

# 2019-01-09 - K4 Dynamic Kase Tool

**Nick Place**

Last modified just a moment ago

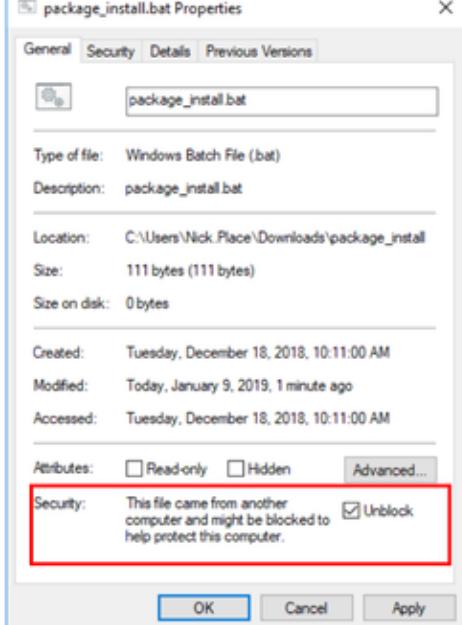
## PROBLEM:

You need to explore alternate cladding design schemes, but manually pulling panels from the parts library through the Revit environment can be cumbersome and time-consuming.

## SOLUTION:

We are going to use Dynamo script to automate the process and save you time.

## WHAT DO YOU NEED?

Dynamo Version	Dynamo 1.3.2
Packages Needed	<p>Download archive <a href="#">here</a> to your downloads folder and "Extract All" to it's own folder.</p> <p>Rightclick on package_install.bat and go to "properties". From there, check the "unblock" checkbox and hit "ok".</p> 

Run package\_install.bat by double clicking to install all packages automatically.

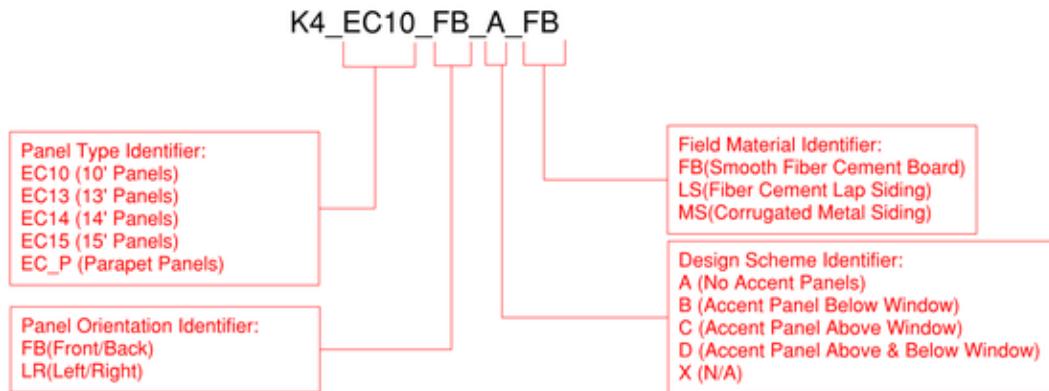
```
C:\Windows\system32\cmd.exe
C:\Users\Nick.Place\Downloads\package_install>xcopy /s "C:\Users\Nick.Place\Downloads\package_install\packages" "C:\Users\Nick.Place\AppData\Roaming\Dynamo\Revit\1.3\packages"
Overwrite C:\Users\Nick.Place\AppData\Roaming\Dynamo\Revit\1.3\packages\archi-lab.net\pkg.json (Yes/No/All)?
```

If you get a "sharing violation" the files are currently open. Try closing Revit and retry. If the sharing violation persists, please restart and run batch file again before opening Revit.

```
C:\Windows\system32\cmd.exe
C:\Users\Nick.Place\Downloads\package_install>xcopy /s "C:\Users\Nick.Place\Downloads\package_install\packages" "C:\Users\Nick.Place\AppData\Roaming\Dynamo\Revit\1.3\packages"
Overwrite C:\Users\Nick.Place\AppData\Roaming\Dynamo\Revit\1.3\packages\archi-lab.net\pkg.json (Yes/No/All)? a
C:\Users\Nick.Place\Downloads\package_install\packages\archi-lab.net\bin\archilab.customization.dll
Sharing violation
C:\Users\Nick.Place\Downloads\package_install>PAUSE
Press any key to continue . . .
```

DYN Files, or Scripts	Download this file to a folder. <a href="#">K4_Dynamic_Kase_Tool_v2.0.dyn</a>
Folder	A folder where you want to store your Dynamo scripts.

