



AA®720 Pivot Window  
Revit 2015 User Guide



ARCHITECTURAL ALUMINIUM GLAZING SYSTEMS

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## Kawneer AA®720 Pivot Window System

The Kawneer AA®720 Casement Window System offers uncountable variations to suit any project specific requirement. To ensure that the BIM content for this system is equally as flexible the AA®720 system, it has been setup as a curtain wall system rather than a typical window. By doing this we believe we have covered the extensive variations the Kawneer AA®720 Pivot Window System offers.

The AA®720 Pivot Window System can be used to fashion individual window configurations or incorporated into larger systems working alongside the Kawneer AA100 & AA110 Curtain Wall System components also available for download. This user guide will provide you with all the necessary information to make full use of the AA®720 Pivot Window content.

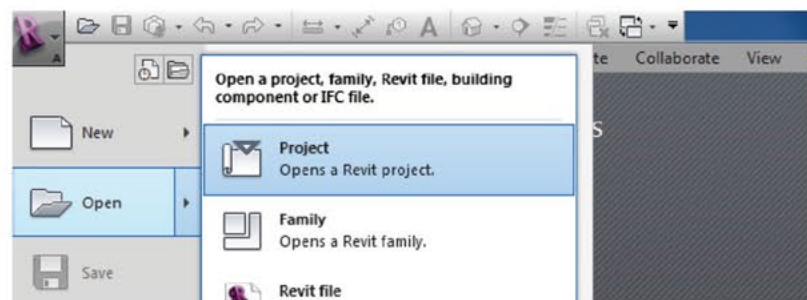
## Loading the AA®720 Pivot Window System component into your project

The Kawneer AA®720 PivotWindow components have been modelled as Revit curtain wall systems and have a set of pre-configured curtain wall types to assist the user when building up their own configurations. For simplicity, we consider these types as the external frame which should be set up first before moving on to opening lights and detailing.

The first part of the process is to understand which of the external frame types you are using. Typically this will be a Fixed Frame system however curtain wall adaptor, HI & HW versions are also included.

Curtain walls in Revit are classed as a system family, this means it isn't a component as such and cannot be loaded as a typical Revit family. You can copy the AA®720 curtain wall system or pre-configured arrangements into your project using the following method:

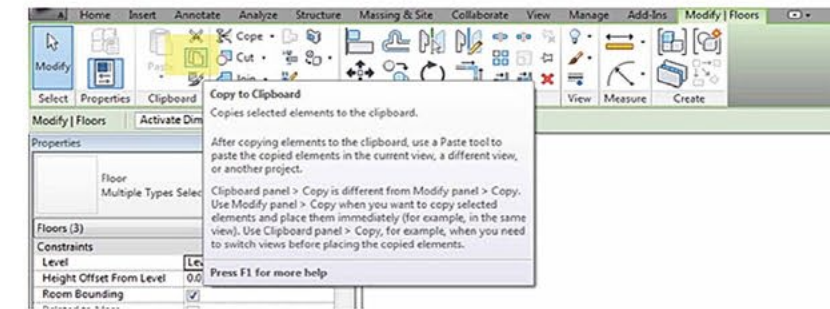
1. Open the Revit file containing your 'project', and navigate to an appropriate floor plan view.



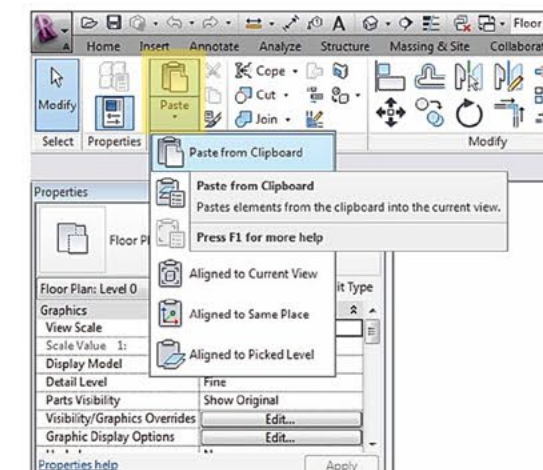
2. Save the component that you downloaded from bimstore to your desired location on your computer (in line with your company protocols).

3. Now open the AA®720 Pivot Window project that you have downloaded from bimstore. The default view that opens will be a plan view. Navigate around the project and choose the items you wish to copy. This can either be the system as a whole or one of the pre-configured types that have already been set up for you.

4. Now copy the component to your clipboard (shortcut Ctrl+C) or from the main Revit ribbon as indicated below. (Note: Only the items selected [i.e. Mullions, transoms, glazing/solid panels etc] will be copied and available to paste into your project model). Please ensure that you are taking the whole system you require including the desired opening lights.



5. Now go to your project (plan view) and paste the element into your project (shortcut Ctrl+V). If you have placed one of the pre-configured arrangements you can simply now position this and cut it out of the desired wall.



6. The curtain wall system is now copied and embedded into your project and can be selected from the wall type selector within your project BIM. You can delete the item you pasted into your 'Revit model' and the wall type will remain within your project.

