

STEP 1:

Determine if desired system can be created using the pre-applied render ready materials (see Image 1). If so, simply select a wall type of the correct panel orientation and thickness. This is likely applicable where there is no variation in skin profile or finish colour across the length of the entire panel system. If necessary move or align the surface pattern in Hidden Line visual style to position the panel joins as desired.

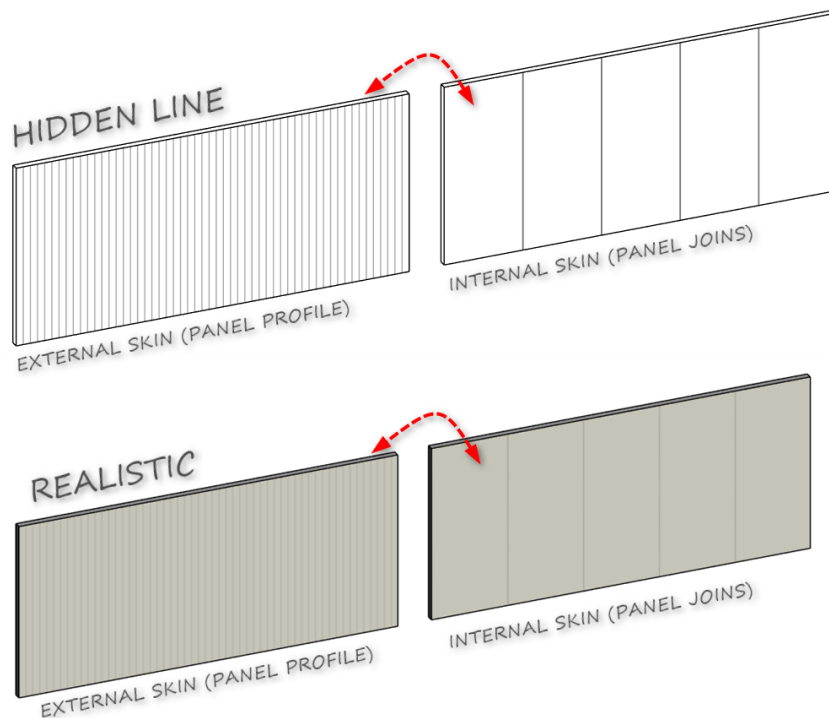


Image 1

STEP 2:

If desired system cannot be created by using materials as shown in Step 1, place and select the wall in a Revit project (1), access the Create Parts tool (2), then select the Divide Parts option (3). This approach would be most applicable in situations where there is some level of variation in the profile or finish colour of individual panels across the length of the entire system.

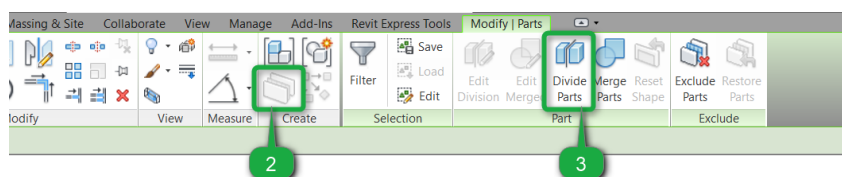


Image 2

STEP 3:

Ensure the correct Division Profile has been selected in the Properties dialogue (see Image 3). By default, this is set to 'None', which would likely be acceptable for most scenarios. If, however, a higher level of detail is required at each panel join, select the custom created MetecnoInspire Division Profile of the same width as the wall to be divided.

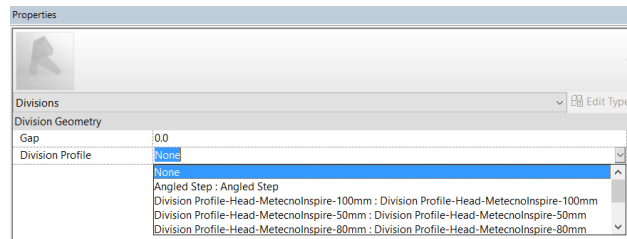


Image 3

STEP 4:

In either a Plan, Section or 3D View, begin to draw the lines at desired panel joins. As a vertical system has been used for this example and knowing that the MetecnoInspire panels have a width of 1100mm, draw lines at 1100mm spacings in Plan View, being sure that each line encounters the dotted boundary lines shown offset from all faces of the wall. Once happy with placement of divisions, click on the green tick shown in the Ribbon to Finish Edit Mode.

