

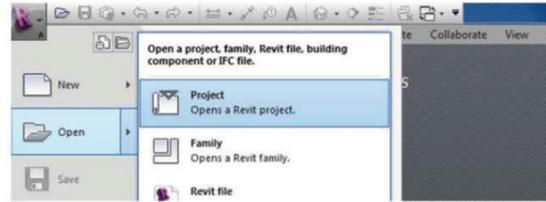
AA®100 / AA®110 Curtain Wall Systems  
Revit 2013 User Guide



## Loading the Kawneer Curtain Wall Systems into your project

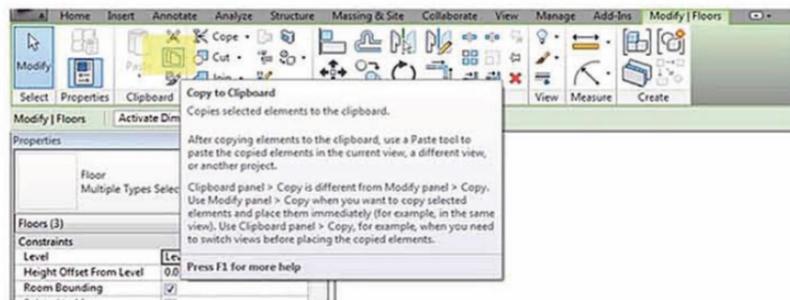
Curtain walls in Revit are classed as a system family. You can copy the curtain wall into your project using the following method;

1. Open your Revit project file (.rvt) and navigate to a floor plan view.



2. Now open the Kawneer Curtain Wall System project (.rvt) that you have downloaded from **bimstore**. The default view that opens will be a 'Product Overview' floor plan which illustrates all of the available variations of the Kawneer system.
3. Select the Curtain Wall System you require to use in your own project. Hold Ctrl to select multiple types.
4. Now copy the component to the clipboard by selecting the button as per the image below on the 'Modify' tab or by using the shortcut (Ctrl+C)

*Please note only the items selected i.e. mullions, transoms, glazing panels etc will be copied and available to paste into your project model. Please ensure you have selected the whole curtain wall system (indicated by a thick dashed line).*



5. Now go to your project (plan view) and paste the element(s) into your project using the paste button on the 'Modify' tab or by using the shortcut (Ctrl+P)
6. The curtain wall system(s) are now copied and embedded into your project, they 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, unless there are no instances placed and the curtain wall type is purged out.

## Loading the Kawneer Material Library into your project

The Kawneer Curtain Wall System components contain manufacturer specific materials for use with the components. This has been provided as a Material Library File (.adsklib) including 25 standard and 31 metallic Kawneer Permacover paint finishes. The material library file is included in all Kawneer downloads from **bimstore**. To load the material library please use the following method;

1. Open your Revit project (.rvt) and go to the 'Manage' tab on the main ribbon.
2. Click the 'Materials' button. 
3. Once the material editor appears, in the bottom left hand corner click the  dropdown and select 'Open Existing Library' navigating to where you have saved your download from **bimstore** and select the Kawneer Material Library.

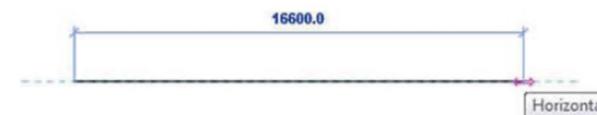
## Using the Kawneer Curtain Walling

This next section explains how to use the Kawneer curtain wall systems and the additional features that have been built into the components including various sizes and features the Kawneer systems offer.

All of the Kawneer curtain walling systems have been pre-configured to suit various styles available from Kawneer. For example, the AA100 Zone Drained System has 5 types of curtain walling system included in the download to cater for the various face cap options (square, bull nose, rounded, renovation and 'H' style).