You now have all the pieces in place to begin creating your own configuration of the AA®720 Pivot Window System.



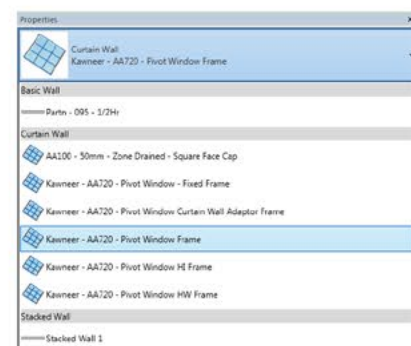
## Setting up your Kawneer AA@720 Pivot Window configuration

With everything in place you can now begin to set up your desired configuration of the AA@720 PivotWindow using the following method:

1. In an appropriate 'plan' view, select 'Wall' from the 'Architecture' tab on the main Revit ribbon. Use the 'Properties' drop down box on the left hand of the screen to select your external frame wall type. (Alternatively, select any of the AA720 curtain wall types and draw as individual windows, then resize to suit).

2. Now we will set up the external frame for the window ensuring that the shape of the window as a whole is as per our configuration. Click in the plan view to begin drawing the length of the curtain wall, alternatively type the length in to achieve a more accurate length of window.

3. With the Curtain Wall selected you can then amend the height in the 'Properties' dialogue box or go to a 3D view or elevation to use the pull handles.



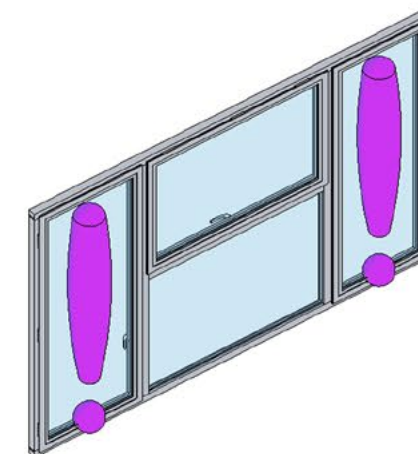
4. Now we need to split the window up in to various sections to cater for fixed lights and pivot panels. Use the 'Curtain Grid' tool also located on the 'Architecture' tab of the Revit ribbon. Set up the configuration you require using both horizontal and vertical grids. If you require a grid not to go the full length or height, tab over the newly appeared mullion until you see the dotted grid line. Select the grid line and the 'Add/Remove Segments' button will appear on the Revit ribbon. Remove the sections you don't need.

5. The arrangement of your configuration is now set up, however as standard all of the panels will be as fixed lights. We now need to change the fixed glass panels to opening pivot lights. Hover over the panel you wish to change, use tab to highlight the curtain wall glass panel. As standard these are typically pinned. Click the pin icon to unpin the glass panel. You are now able to select an opening light from the 'Properties' dialogue box. These types include;

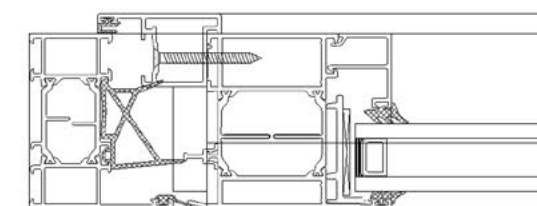
- Horizontal Vent
- Vertical Vent
- Horizontal Vent with Transom
- Vertical Vent with Transom
- Horizontal Large Vente
- Vertical Large Vent
- HW Horizontal Vent
- HI Horizontal Vent

6. Your window is now the correct arrangement and has its opening lights. If your opening lights have been oversized above the recommended size from Kawneer an exclamation point will automatically appear to let you know that the window is oversized and you should contact Kawneer Technical Support for further guidance.

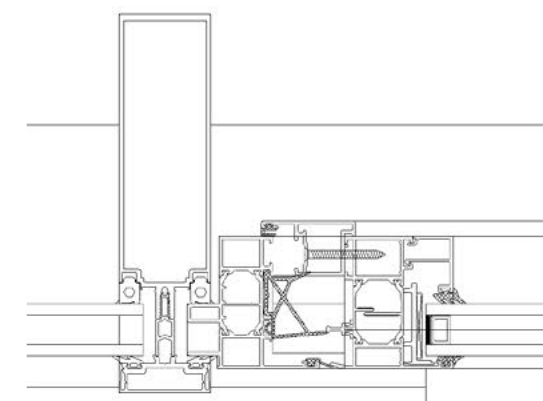
7. The final part of the process is to amend the mullion types to be correct so that the detailing of the window is in line with Kawneer's detailing. Please ensure that all details are checked and approved by Kawneer. All of the required details have already been set up for you to use. Start with the plan details, go to a plan view which cuts through the window. Please note if you have a tall window that covers multiple levels you will need to cut sections through the window at these various heights to change the details. Then do the same for the section details.



If you have a pivot opening light the details will already be correct as this is the default set up. However if you have added fixed lights the detail will need amending. Simply zoom in to the detail and select the mullion/transom. Again mullions and transoms are typically pinned as default so click the pin icon to unpin the mullion.



