase for consistent documentation
- Format view names based on detail number and sheet number with customizable patterns
- Rename families directly without navigating through the project browser
- Toggle between different naming conventions with ease

This tool streamlines the tedious process of maintaining naming consistency throughout your project.

[Popular]



Sync All Open Proj and Close

Tooltip: End-of-day project synchronization tool that tidies up your work environment with one click. This utility automatically synchronizes all open project documents with their central files, then cleanly closes everything. Perfect for when you're heading home and want to make sure all your work is safely submitted to the central model.

[Popular]



Sync All Open Proj

Tooltip: Project synchronization tool that keeps all your work up-to-date with a single click. This utility automatically synchronizes every open Revit project with its central file while keeping them open for continued work. Perfect for regular syncing throughout the day to prevent data loss and ensure changes are visible to your team.



Tag Aligner

Tooltip: Precision tag alignment assistant that brings order to your documentation. This floating interface allows you to quickly align multiple tags horizontally or vertically based on a reference tag. Perfect for creating clean, professional drawings with consistently aligned annotations that improve readability and presentation quality.



Toggle Contents

Tooltip: Master visibility controller for Revit elements. Efficiently manage pin/unpin status, visibility settings, and annotation bubble heads across multiple categories and views. Perfect for cleaning up views, preparing documentation, and enforcing standards across your project.

[Popular]



Open App Store

Tooltip: Sen Zhang has not writed documentation for this tool, but he should!



Ownership Inspect

Tooltip: Element ownership detective that reveals who's controlling what in your model! This comprehensive scanner examines all categories of elements and reports which team members have ownership of various objects. Perfect for troubleshooting editing conflicts, identifying workset patterns, and understanding collaboration dynamics across your project.



Pick Absolute Similar

Tooltip: Advanced element matching wizard that finds truly identical elements throughout your model. Unlike Revit's built-in selection tools, this utility performs deep parameter comparison to identify elements that are genuinely identical in all important aspects. Perfect for finding all instances that share specific parameter values when you need precise selection control.



Place Views On Sheets

Tooltip: Monitor for new views in the project and allow quick renaming through a non-blocking interface.



Prefilter Selection

Tooltip: Just like the prefilter selection in Rhino, this allow you to narrow down selection beofre heavy window selection and post filter.

Very helpful when the drawing is very crowded.

You can enable multiple category at same time.

Let Sen.Z know if you would like to add more to the category list.

[Popular]



Search Command

Tooltip: Intelligent command search engine for Revit. This powerful search utility helps you locate tools across both EnneadTab and native Revit interfaces with ranked results based on name and documentation matches. Features include visual previews of tool locations, direct activation capability, and detailed documentation display with links to help resources. Perfect for quickly accessing functions without navigating through ribbon panels or when you can't remember where tools are located.

[Popular]



Toggle Warnings

Tooltip: Show warnings in the active view.



What Happened?

Tooltip: A floating window that give you information of the creator, editor and owner of selected elements and active view.

[Popular]



Family Browser

Tooltip: A floating window that can help you search the family from AppliedComputing Library.

Disclaimer: EnneadTab only help you find the family, but is not participating in the creation and maintainance of the family library.



MetaData Exporter

Tooltip: Process all the family file to generate a metadata file for usage later.



How to Use Ennead Library

Tooltip: Click the icon to load the family, some older revit version family will be upgraded during the process. Then you can start to use it.



Discover Line Pattern

Tooltip: Find the line patterns that are similar in definition but slightly different.



Export GIF From Archive Model

Tooltip: Attempt to export the same axon view from archive files



Find Louvers

Tooltip: Filter selection for panels with 'is_double pane spandrel' and 'is_louver lower' checked.



Floor Drafter

Tooltip: TO-DO: this has potential, should revisit when there is a demand



GUI Match Pink

Tooltip: Attempt to match sketch element. DO NOT USE, see newer api for eketch class.