## K4 PANEL NAMING CONVENTIONS:



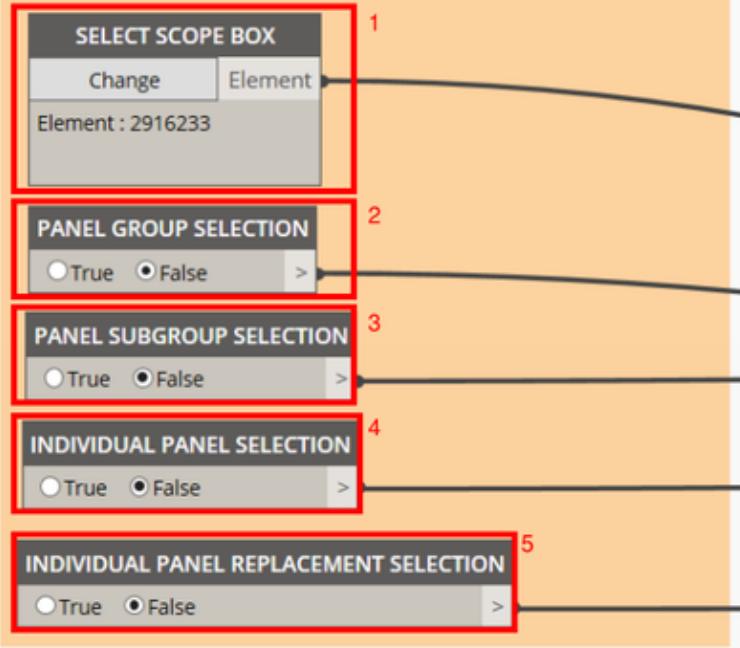
## STEP BY STEP:

# K4

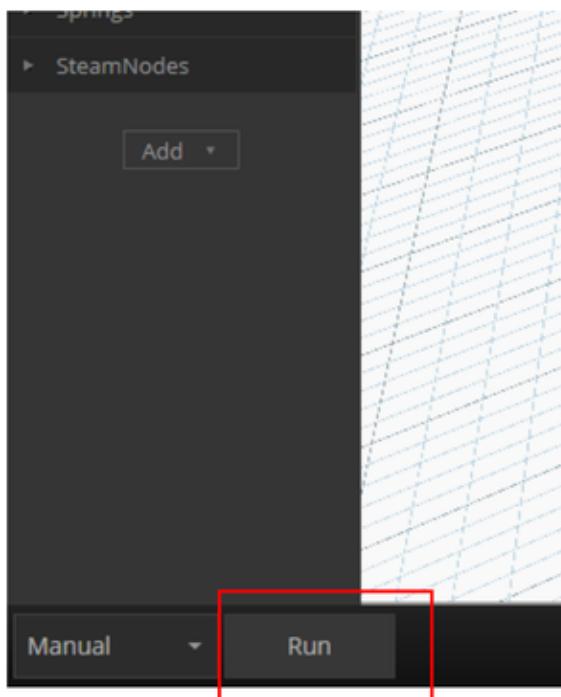
# DYNAMIC

# KASE FILE

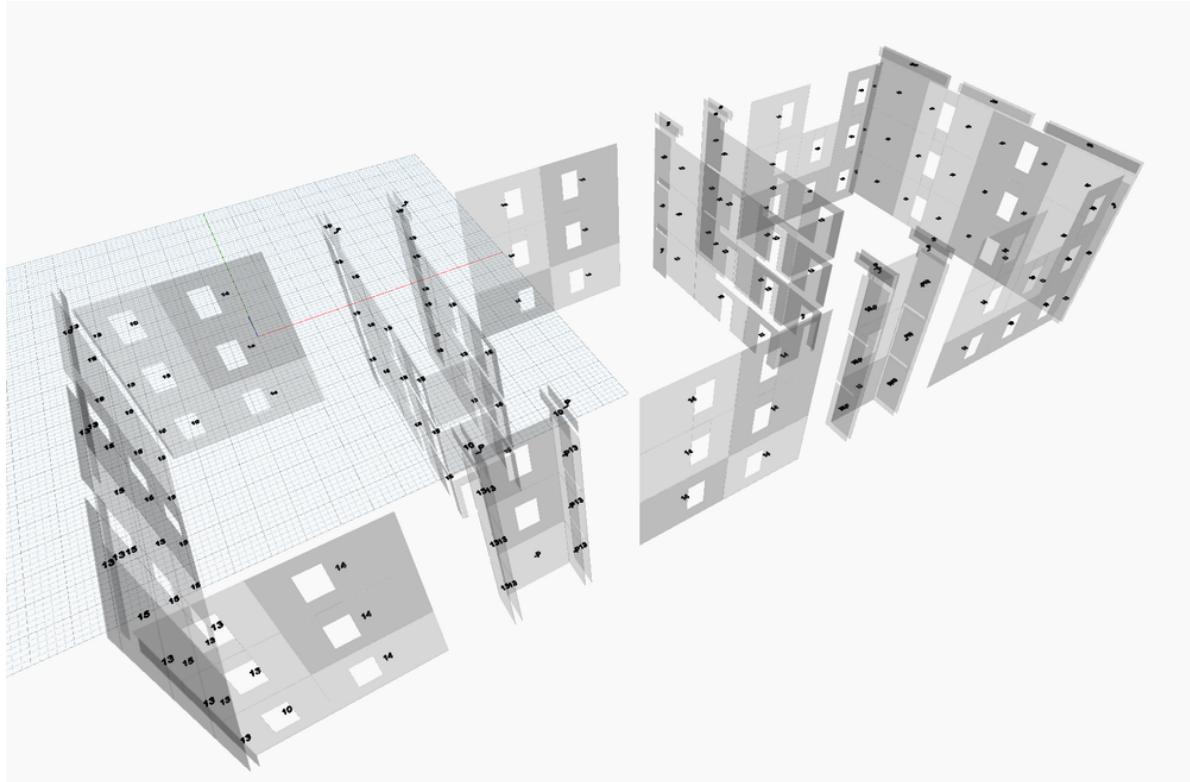
STEP 1: GO TO VIEW "Cladding\_Design"  
STEP 2: SET SCOPE BOX AROUND BUILDING.  
STEP 3: TOGGLE "PANEL GROUP SELECTION" TO TRUE, HIT "RUN" & SET INPUT IN POP-UP WINDOW  
STEP 4: TOGGLE "PANEL SUBGROUP SELECTION" TO TRUE, HIT "RUN" & SET INPUT IN POP-UP WINDOW  
STEP 5: TOGGLE "INDIVIDUAL PANEL SELECTION" TO TRUE, HIT "RUN" & SET INPUT IN POP-UP WINDOW  
STEP 6: TOGGLE "INDIVIDUAL PANEL REPLACEMENT SELECTION" TO TRUE, HIT "RUN" & SET INPUT IN POP-UP WINDOW  
STEP 7: AFTER COMPLETION, TOGGLE ALL TO FALSE AND HIT "RUN" TO RESET THE PROCESS



- Hit the "Run" button in the lower left-hand corner to initiate the script.



- This will generate a display of all cladding panels currently on the building in the Dynamo environment, labeled with length or "type" identifiers for the panel groups (10, 14, \_P, etc.). Press Ctrl + B to toggle between the graph view and 3D preview environment. Orbit around the preview model with RMB(right mouse button) to determine which panel group you want to edit. Toggle back to the graph when you've made a decision.

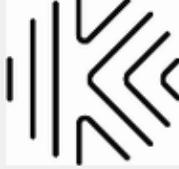


- To toggle "Panel Group Selection" box (2) to True and press the "Run" button and a popup window will

Data-Shapes | Multi Input UI ++

## KATERRA K4 DYNAMIC CLADDING TOOL

WHICH PANEL GROUP DO YOU WANT TO CHANGE?

