



4D PHASE WALKER

USER GUIDE VERSION 1.0

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1.0 WHO IS THIS APP FOR?

All Revit Power users. This app is for daily users of Revit of any discipline who frequently create 4D sequencing and need to review, change, or manage phases and phase filters across different views.

2.0 WHAT DOES IT DO?

- **Unleash the Power of Phasing:** Use phases and phase filters effortlessly to review the lifecycle of your project model with one click.
- **Dual Mode:** Instantly switch between adjusting the View's Phase or the View's Phase Filter using a simple Toggle button.
- **Review Phases Instantly:** Use Up/Down arrows to walk (cycle) through phases or phase filters forwards and backwards in time. Walkies!
- **Cycle Phases (Auto-Cycle):** Hit one button and watch Revit automatically step through every phase at a timed interval — hands-free 4D playback of your project's construction timeline directly inside Revit.
- **Configurable Timer:** Set the auto-cycle speed from 0.1 seconds (rapid-fire) up to 10 seconds per phase, giving you full control over playback pace for presentations, screen recordings, and reviews.*
- **Browse Pick List:** A smart Selector Form allows you to instantly browse and select phases and phase filters directly from the Revit Ribbon, saving you from navigating through standard property menus or the Manage tab.
- **Smart Search:** Start typing in the text box in the ribbon and hit Enter to filter and find exactly what you need without diving into menus.
- **Visual Feedback:** See the active phase or phase filter name displayed clearly in the ribbon.
- **Auto Save Initial State:** When a view is opened, its initial phase and phase filter are temporarily recorded. You can reapply them anytime with the Restore button, restoring the initial state after 'walking' through other phases.
- **One Click Open Phases Dialog:** Quickly jump into Revit's native Phases menu to manage or create new phases.
- **One Click Phase Deletion:** Easily delete the currently active phase direct from the ribbon.

*N.B. Model complexity and size does affect timer settings

3.0 WHAT ARE THE BENEFITS OF USING IT?

- **Presentation Ready:** Professional Stress-Free Phase Change in the same view. No more fumbling with the properties panel! Change Phases and Phase Filters on the fly.
- **4D Playback:** Use Cycle Phases to automatically animate your construction sequence inside Revit. Present 'LIVE' 4D construction animations to clients directly from Revit. Perfect for preparing exports to Navisworks, Synchro Pro, or rendering tools like Twin motion and Enscape. Use any screen recorder (like OBS) to grab your animation and send out to clients.
- **Express Model Reviews:** Rapidly switch between phases to view Existing, Demolished, and New Construction elements. Just step through your project lifecycle timeline.
- **Efficiency:** Get rid of all those niche views! No need to store separate views with just a different phase applied; use a general working view and just switch out the phases fast.
- **Speed:** Jump to the exact phase or phase filter you need with the predictive quick-search dropdown list. Saves you time clicking through deep dialog menus.
- **Focus:** Keeps you in the design flow. Change the phase in any view without losing your context by quickly reapplying the original setting with the restore button.
- **WYSIWIG:** Quickly review phases, ensuring you have correctly assigned the proper phases to your building elements.
- **Ease of use:** Simple, intuitive interface that looks and feels like a native part of Revit.
- **Compatible:** With Single-User, SSO & Autodesk Flex Token Licensing (User signs in to Autodesk Account to Use Revit.)