Hide Section in Elevation by Orientation

Tooltip: Hide the wall section marks in elevations if its defined orientation does not match the orientation of the elevation.

This will resolve the issue of seeing wall section mark from the other side of the building, but you cannot change view depth per design reason.



List All Unit Ids

Tooltip: List all Forged for units



Modify LineStyle in Group(For A.Chi)

Tooltip: WORK IN PROGRESS, attempt to edit the linestyle usage that is bound to groups.



Refomula Label

Tooltip: Sen Zhang has not writed documentation for this tool, but he should!



Rename All Fam

Tooltip: Batch rename Revit families by replacing '_INT' and '_EXT' suffixes with company suffix.

Key Features:

- Processes all families in the current document
- Handles naming conflicts automatically
- Provides detailed progress feedback
- Logs failed rename operations



Replace Keynote With Symbol

Tooltip: Find and replace user keynote with annotation symbol.



Temp Graphic Test

Tooltip: Sen Zhang has not writed documentation for this tool, but he should!



Temp

Tooltip: Sen Zhang has not writed documentation for this tool, but he should!



Transfer Sheet Order

Tooltip: Get the sheet order parameter value to a new format.



resize_wall_tags

Tooltip: Resize wall tags leader length to a user defined model space distance.



sum_area_from_link

Tooltip: Sum all the area from link.



test_coloner

Tooltip: Test to clone from url using LibGit2Sharp.dll



test_schema

Tooltip: Sen Zhang has not writed documentation for this tool, but he should!



(OLD)Excel2Diagram

Tooltip: Sen Zhang has not writed documentation for this tool, but he should!



Align Key Plams

Tooltip: Align all keyplan to one source location viewpotty.



AreaPlan to RoomPlan

Tooltip: Convert all area boundary line to room seperation line, area to room in current view



Assign Linked Views to PlanSet 7

Tooltip: Sen Zhang has not writed documentation for this tool, but he should!



Excel2Diagram

Tooltip: Sen Zhang has not writed documentation for this tool, but he should!



Fillet Area Corner

Tooltip: Sen Zhang has not writed documentation for this tool, but he should!



Load Color Template

Tooltip: Update color scheme with office template excel version

J:\1643\2_Master File\B-70_Programming\01_Program & Analysis\2024-04-11 Color Scheme_LHH.xls.

NOTE: excel should be saved with .xls instead of .xlsx format

Also note, the column header should be as such:

A: Department(Section Name)

B: Department Abbr.

C: Department Color

D: Program(SubSection Name)

E: Program Abbr.

F: Program Color

ANYTHING ELSE IN THE EXCEL FILE WILL BE IGNORED, including the hex code text on color cell and red, green, blue value number.

Those manual color text cannot be trusted on the long run.



Match Phase Sheet Layout

Tooltip: Use me to batch align viewports over many sheet. It search the matching rule by detail number, then apply same title offset and title line length. This is built or LHH phasing diagrams and works way better than Ideate for this senario.



Phase Diagram Layout update

Tooltip: layout viewport on sheet based on the phasing and level name



Rename Views

Tooltip: Sen Zhang has not writed documentation for this tool, but he should!



Smart Match Grid Graphic

Tooltip: This use the grphaical extend setup on all main LifeSafety view as guide to set all plan view grid visual.

It is the best invention since ketchup.



Text Area --> Area

Tooltip: Get the text type parameter value to area value by removing the 'SF' in the value and convert to float type



Update Keyplan

Tooltip: Auto pick keyplan based on the first doc view phase



Update Life Safety Info

Tooltip: Update the life safety information data



Update WWR chart

Tooltip: Update the window wall ratio chart by reading filled region in groups



capitalize_data

Tooltip: Make all area data capitalized



change_para_key_group

Tooltip: Change parameter keygroup of LifeSafetKey



grid_magic_name

Tooltip: Format grid name



publish_360

Tooltip: Sen Zhang has not writed documentation for this tool, but he should!



shift_phase

Tooltip: shift the created phase from 7 to 6



update_delta_area_graphic

Tooltip: update the delta area graphic



update_grid_bldgld

Tooltip: Update grid bldgld with its scopebox information



update_level_relative_value

Tooltip: Update the relative value of the level so one level can display two set of datum.