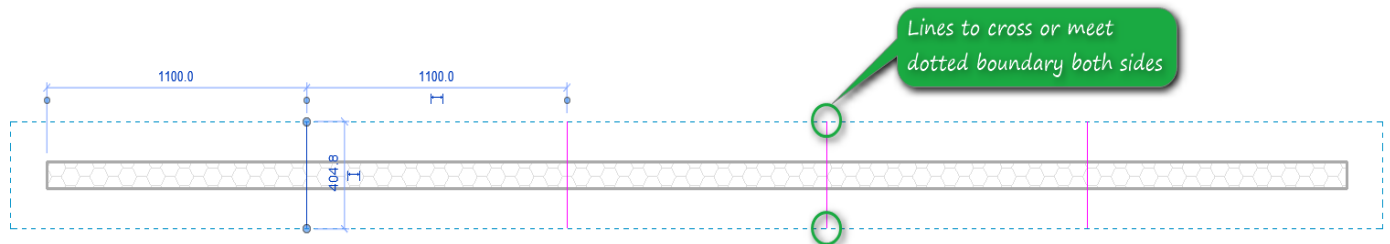


Image 4

STEP 5:

Ensure that 'Show Parts' has been selected within the View Properties to activated visibility of created parts. The Divide Parts process has provided the ability to select and edit the material (profile and/or surface colour) of any individual Part, or in this case panel skin (see image 5).

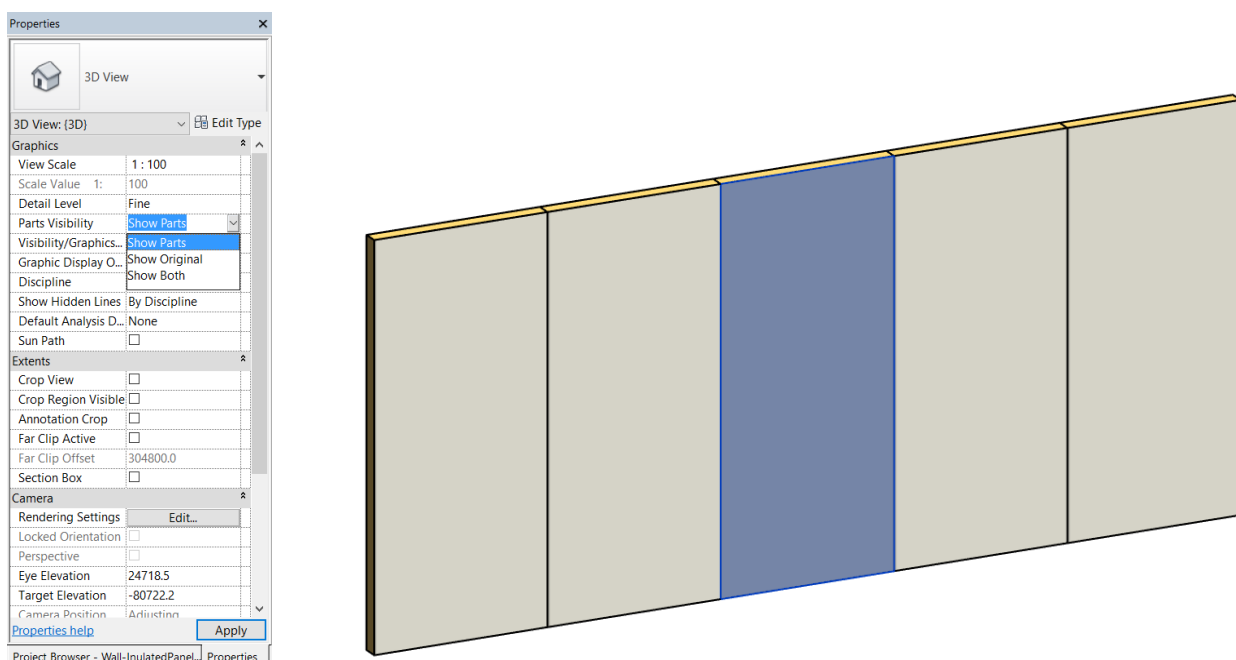


Image 5

STEP 6:

If horizontal joins are required, multi-select all parts to be divided and again access Divide Parts>Edit Sketch, being sure to set the Work Plane to be the end face of the wall (see Image 6).

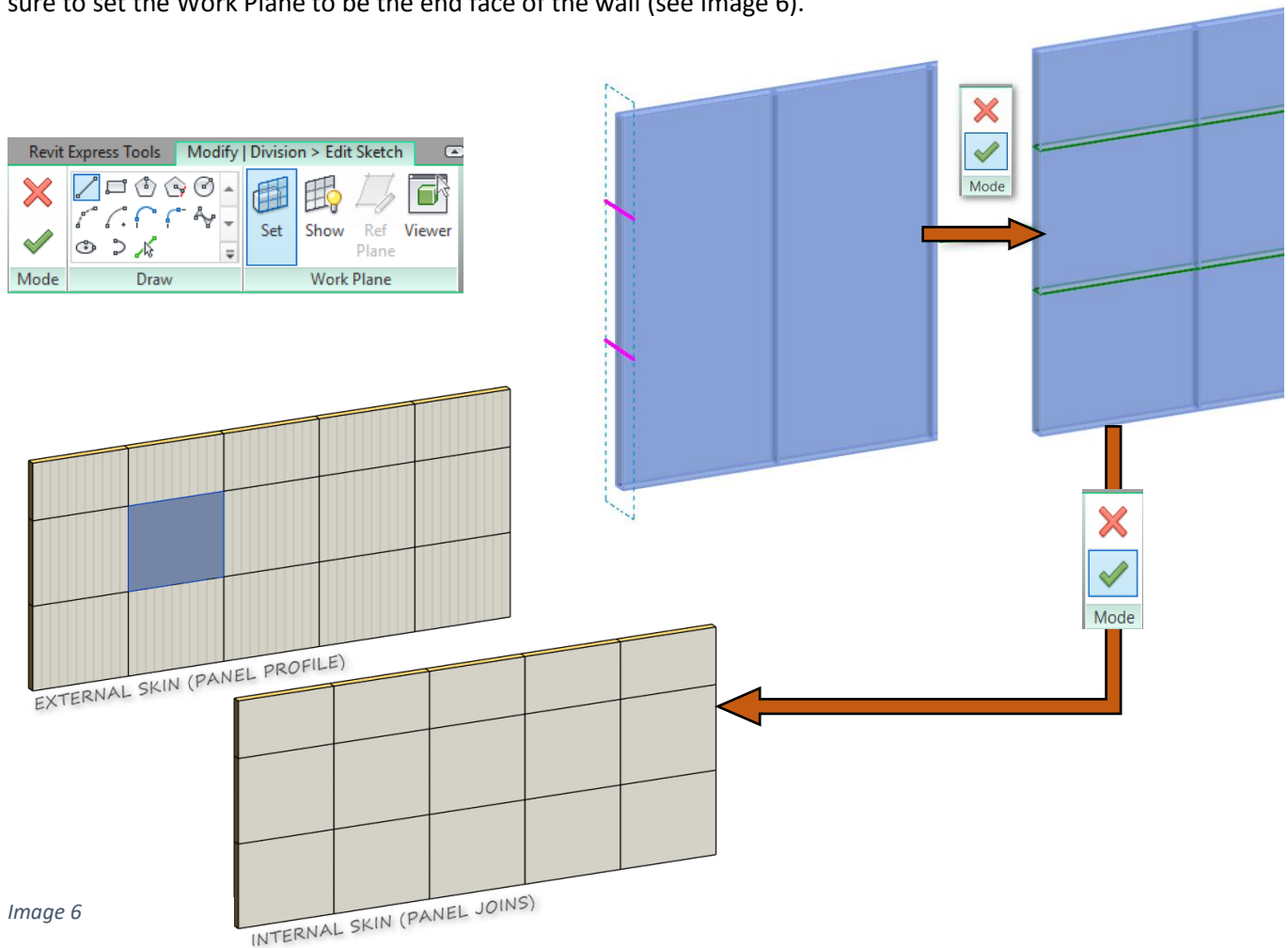


Image 6

STEP 7:

Determine if there is any requirement for variation in the external skin profile or surface colours across the length of the divided wall. If so, holding down the CTRL key, multi-select the panel skins on the external face of the wall that are to be modified. Once selected, untick the 'Material By Original' option in the Properties dialogue in order to gain control over the Material all individual selected parts (see Image 7).