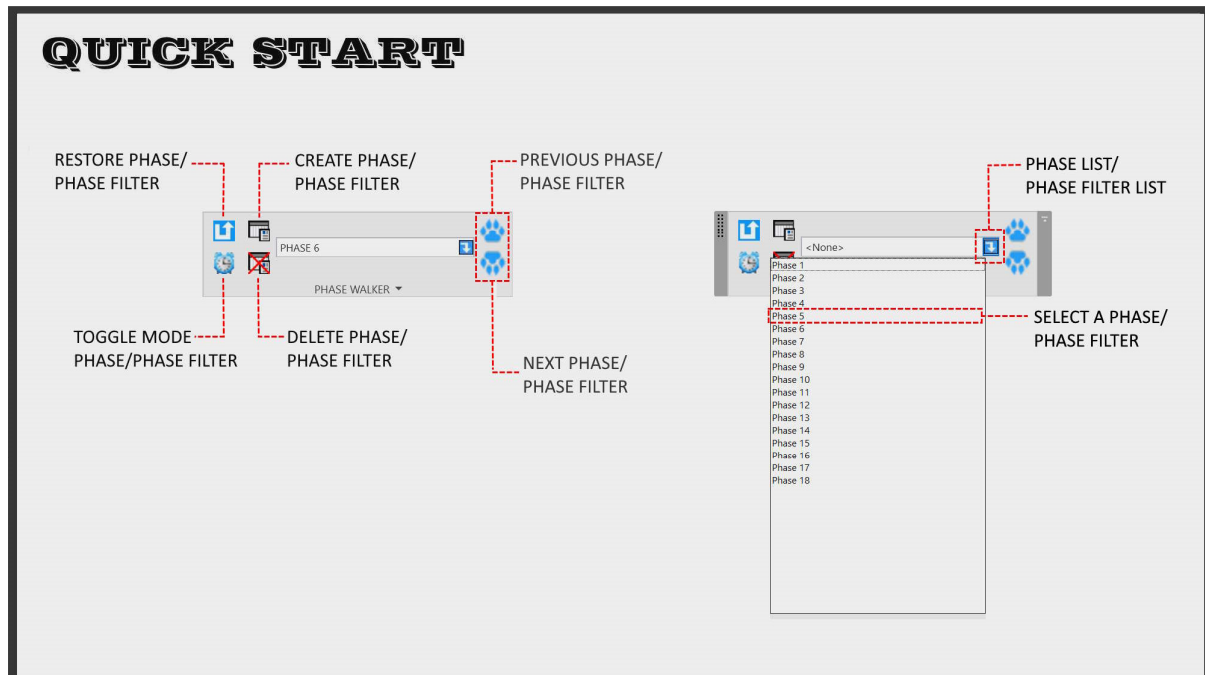
4.0 INSTALLATION

The installer will run upon downloading this add-in from the Autodesk App Store, initiating the installation process for the add-in. Alternatively, you can double-click on the downloaded file to install the add-in. Following installation, you will need to restart Revit to activate the add-in.

5.0 UNINSTALLATION

To uninstall the plug-in, exit Revit, rerun the installer, and opt for the "uninstall" button. Alternatively, navigate to Control Panel > Programs > Programs and Features (Windows 10/11) and uninstall the application as you would any other from your system.

6.0 QUICK START:



Open any graphical view (Floor Plan, Section, 3D View).

Go to the Raking Brace tab on the Ribbon.

Locate the Phase Walker panel.

Use the Toggle icon to switch between Phase and Phase Filter mode.

Click the Down Arrow (Paw) to apply the next available phase/filter in the list.

Click the Up Arrow (Paw) to return to the previous phase/filter.

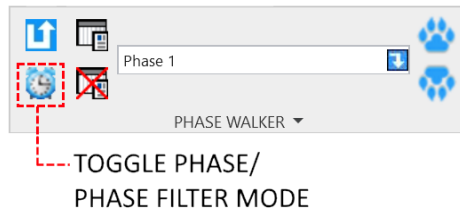
Activate the text box and press Enter, or click the Quick List button, to select a specific phase/filter from the dropdown form.

Click Cycle Phases to start hands-free auto-cycling through every phase at the set timer interval.

7.0 DETAILED USAGE

7.1 TOGGING BETWEEN PHASE AND PHASE FILTER MODES

Phase Walker features a dual mode allowing you to navigate either the View's Phase or the View's Phase Filter.



- Click the Toggle button on the ribbon to switch between modes.
- The button's icon and tooltip will update to indicate whether you are currently modifying Phases or Phase Filters.
- The Ribbon text box will update to show the currently applied Phase or Phase Filter for the active view.

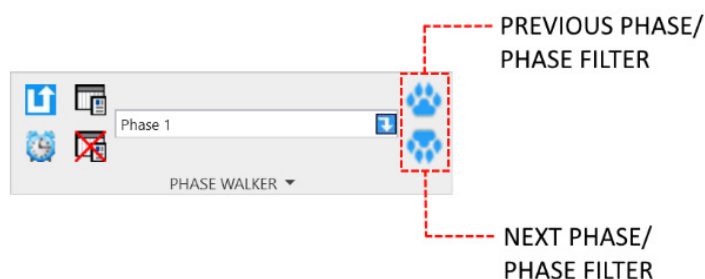
7.2 SWITCHING PHASES/PHASE FILTERS WITH NEXT & PREVIOUS BUTTONS

The primary function is to quickly apply phases and phase filters.