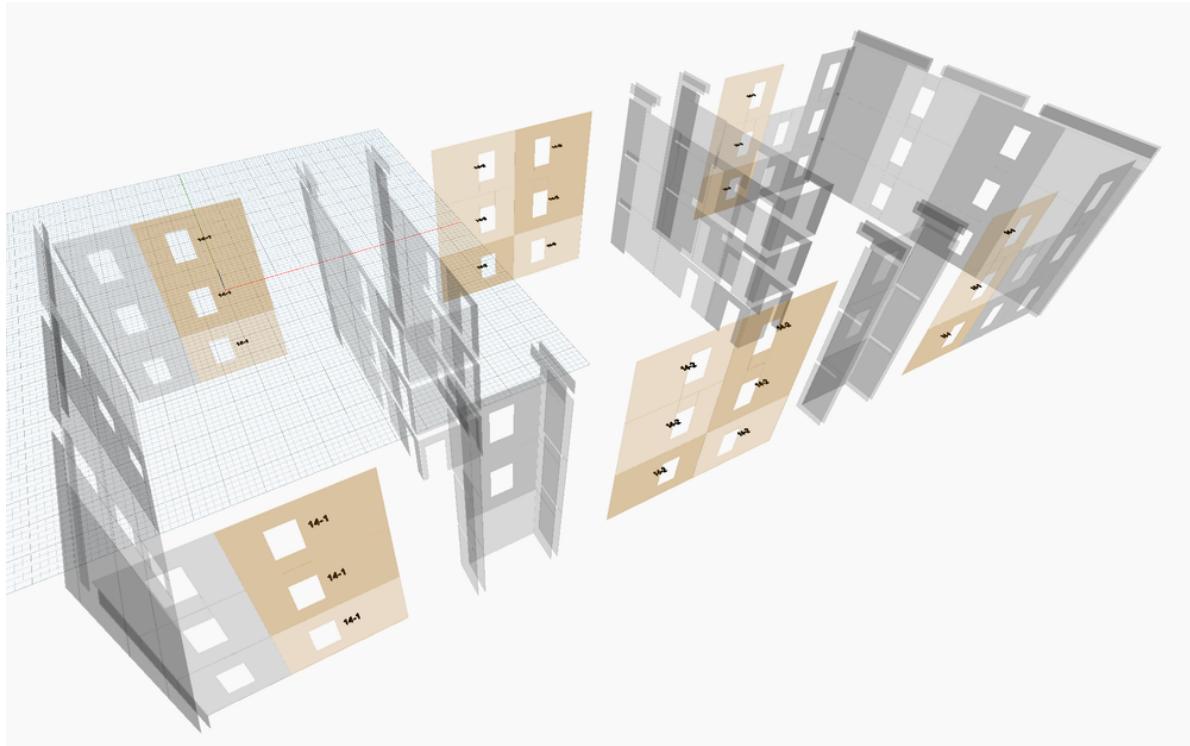


P  
10  
13  
14  
15

ABORT CONTINUE

The preview will update by highlighting the panel selection in orange with labels for all subgroups within the panel group.

Orbit the 3D preview again to determine which panel subgroup you would like to edit.



- Toggle "Panel Subgroup Selection" box (3) to True and then press the "Run" button and a popup window will appear with a drop-down for selecting which panel subgroup you'd like to edit. Make your selection and hit "continue".

Data-Shapes | Multi Input UI ++

## KATERRA K4 DYNAMIC CLADDING TOOL

WHICH PANEL SUBGROUP?