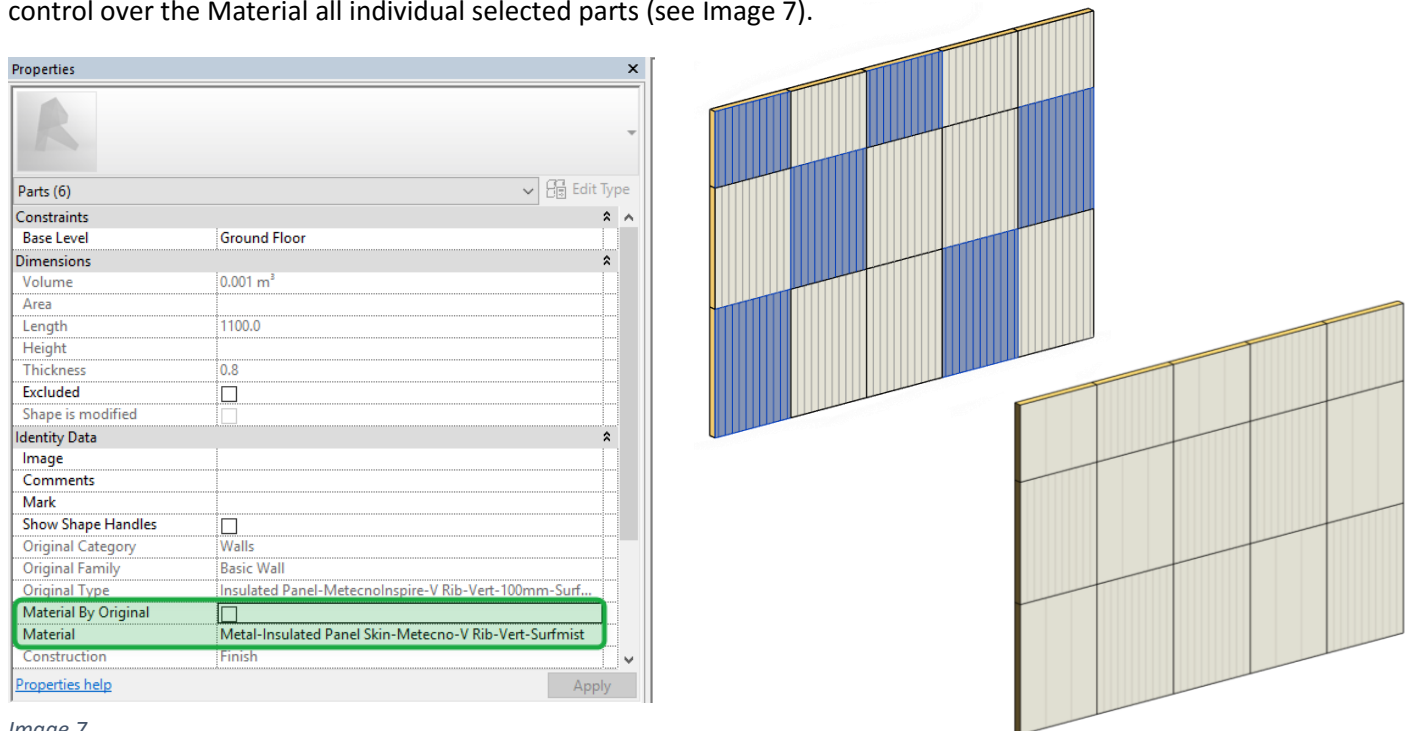


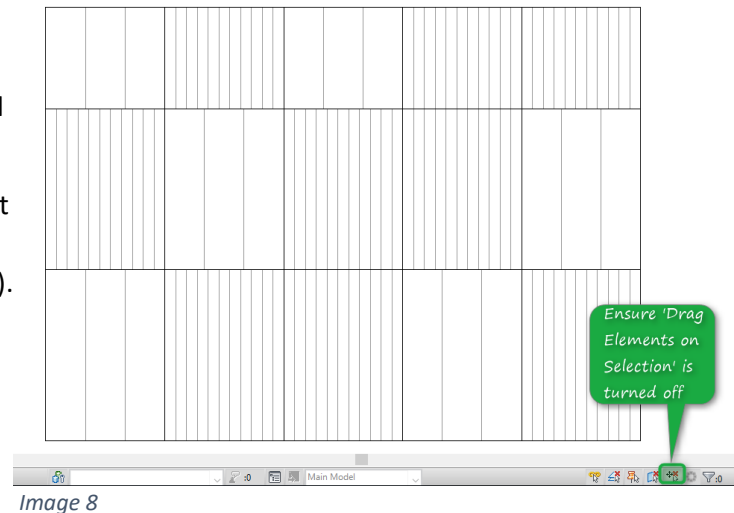
Image 7

STEP 8:

Once the desired configuration and finish conditions have been satisfied, use the Align tool in an Elevation view to ensure the surface patterns on both the internal and external wall faces line up with the newly created panel joins.

(Dividing a basic wall can cause the applied materials to offset as they lose their reference point during the division process. This should therefore be one of the final steps in this process).

To schedule the created panels, turn off 'Drag Elements on Selection' (see Image 8) to make selection process easier for panels not located along the edges of the wall



STEP 9:

If visual tagging of the panels is desired, load in a 'Parts Tag' from the default Revit location. Highlight and drag over each individual panel, ensuring all 3 layers have been selected. Apply the same Mark for all 3 parts (layers) of each divided panel (see Image 9).