Next in List: Click the Down Arrow (PAW) button to 'WALK' downwards through the time-ordered list of phases or alphabetical list of phase filters.

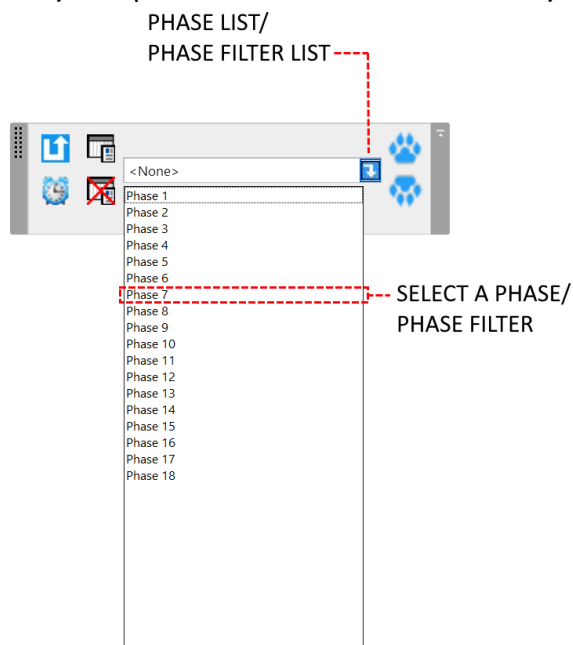
Previous in List: Click the Up Arrow (PAW) button to 'WALK' upwards in the list.

The text box will update immediately to show the name of the newly applied phase or filter.

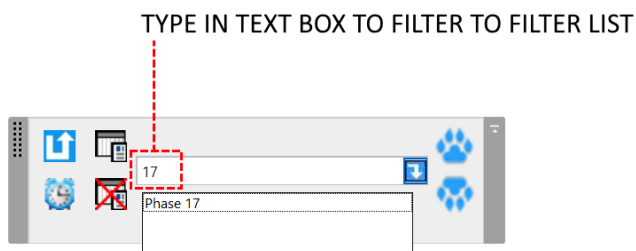


7.3 SWITCHING PHASES/FILTERS WITH QUICK SEARCH LIST

Click the Quick List button, or click into the textbox and hit Enter. A dynamic Selector Form containing all the phases or phase filters in the project will appear right near your mouse cursor. Click on an entry in the list, or use the up and down keyboard cursor keys to select an entry and press Enter. It will be immediately applied to the active view.



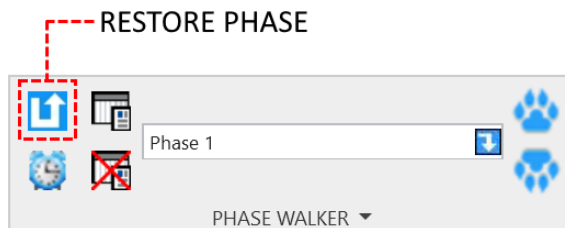
Filtering the drop-down list: Start typing a phase name in the ribbon text box and press Enter. The Selector Form will pre-filter to show only the items whose names contain the letters typed.



7.4 RESTORING A VIEW'S INITIAL STATE

When you open and switch to a new view, Phase Walker securely records the initial Phase and Phase Filter settings behind the scenes.

After you are done 'walking' through the project's timeline and exploring different filters, you can hit the Restore button to snap the view instantly back to its original settings. This safeguards your view and ensures you don't accidentally leave it in the wrong phase before continuing your work.