Open Favorite Views by Set

Tooltip: Open many views by picking from print sets.



Assign Target

Tooltip: Assign targets for symbol families. Pick a symbol family and assign glass/opaque targets.



Window Wall Ratio Sum

Tooltip: Facade Glass vs Opaque Study for Cost estimation



2124_Replace Room Tag

Tooltip: Replacing one type of roomtag on many sheets to another type.

This process is not the same as merging. It is just doing selected replacement.



Align Viewports

Tooltip: Align selected viewports to the right handside, with view title coming to right as well.



Find All Door Not Tagged

Tooltip: Find doors from this project that are not tagged yet. You can pick sheets to process. Only plan views will be considered.

Requested by J.H.Park



Find dup BEA room number

Tooltip: Find room with duplicated BEA room number per phase.



Offset View Crop

Tooltip: Expand or shrink view crop on multiple viewports.



Set Filled Region Boundary Linestyle

Tooltip: Set the filled region border line to a specific line style



Randomly Reduce Panel Selection to 5 pack, requested by Chiwhei

Tooltip: Randomly deselect from selection input.



01_remove not placed area(Legacy)

Tooltip: Legacy, now in review panel



02_fill in default discount ratio if has not been filled

Tooltip: Doc string not set



03.0_Assign Bldg ID data by Scopebox

Tooltip: xxx



03.2_change furnichure level by bldg id

Tooltip: Relocate the furnichure level of the selected elements by building ID



04.1_efficiency block data filler

Tooltip: Get the data reading based on the rule from Efficiency schedule, process them and fill to the graphical symbol data calculator on sheets, which shows the workstation seat count, net area and gross area, and what is the efficiency rate of this level.



05_area to excel 2.0, N3 Only

Tooltip: Gather the data of GFA area plans and publish it to Excel in the format requested by the client.



06_fix keyplan

Tooltip: Batch apply keyplan instance parameter to many sheets.



07_sheet, floor, level and grid plot number

Tooltip: Assign plot ID to all sheet, floor, level and grid elements in project. This is critical for having a accurate shcedule from linked file.



08_prefix views

Tooltip: Prefix user input text before view names. Good for organizing workings such as slab edge drawings and GFA drawings.



09_add node to surf, N3 spehere only

Tooltip: Set surface divider number on selected face.



10_By List: multiple panel radius by host wall

Tooltip: pick panel types to be fixed, it will update the 'R' or 'r' parameter based on the curved host wall



11_prefix grids

Tooltip: Prefix grid name with 'temp'



12_turn on elevator note and update data

Tooltip: Turn on elevator notes about the base level and top level of the elevator model, its usage mark, and when was the last time this scheck was run.



15.1_fix color_room department 2.0

Tooltip: Find the room department that is using names other than agreed name list. And attempt to fix it.

Name list location:

I:\2135\6_Team\CH\2022-03-05 Color Scheme\Room Department Script.txt



16_fix color_area department

Tooltip: If area department is not part of user allowed list, find them and replace them.



17_fix color_area office layout function

Tooltip: Get areas with department assignment outside predefined name list. And attempt to fix them.



18_set bullit point by/to revision on sheet

Tooltip: Transfer the data between issuing parameter and titleblock revision schedule. Also can transfer issue data from last round to current round.



19_[PDF and DWG and JPG exporter] <-----

Tooltip: The original flavour auto-exporter. It export pdf and dwgs and jpg, package them to different folders, and control the print by issuing parameter. The paper size and color setting is picked automatically by sheets parameter.



20_copy material from link, load family(beta) from link

Tooltip: Copy graphical property of material from link, but keep the keynote data untouched.



21.1_Open Many Bili Proj

Tooltip: Open many Bili projects together.