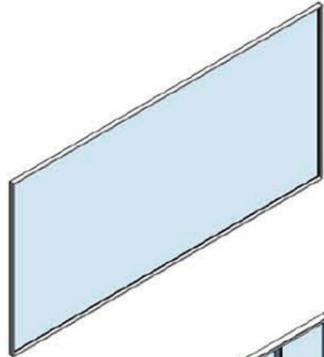
In your Revit project, on the main Revit ribbon under the 'Architecture' tab, select the 'Wall' button. The Wall types property box will now appear on the left-hand side of the screen. If you select the dropdown at the head of this, all of the available curtain wall types in the project will be displayed. Select the one you require.

You can now draw your curtain wall system in plan view. You can type the exact dimension to make this more accurate. Click to complete the system.

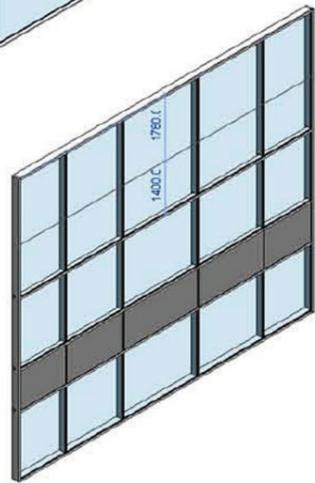


## Using the Kawneer Curtain Walling continued .....

You now have the curtain wall in place that can be adjusted very quickly to suit your design requirements. As you can see in the image below the curtain wall is currently a single panel with perimeter transoms and mullions.



If your curtain wall is not square or rectangular in shape you can simply amend it by selecting the curtain wall and clicking the 'Edit Profile' button that appears on the main Revit ribbon. You can now adjust the overall shape of the curtain wall using the drawing tools.



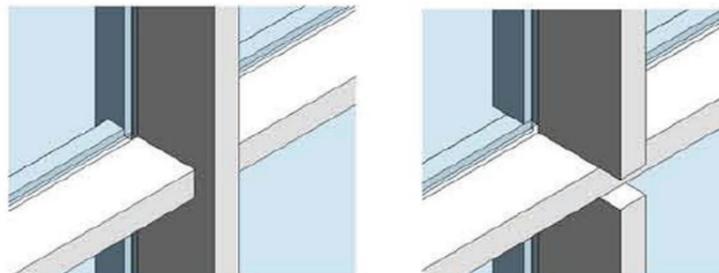
To add additional intermediate transoms and mullions, click the 'Architecture' tab under the build section click 'Curtain Grid'. Now when you hover over the curtain wall you will see a dotted line and dimensions appear. Simply click the button to insert a mullion or transom (depending on location). The correct mullions and transoms for the system have already been pre-configured for your curtain wall system.

If you wish to move the location of a mullion/transom hover over and tab through to select the centreline grid. With this selected dimensions, will appear that can be adjusted to reposition accurately.

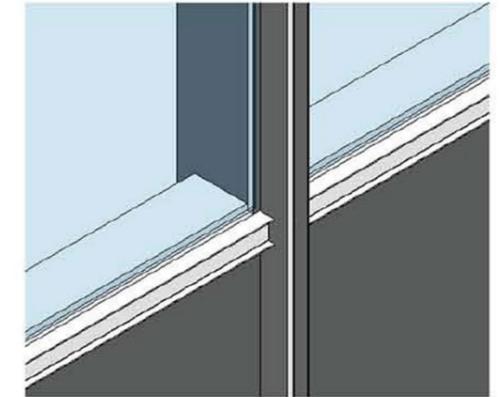
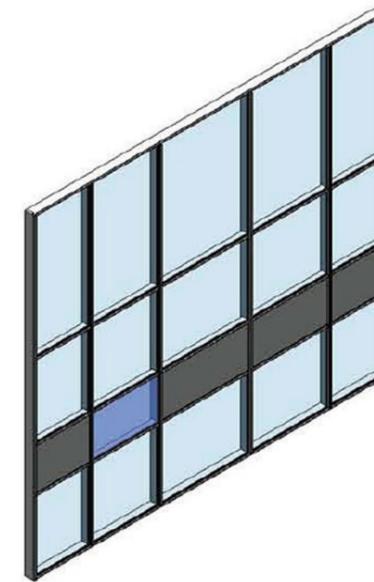
If your design requires you to remove particular sections of the mullion/transom this can also be easily done. Hover over the mullion/transom you wish to amend. Now tab through to select the centreline grid. With this highlighted select the 'Add/Remove Segments' button on the top main Revit ribbon. Click this then click the sections of the mullion/transom you wish to remove/add.