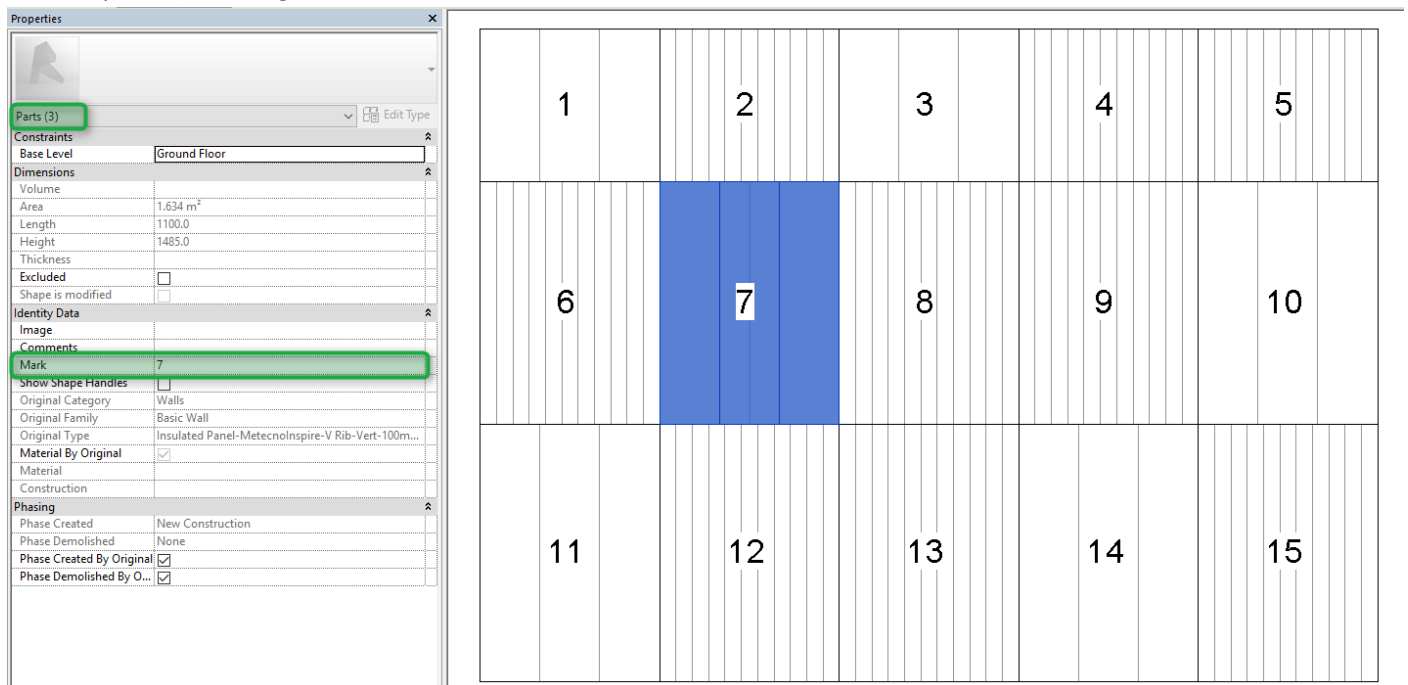


Image 9

STEP 10:

From the View tab in Revit's ribbon, create a new Schedule of the category – Part. Select appropriate parameters to schedule, ensuring Mark is