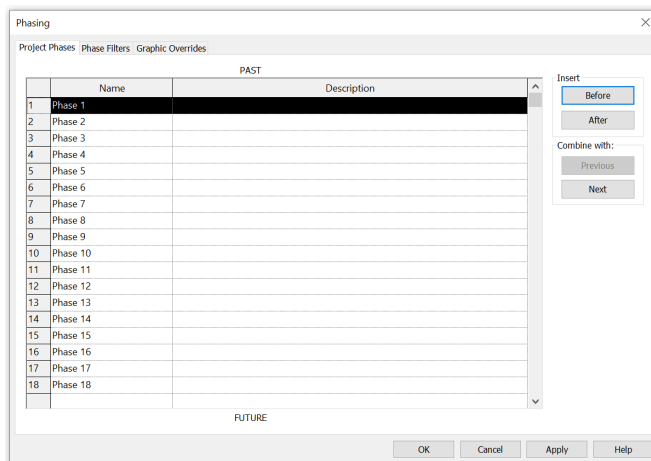
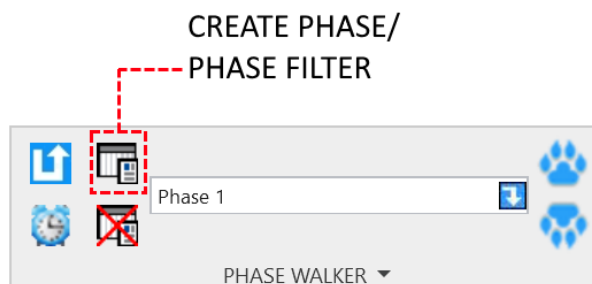


7.5 CREATE PHASE/PHASE FILTER

If you need to quickly add a new Phase to the project:

Ensure Phase Walker is currently in Phase module mode (using the Toggle button).

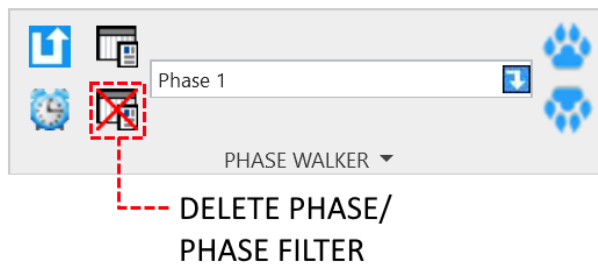
Click the Create Phase button. Phase Walker will instantly execute a macro to open Revit's native Manage > Phases dialog, enabling you to create new phases seamlessly.



7.6 QUICK DELETE PHASE/PHASE FILTER

There is a Delete Phase button available. This allows you to quickly remove the active phase from the project after a confirmation prompt. Use this to clean up temporary or redundant phases.

*Note: Please exercise caution as deleting a phase will also affect elements created or demolished on that phase, per standard Revit behavior.



7.7 CYCLE PHASES (AUTO-CYCLE) & TIMER SETTINGS

The Cycle Phases button enables hands-free automatic playback of your project's phasing timeline.

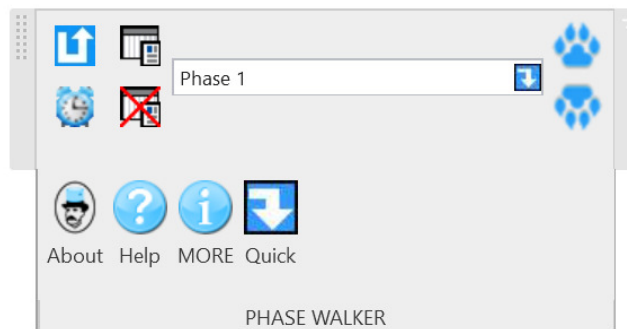
STARTING AUTO-CYCLE Click the Cycle Phases button on the ribbon. Phase Walker will immediately begin stepping forward through every phase (or phase filter, depending on the current toggle state) at the configured timer interval. The button text changes to "Stop Cycle" while active.

STOPPING AUTO-CYCLE Click Stop Cycle (the same button) to halt the automatic cycling at any time. The view will remain on whichever phase it was showing when you stopped.