If you require your mullion/transom to join in the opposite direction, you can simply zoom in to the area and select the mullion. The  icon will be displayed, click this button to amend the join.



All curtain walls systems are provided with 2 types of curtain wall panel - glazed (28mm double glazed) and solid panels. To amend a panel type simply tab through to highlight the pane and select it. If the panel is pinned, unpin it and select the alternative panel type from the properties drop down as displayed in the image.

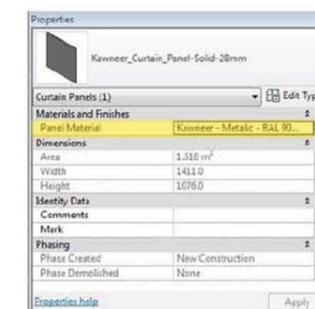
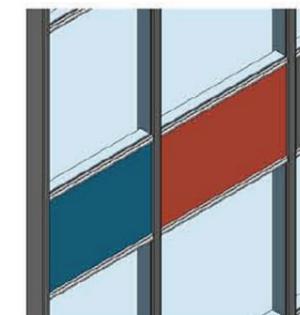


## Adjusting the Curtain Wall & Panel Material

The curtain wall framing, and curtain panel materials can be adjusted to select one of the materials from the Kawneer Material Library. To do this please follow the steps below;

### To amend the Curtain Wall Panel Material

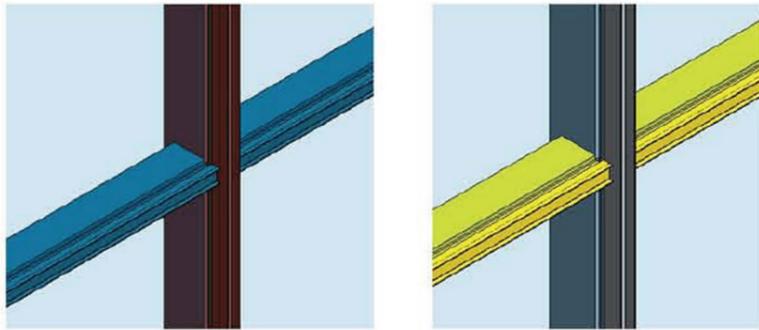
1. Select the curtain wall panel you wish to amend.
2. On the 'Properties' dialogue box (typically appears on the left-hand side of the screen). Scroll to the heading 'Materials and Finishes'.
3. Under the parameter 'Glass Material' or 'Panel Material' click to the right-hand side of the material to bring up the 'Material Browser'.
4. Select your new material and click 'Apply'.



## Adjusting the Curtain Wall & Panel Material continued .....

### To amend Curtain Wall Mullion/Transom Material

1. Select the curtain wall mullion or transom you wish to amend.
2. On the 'Properties' dialogue box (typically appears on the left hand side of the screen). Click the 'Edit Type' button. 
3. Once the dialogue box appears scroll to the heading 'Materials and Finishes'.
4. Under the parameter 'Material' click to the right-hand side of the material to bring up the 'Materials Browser'.
5. Select your new material and click 'Apply'.



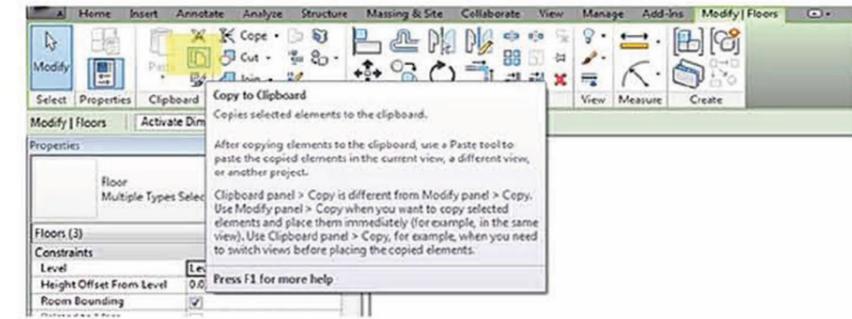
## Kawneer Dual Colour System

Kawneer offer a Dual Colour system that allows the colour of the face cap to be different to that of the back box. **bimstore** have produced a unique system to allow this method to be used outside of the boundaries of the Revit curtain wall system.