23_frit gradient

Tooltip: Apply grediant frit pattern to the ADP family instance.



24.1_Show/Hide Markups and Office layout 2.0

Tooltip: For office markup elements(internal textnotes, sketch dims, etc), the tool goes thru the entire file and find them on each view, then it either hide and show them based on your choice.



25_remove near or overlapped area or room tags

Tooltip: Remove area tag or room tags that is visually very close on same view.



26_align dim across sheet

Tooltip: NOT IN USE



27_TAG MANY VIEWS---

Tooltip: Select views from project browser, remove tags that are too close to other tags(if they are tagging the same element).

It then tags Objects with user selected type



28_Set/Reset Empty Titleblock.

Tooltip: Some LDI prefer a totally empty titleblock. Unfortunately, the revision schedule cannot be turned on/off by parameter control. SO this tool, will remove the sheet revisions, and store that information at the issue parameters. Then the titleblock can be turned empty. After the export, the tool can be used to recover sheet revision schedule.

Why not switch to another empty titleblock family? Becasue when switching, non-shared-instance-parameter will reset. So you will lose any local setting.



29_transfer area to other scheme

Tooltip: Get the area boundary lines and areas from one area scheme to another.



3.3_recreate room on correct level

Tooltip: Get the rooms that does not have associate level matching building id, then try to recreate this room in the coorrect associate level. This is a common problem in early SD/DD where rooms are created in similar height levels and the information locked to it.



30_remove dup area boundary line

Tooltip: Remove duplicated the area boundary line for each view.



31_what is in design option?(Legacy)

Tooltip: Legacy, now you can do better in color code design option



33_check monitoring status(Site File only)

Tooltip: In the revit file with copy/monitor status, compare how many levels and grids have two way monitor status and how many have one way monitor.

This usually happens when somewhere in the life cycle one side the element is recreated/deleted or massively renamed, which means other link file need to catchup. This takes you further than the native copy/monitor review.



34_uncheck view note and translation from template

Tooltip: Unbind the checkbox for view note and translation parameter from the view templates.



35_Elevation and Grid orth-direction

Tooltip: Check if all of your grids and elevations is orthoganal.



36_repeat ADP

Tooltip: For selected ADP componenets that have been placed. Run 'Repeat' Command for all of them. This saves you huge time on waiting for recalculating patterned placement.



37A_set protected element(grid, level, scopebox)(NOT IN USE)

Tooltip: NOT IN USE



37B_set protected element without name(NOT IN USE)

Tooltip: NOT IN USE



37C_review protected elements(NOT IN USE)

Tooltip: NOT IN USE



38_Purge SubC

Tooltip: Purge Subcategory(Danger)



39_wall max_height

Tooltip: Find the geometrical max height of walls and store that data at 'Element_Max_Height_Report' parameter



40_Floor to Filled region

Tooltip: Recreate a filled region using the same shape as the floor.



41_ check if sheet on schedule

Tooltip: Force to make all sheets check this 'Appears In Sheet List'. You are suggested to always use other method to filter sheets in schedule, because a QAQC sheet schedule should be able to see every sheet, including the ones not for documentation.



42_inspect material keynote, material, family and object style

Tooltip: Inspect the material keynote, material, subCategory relationship and where there are being used.



44.1_update internal dim selection set

Tooltip: Find the dims of internal dim type, and update the selection filter set for filter control.



44_set/recover no color elevation/sections/plans

Tooltip: For many categories, set or recover the color and surface pattern status so the dwg can have non-solid hatch. Many LDI prefer the dwg this way, while office pdf would prefer to show full foreground and background surface pattern.