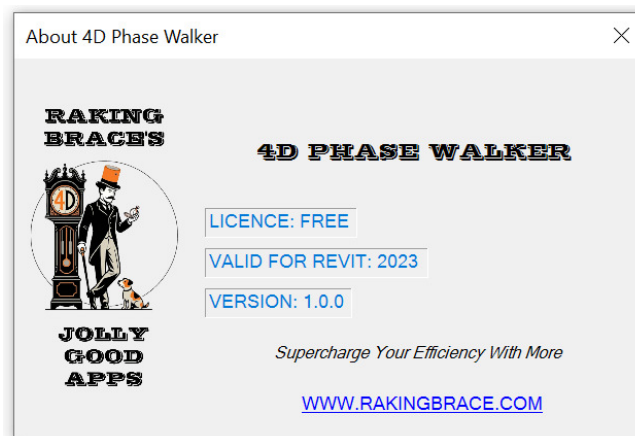
ADJUSTING THE TIMER INTERVAL Click the Timer Settings button (available in the slide-out panel) to open the Auto-Cycle Timer Settings popup. Use the numeric control to set the interval between phase changes, anywhere from 0.1 seconds (rapid) to 10 seconds (slow). Click OK to apply. If auto-cycle is already running, the new interval takes effect immediately — no need to stop and restart.

TIPS • Use a fast interval (0.1–0.5s) for quick scan reviews of your phasing. • Use a slow interval (3–10s) for live client presentations or screen recordings, giving the audience time to absorb each phase. • Auto-Cycle respects the current toggle state: in Phase mode it cycles through phases; in Phase Filter mode it cycles through phase filters. • Auto-Cycle is automatically stopped when Revit is closed or when you switch documents.

7.8 ABOUT, HELP & MORE BUTTONS



The **About** button shows information regarding the plug in itself, Licence details, Revit version & App version number



The **Help** button takes you to the user guide available for download from the RAKINGBRACE.COM website

The **MORE** button takes you to the Apps page on the RAKINGBRACE.COM Where you can browse other fantastic game changing Apps.

8.0 UNLEASH THE POWER OF PHASES

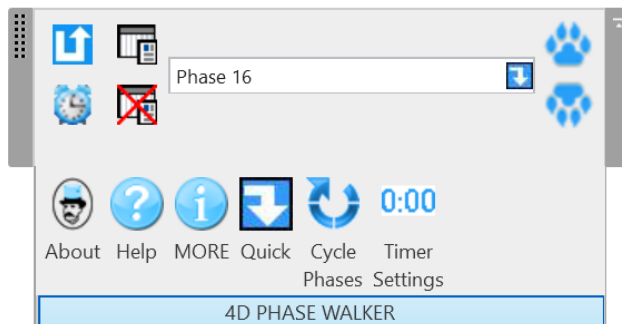
Revit's phasing is one of its most powerful features for project renovation, construction sequencing, and historical review. Combined with phase filters, they allow us to visualize building transformations over time.

We can effectively use Phase Walker to simulate 4D construction timelines, reviewing site changes simply by clicking the up and down arrows. Changing phases traditionally requires selecting a view, navigating deep into the properties palette, and clicking dropdowns. This App makes it incredibly fast and easy to navigate your timeline directly from the ribbon tab, or even the Quick Access Toolbar!

Example: Rapidly Review Construction Progress If you have multiple phases representing weekly construction tasks, you can simply open a 3D view and use the Phase Walker Next and Previous buttons to effortlessly watch your building grow on the screen. It allows you to pinpoint visualization clashes sequence by sequence without ever having to touch a standard properties dialog again.

Even better — hit Cycle Phases and let Phase Walker do the clicking for you. The entire construction sequence will play back automatically at your chosen speed.

9.0 4D VISUALISATION — CYCLE PHASES IN ACTION



The Cycle Phases feature is a game-changer for anyone involved in 4D planning, coordination, or stakeholder communication. Here is how to leverage it across different workflows:

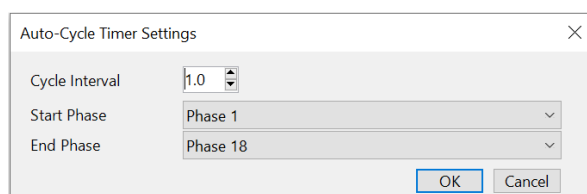
LIVE REVIT PRESENTATIONS TO CLIENTS Open a 3D, plan or section view in Revit. Set the timer to a comfortable interval (e.g. 3–5 seconds) via Timer Settings. Click Cycle Phases. Your model will animate through every construction phase directly inside Revit without leaving the application. No additional software, no exported videos, no slide decks — just live, interactive 4D *. N.B. large complex models, lots of elements, links on, high detail level, annotation categories on, shadows on, high detail level will affect the speed at which phases can be switched in a view causing the timer to drift, it is recommended the user experiment with these settings to find a suitable combination slow the switching of phases)

PREPARING 4D EXPORTS FOR NAVISWORKS & SYNCHRO PRO Before exporting your Revit model for 4D scheduling tools like Navisworks TimeLiner or Synchro Pro, use Cycle Phases to preview and validate each phase's element visibility. This ensures that the correct elements appear and disappear at the right stages, so your Navisworks or Synchro 4D simulation is accurate from the start. Fix issues inside Revit, not later in the coordination tool.