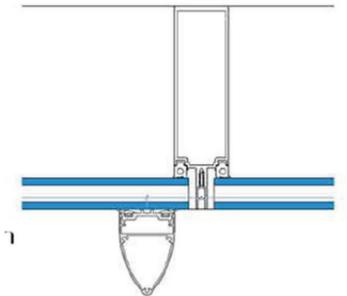
To use these components, download the 'Dual Colour' version of the system from **bimstore** and follow the below steps:

1. Select a curtain wall frame (either Zone or Mullion drained).
2. Now hold Ctrl and select your required face cap(s). Continue to hold Ctrl until you have selected all the required types.
3. Now copy the components to the clipboard by selecting the button on the 'Modify' tab or by using the shortcut (Ctrl+C).

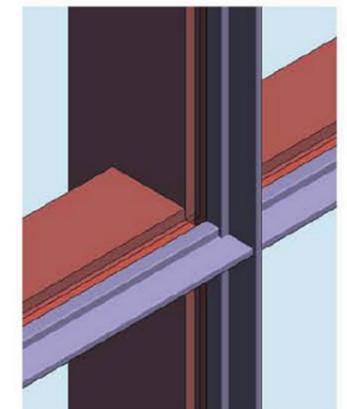
*Please note only items selected i.e. mullions, transoms, glazing panels, face caps etc will be copied and available to paste into your project BIM. Please ensure you have selected the whole curtain walls system.*



4. Now go to your project BIM (plan view) and paste the elements by using the 'Paste' button on the 'Modify' tab or by using the shortcut (Ctrl+P).
5. The curtain wall system(s) and face cap(s) are now copied and embedded into your project and can be selected from the wall types selector (curtain walls) and the component selector (face caps). You can delete the items you have pasted, these will remain in your project unless purged out.
6. Set up your curtain wall design first as required as previously mentioned in the user guide.
7. Now you will need to set up your face caps. These have been created as face based components to recognise the flat face of the mullions/transoms. In an appropriate 3D view on the main Revit ribbon, select 'Components' from under the 'Architecture' tab.
8. from the 'Properties' dialogue box choose the desired face cap type from the drop down.
9. Hover over the flat surface of the mullion/transom, the outline of the face cap will appear, click to drop the face cap into place. If you require the face cap to be rotated simply press the space bar before clicking to rotate it 90 degrees.



Note: a clever tip for positioning the face cap in the correct position is to position it in plan view and use the 'Place on Vertical Face' placement tool to ensure you are dropping the face cap in the exact position. The 'Align' tool can also be used and will allow you to lock the face cap to the mullion or transom.



10. Set up all your required face caps and lock them to the mullions/transoms. You can use the copy multiple tool to do this very quickly. Go to an elevation view to pull and stretch the face caps to their desired length.
11. You can now select the face caps or the mullions/transoms and change the materials as already described in the user guide.