From the 'Properties' dialogue box you can now select the correct mullion type for every scenario. These have been named as clearly as possible to assist the user.





## Using the Kawneer AA®720 Pivot Window with the AA100 & AA110 Systems

The Kawneer AA®720 Pivot Window System can also be used to sit within the Kawneer AA100 & AA110 Curtain Wall Systems. The BIM components have also been set up to cater for this compatibility.

To use the two systems together please use the following method;

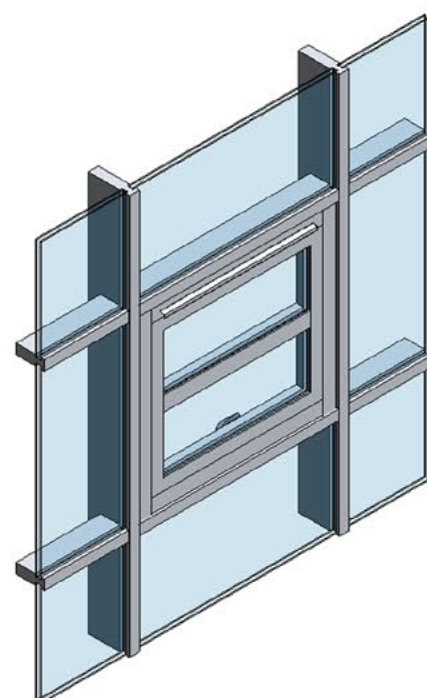
1. Open your Revit file containing your 'Project', and navigate to an appropriate floor plan view.
2. Now open up the two system files you wish to use. For example the AA®720 Pivot Window and the AA100 Curtain Wall System. Using the steps as described in this user guide and the AA100/AA110 user guide copy and paste the elements into your project file.
3. Set up your AA100/AA110 Curtain wall System as you require.
4. Similar to changing the curtain wall panels from glass to an opening light, select the glass panel you wish to change, scroll to the top of the 'Properties' drop down box and insert a curtain wall system within a curtain wall system. Select the AA®720 Pivot Window Curtain Wall Adaptor Frame to place this in the AA100/AA110.

Please note that when initially inserting the AA®720 pivot window, it may appear slightly out of position. Please select the pivot window and ensure that the tick box 'In Curtain Walling' is selected, click 'Apply' this will set the window in the correct location.

5. You can now tab through to select the curtain wall glass panel within the system, unpin and change this to a range of pivot opening lights as required.

6. Once you have the system set up you will need to adjust the mullion / transom details as highlighted in the previous phase of this user guide. The mullion and transom types for the AA®720 system embedded into the AA100/AA110 are known as curtain wall adaptors and are -preconfigured for you to use;

- Pivot\_Window-Curtain Wall Adaptor-LHS/Base
- Pivot\_Window-Curtain Wall Adaptor-RHS/Head

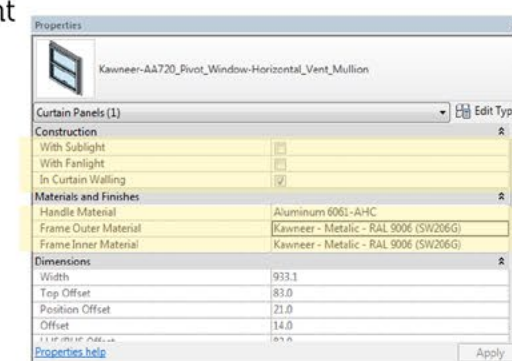


## Using the AA®720 Pivot Window Additional Features

The Kawneer AA®720 Pivot Window Opening Light components have additional features built-in to assist the user when specifying and scheduling the BIM components, these include automatic ironmongery requirements, position assistance and user selectable materials. To use these additional features please follow the steps below;

1. With the Pivot window loaded and positioned in your project, select the opening light. Once selected the 'Properties' dialogue box will appear on the left hand of the screen.
2. Scroll down the 'Properties' dialogue box until you reach the heading 'Construction' and 'Materials' in these boxes you will have tick boxes for a variety of options.
3. Tick the selected options and choose 'Apply' to switch the default position of the opening light based on the configuration.

4. We have also built in user adjustable material options for the Inner and Outer frame of the AA®720 Pivot Window opening lights, allowing the user to take advantage of the Kawneer 'Dual Colour' option. This again can be adjusted in the 'Properties' dialogue box under the 'Materials and Finishes' heading. The downloaded file comes with an Autodesk Materials Library for a range of pre-defined Kawneer materials.



## Other Notes

You can add the Kawneer AA®720 Pivot Window System to your company template file, they will then be available without loading when starting a new project.

## Revisions

Version 1.0 - First Issue



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Other brochures available on request from Kawneer are:

- Architectural Aluminium Systems Finishes
- Entrance Doors and Framing Systems
- Curtain Wall Systems
- AA®130 Brise Soleil System  
Solar Shading for Reduced Solar Heat Gain
- Door and Window Sliding Solutions
- Residential Aluminium Glazing Systems
- Specialist Horizontal Sliding Window Solutions for your Healthcare Project
- Fire Resistant Systems
- The Architects Guide to Aluminium in Building
- Sustainability: Our Total Commitment



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