45_transfer material color background

Tooltip: Make material foreground graphic to background graphic



46A_move elements south 4500 thru copy/delete(NOT IN USE)

Tooltip: NOT IN USE



46B_move elements south 4500 thru move(NOT IN USE)

Tooltip: NOT IN USE



47_Isolate export type for Wall/Floor/Roof/Column/Stair(Legacy)

Tooltip: Legacy, now in Output panel



48_load many families to many docs

Tooltip: Legacy, not under Family Panel



49_Export No Sheet View as Jpgs(Depreciated)

Tooltip: Depreciated



50_Delete view based on jpgs in folder(Legacy)

Tooltip: Legacy, now in view panel



51_rename detail num

Tooltip:

This function renames views in Revit based on their associated level and name. It first selects the views to be renamed. It then loops through each view in the selection and extracts the associated level and key from the view name. The key is used to identify the type of view, and is used in the new view name. The associated level and key are combined to form a new detail number for the view, which is set as the view's "Detail Number" parameter. If the associated level cannot be extra



52_Assign Walltype Filter

Tooltip: Batch create walltype filters with defined color to many view templates.

This is handy when doing the colored wall type diagram elevation.



53_Make walltype legend(Legacy)

Tooltip: Legacy, now do it in output panel



54_Create Shared Para(Legacy)

Tooltip: Legacy, now do output panel



55_Add field to schedule(Depreciated)

Tooltip: Depreciated



56_Create revisions(Depreciated)

Tooltip: Depreciated



57_break composite floor

Tooltip: For composite floor element, recreate the finish and structrue slab as seperate element. It will use the source footprint for both outcomes.



58_Copy selected template to other open doc

Tooltip: Copy selected view templates to other open models.



60_detect_FOG

Tooltip: Detect the FOG of curtain to the nearest palleral grid line.

The result is ranked by how off the distance are to the nearest whole number.

It also provide links to the problem curtain wall, and will attempt to create a working view to help you fix them.



61_Import Rhino camera(Legacy)

Tooltip: Legacy, now in view panel



62_check sheet value

Tooltip: Check esential sheet value has been assigned.



63_Get model GUID

Tooltip: Get the GUID for current model. This is the identifier on BIM360 server.



64_3D workset views(Legacy)

Tooltip: Legacy, now do it in view panel



65_replace_dim_text

Tooltip: Replace the dim text that is below the dim number in current document from A to B.

For example, changing from 'FOG' to 'F.O.G.'



66_bundle Rhino(NOT IN USE)

Tooltip: NOT IN USE



67_mark preserve color fillregion and detail item type

Tooltip: Sometimes you want to set certain filled region and detail item to be graphically controlled separately from the category graphic. So you can use filter to assign special graphic. But the setting inside the type parameter might not be reflected on the type name. So this tool will lookup for those conditions and append '_preserved color' in type name as it is easier to be found.



68_stair_end_with_riser(Checker)

Tooltip: Check if the stairs are ending with a riser.



69_stair_end_with_riser(Fixer)

Tooltip: Try to fix stairs that has end with a riser checked.



70_FRW Dims(NOT IN USE)

Tooltip: NOT IN USE, attempt to auto dimension distance between FRW windows



71_check_level_id

Tooltip: Print out all levels, ranked by elevation, to show level names and its level id data



72_fix_area_view_title(NOT IN USE)

Tooltip: NOT IN USE



73_find_EOS_in_FOG_family

Tooltip: Find the modular marker family that have the EOS instance parameter turned on/off.



74_bring_size_from_old_door

Tooltip: Get door size data from old file. Apply to current file by matching GUID.



75_Fix Wall And Room sp_line Overlap

Tooltip: In the standalone window, you can zoom in with section box to a region that have wall and room separation line overlay warning.

As you are fixing it, you will see the warning count going down.



76_load 2D family from container link(Legacy)

Tooltip: Legacy, now in family panel



77_Create/Update detail item from CAD

Tooltip: For each selected dwg file, create new detail item family and load in the dwg, save family as the same name as the dwg, then load the family to project.

This batch process is handy when your consultant gives you dozens of CAD drawing and you need to convert all of them to detail item family.

You should also checkout EnneadTab for CAD for some CAD batch processing related to this workflow.