selected. Edit Sorting/Grouping settings for Part Schedule to sort all parts by Mark to get a grouped breakdown of all 3 layers of each created panel (see Image 10).

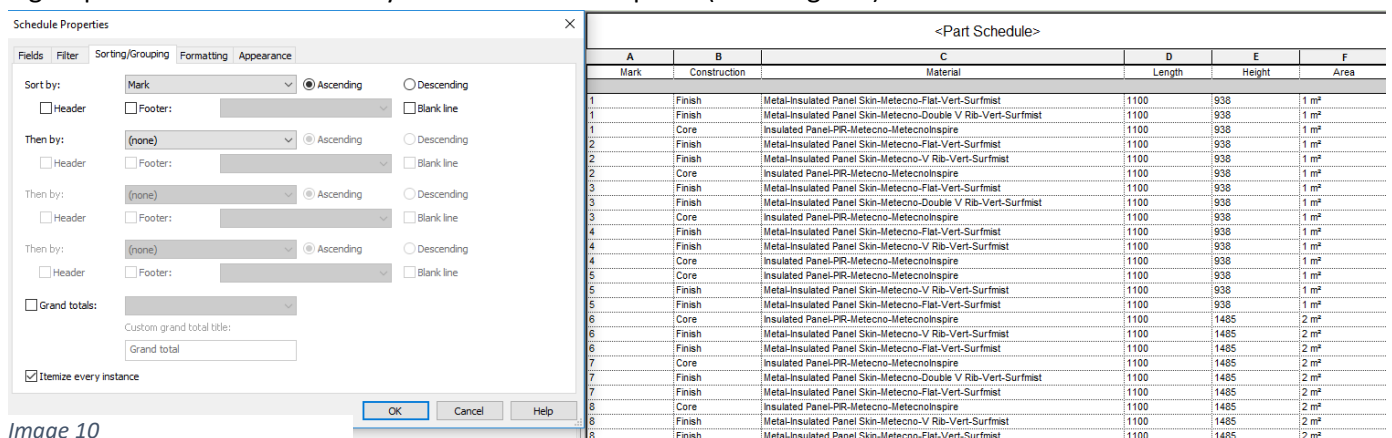


Image 10