SCREEN RECORDING. Start a screen recorder (e.g. OBS, ShareX, Windows built-in). Click Cycle Phases and record as Phase Walker steps through the timeline. The recorded footage can then be imported into any video editor for polished 4D visualisation clips without needing to manually switch phases frame by frame.

DESIGN TEAM REVIEWS & QA During internal team reviews, Cycle Phases lets you rapidly scan through every phase to spot: Elements incorrectly assigned to the wrong phase., Demolished elements not being removed at the right time., Phase filter inconsistencies across views. Use a fast timer (0.1–0.5s) to quickly identify problems, then slow down or stop on the specific phase that needs attention.

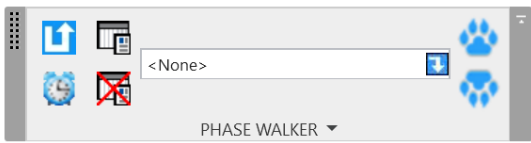




STEP-BY-STEP WORKFLOW









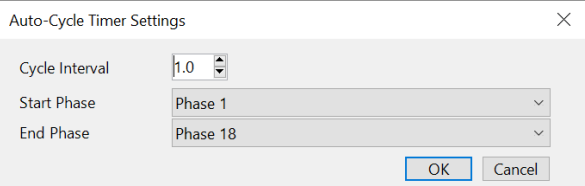


1. Open a 3D view or any graphical view in your Revit project.
2. Ensure your project has multiple phases set up (Manage > Phases).
3. Set the desired timer interval via the Timer Settings button.*
4. Pick a start and end phase to loop between
5. Ensure the Toggle is set to the correct mode (Phase or Phase Filter).
6. Click Cycle Phases. Phase Walker will automatically step through each phase/filter sequentially.
7. Click Stop Cycle when you want to halt the playback.
8. Use the Restore button to return the view to its original phase and filter state.

* Complex large models will slow the cycle feature down so a setting of 1.0 in a small model will approximate one second but in the larger model it may equate to two seconds, use it as a relative measure of cycle flipping rather than an accurate metric.

10.0 RIBBON TAB CONTROLS (TABLE)

REF.	RAKING BRACE RIBBON	COMMAND	COMMAND DESCRIPTION
10.1		RIBBON TAB	See Below
10.2		PREVIOUS PHASE/PHASE FILTER, NEXT PHASE/PHASE FILTER	'Walk' step though All the projects phases or phase filters
10.3		CREATE PHASE/CREATE PHASE FILTER	Opens Revit's native Manage Phases dialog
10.4		DELETE PHASE/DELETE PHASE FILTER	Deletes the current phase
10.5		REAPPLY PHASE BUTTON	Restores the phase that was applied when

			the view was last activated.
10.6		TOGGLE PHASE/PHASE FILTER	Switches the tool between Phase Navigation and Phase Filter Navigation Mode
10.7		CYCLE PHASES	Starts/Stops automatic timed cycling through all Phases or Phase Filters in the project
10.8		TIMER SETTINGS	Opens a popup to configure the Cycle Phases interval (0.1 to 10 seconds)
10.9	<p>Textbox displays the views current phase/phase filter</p> 	PHASE/PHASE FILTER DROP DOWN LIST	Clicking the button activates a drop-down list showing all the projects view templates
10.10		ABOUT BUTTON	Displays the Apps Licence Information, Compatible Revit versions & App Version Information plus Web Site Link
10.11		HELP BUTTON	Opens The Help Documentation on The Raking Brace Website
10.12		MORE INFO	A link to the rakingbrace.com website showing you MORE GREAT APPS!
10.13		QUICK ACCESS	Right click and add the drop-down list to the quick access toolbar
10.14		AUTO CYCLE SETTINGS	Set the cycle interval and phase loop range here