78_Mark RFR

Tooltip: Mark detail items on this QAQC view with info about how many of this instance have been placed on other views of the document. And if more than one, which view.

Handy after you brought in many contents from container file on day one and one day ten, you want to know how many have been deployed on the document.



79_map_instance_property(legacy)

Tooltip: Legacy, now under family panel



80_tag_room_too_high

Tooltip: Get rooms that is overlapping other rooms, and tag them in views from selected sheets.



81_find_section_mark_not_from_sheet

Tooltip: Locate sections in the viewport of the sheet that is referring to views from other sheet. For system drawing, most detail section mark should refer to current sheet.



82_Link Dummy Callout To View From Link

Tooltip: Assign a stable ID when creating the dummy reference. So even if future session, the dummy callout can still find the desired view data in the link file, and update the view detail number and sheet number shown on the small circle.



83_Update Linked Dummy Callout

Tooltip: Update the view detail number and sheet number data based on the linked dummy callout. You need to have the related link loaded for it to find the linked view.



84_sheet_translator

Tooltip: DO NOT USE, use newer AI translator



85_adjust_line_pattern_definition

Tooltip: Adjusting the line pattern definition to remove very similar but different definition, WIP



88_find_empty_tag

Tooltip: Find keynote tags that is current empty.



89_identify_level_for_cw_panel

Tooltip: Find the nearest level by boundingbox lowest Z, then apply vent level as Comments



92_adjust_fin

Tooltip: Adjust fin height by intersecting detail line.



Alias not set

Tooltip: xxx



Note: toolbar version 12.1

Tooltip: If 2135 toolset not working for you, restart you revit to receive current update



(Un)Register Area Comment Live Updater

Tooltip: Registration tool for automatic Area comment updates from Excel data. Monitors area elements for changes and syncs with external data.



Colorize Pills

Tooltip: Colorize the diagram pills, requested by Gayatri



DEPRECATED: Confirm RGB

Tooltip: Even when you type in the RGB value in excel, that might get changed by someone in the future and cannot be trusted. I suggest to NOT include RGB value in the excel so there is only one source of truth, but if the team REALLY need to have RGB value in excel written out, run this to confirm the color of cell is matching the number in excel



DEPRECATED: Load Color Template

Tooltip: Update color scheme with office template excel version

J:\2151\2_Master File\B-70_Programming\03_Colors\Color Scheme_NYULI_Active.xls.

NOTE: excel should be saved with .xls instead of .xlsx format

Also note, the column header should be as such:

A: Department

B: Department Abbr.

C: Department Color

D: Program

E: Program Abbr.

F: Program Color

ANYTHING ELSE IN THE EXCEL FILE WILL BE IGNORED, including the hex code text on color cell and red, green, blue value number.

Those manual color text cannot be trusted on the long run.



DEPRECATED: Query Main Excel

Tooltip: Use the shaed excel file to read the correct naming for department and program type. Provide solution to batch fix.



DEPRECIATED:Detailed Program Chart Update

Tooltip: Basic area summary checker that update the data in special calculator.

This is also hooked to the sync event for this project. Request by Gayatri



DGSF Area Data Name Check

Tooltip: Sen Zhang has not writed documentation for this tool, but he should!



Match Container

Tooltip:

Use container file as base to compare BIM data to other major NYULI docs for consistency.



Pick Name

Tooltip: Pick your pill, then assign name from a list. Request by Gayatri



Set Linked View

Tooltip: Set linked view for projects by a map.



Show Parking Mark

Tooltip: Sen Zhang has not writed documentation for this tool, but he should!



Transfer In Excel Target

Tooltip: Extract program information from Excel and transfer target value based on program name.



Update Dummy Patient Room

Tooltip: Update the data for dummy patient room so its data is correct in schedule.



Update Material Setting

Tooltip: Sen Zhang has not writed documentation for this tool, but he should!



Update Parking Data

Tooltip: Update tehe parking dataso it make sense in schedeuL.