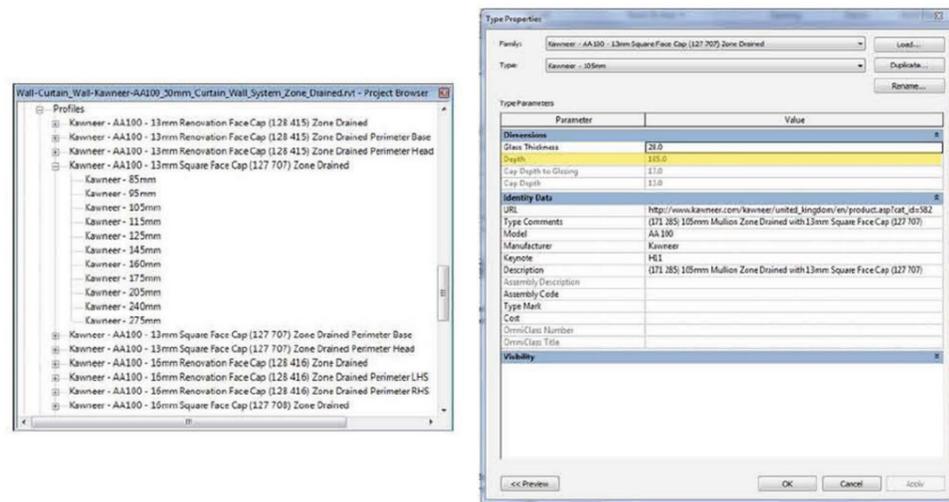
## Making a new mullion / profile size

The Kawneer curtain walls systems contain a range of standard mullion sizes. These have been set up in pre-configured types as the most popular products (size variations) offered by Kawneer. It is possible to make any size mullion/transom profile by using the following method, however to avoid miss-specification the file includes all the available profile and mullion sizes. Please consult Kawneer to ensure any new sizes you create can be manufactured.

Creating a new profile / mullion size is a two-step process - Creating the required profile and then creating the required mullion.

### Profile

1. In the project browser navigate to Families > Profiles
2. Select the type of mullion profile you require and expand to reveal all the pre-configured standard sizes available from Kawneer.
3. To create your own profile size, right click any of the types, select 'duplicate' and rename the profiles. (Please contact Kawneer to advise on bespoke sizes).

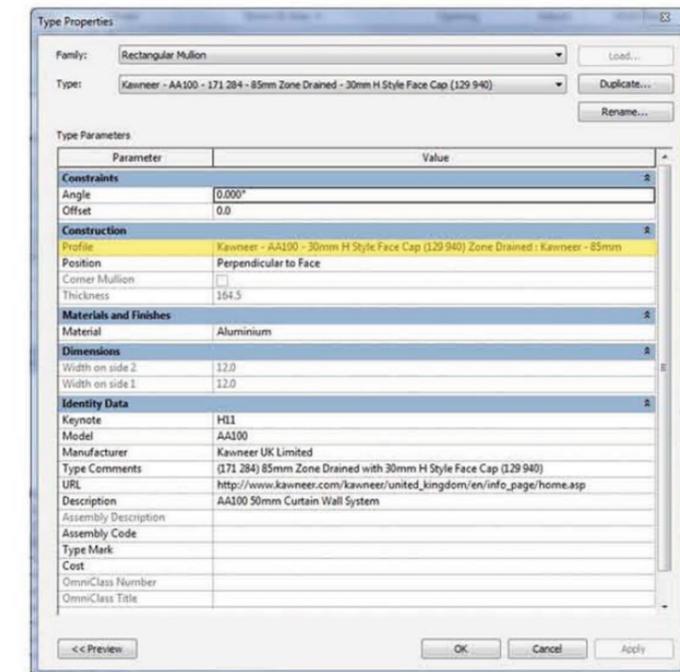


4. Change the 'Depth' parameter to the newly required back box dimension and click 'OK'.

Please note bimstore and Kawneer have created a number of the commonly available sizes of profile for you and advise that these types be used in your projects to avoid miss specification. Bespoke size may be available, please contact Kawneer for guidance.

### Mullion

1. In the project browser navigate to Families > Curtain Wall Mullions > Rectangular Mullion.
2. Expand the types, and browse to a corresponding mullion type for the new size you require. You will need to consider 2 main points here;
  - The drainage type (Zone or Mullion Drained)
  - The face cap type (square, bullnose, 'H' style, renovation, rounded)
3. Right click and select 'duplicate'; now rename the mullion to your new size.
4. Double click on the new mullion type to open the 'Type Properties' box.
5. Click on 'Profile' under the 'Construction' heading, from the drop down select the new profile (you previously created) and click 'OK'.



6. The new mullion type can now be selected to be used in your curtain wall system.

### Other Notes

You can add the Kawneer curtain wall components to your company template file, they will then be available without loading when starting a new project.

### Revisions

Version 1.0 - First Issue

Version 2.0 - Rebrand / Quality Update



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Other brochures available on request from Kawneer are:

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



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