Note: this tool is to be run so first all parking stall update instance parameter.
For the Site file it do the additional super summery.



Get Special Selection

Tooltip: Based on the special brep defined in Rhino file, highlight specific panel instances in the current document.



Checker Board Selection

Tooltip: Get checker board A/B selection from the curtain wall, requested by Furui



(Deprecated)Format Egress Doors

Tooltip: Make sure all door with Egress Id is accounted in the calculator collection.



(Deprecated)Format Egress Stairs

Tooltip: Make sure all egress stair has consistent width on run, and push that to calculator stair width



(Deprecated)Format New Area

Tooltip: Make sure all areas have at least a valid discount data.

Make sure all areas have department data.



(Deprecated)Format New Rooms

Tooltip: Make sure all room 'Rooms_\$LS_Occupancy Manual' is at-least zero.

Also transfer the name of the life safety key to the title so you can see it on tags.



(Deprecated)Format New Sheets

Tooltip: Make sure all sheets have a default Print_In_Color value.

Make sure all sheets show in shecule



(Deprecated)Update Stair Capacity Calculator

Tooltip: Gather the room life safety data from rooms of each level can sum and feed into the Stair Capacity Calculator for capacity required.



All Cap Sheet Name and View Name

Tooltip: Make sure all sheet names and view names are capped.



Auto Detail Num

Tooltip: Set the smallest detail number on sheet viewport to be 10.



CAP_ALL_ROOM_NAME

Tooltip: Make all room name as full CAP



Excel Sheet Creator

Tooltip: Create new sheets based on data from Excel



Factory Internal All-In-One Check

Tooltip: All In One Checker



Line2Structure

Tooltip: Convert line in Rhino into Revit Structure frame. Become a archi-column, strcutre column or frame needs to be defined in previous step at Rhino.



Remove Sheet Name Prefix Underscore

Tooltip: Remove the sheet name underscore prefix.



Set Revision By BlackSquare

Tooltip: Transfer the data between issuing parameter and titleblock revision schedule. Also can transfer issue data from last round to current round.



Transfer Old Room Data

Tooltip: Transfer room occupancy load data from old parameter to new parameter. See detail in script



All In One Checker

Tooltip: Basic area summery checker that update the data in special calculator.

This is also hooked to the sync event for this project.



Assign Mirrored Panels

Tooltip: For Ethan's beautiful diagram.



Assign Door Mat

Tooltip: Assign materials to door panels and frames in the current phase using instance parameters Door_{\$Panel_Material} and Door_{\$Frame_Material}



Check DWG Export Layer Mapping

Tooltip: check NYU CAD export layer mapping rule



Room To Door Mark

Tooltip: Update door marks based on their To Room parameter values. If multiple doors lead to the same room, append A, B, C etc. to make them unique.



Test Door Data

Tooltip: Sen Zhang has not writed documentation for this tool, but he should!



Update Life Safety

Tooltip: This tool updates life safety parameters in a Revit project, ensuring compliance with occupancy and egress requirements.



Welcome Sparc

Tooltip: Sen Zhang has not writed documentation for this tool, but he should!



Chained Family Loading

Tooltip: Sen Zhang has not writed documentation for this tool, but he should!



Chained Family Opening

Tooltip: Sen Zhang has not writed documentation for this tool, but he should!



Print All Family Name

Tooltip: Sen Zhang has not writed documentation for this tool, but he should!



Fire Door Checker

Tooltip: Find rated walls and doors in the model and highlight them in schedules.

Main Steps:

1. Locate all rated walls based on fire rating parameter
2. Find doors hosted on rated walls
3. Cross reference with door schedule
4. Highlight rated doors in schedule by changing text color to red

Optional:

- Creates a report of findings
- Allows for parameter verification



Associate Parameter To Family

Tooltip: Associate parameters to family, to be fulfilled by Colin



Test Encoder 2025

Tooltip: Sen Zhang has not wrote documentation for this tool, but he should!