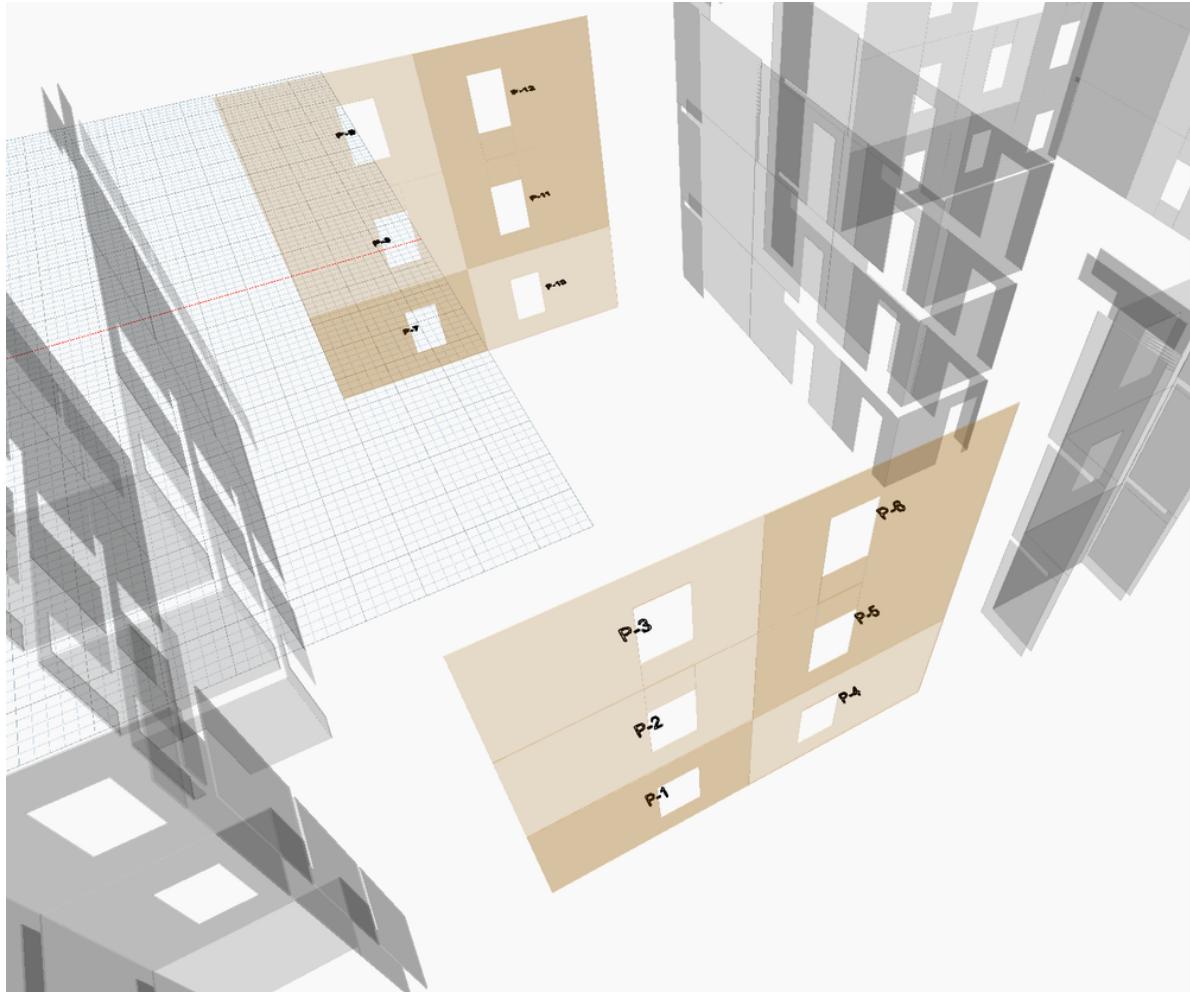


K4\_EC14-1  
K4\_EC14-2

ABORT CONTINUE

The preview will update by highlighting all of the panels within the selected subgroup and then numbering them in a series.

Orbit the 3D preview again to determine which individual panels you would like to edit.



- Toggle "Individual Panel Selection" box (4) to True and then press the "Run" button and a popup window will appear with a list for selecting which panel subgroup you'd like to edit. Here you can select as many panels from the list as you would like to change. Make your selection and hit "continue".

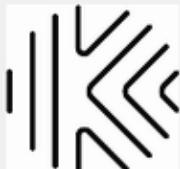
Data-Shapes | Multi Input UI ++

## KATERRA K4 DYNAMIC CLADDING TOOL

WHICH PANELS DO YOU WANT TO CHANGE?

- P-1
- P-2
- P-3
- P-4
- P-5
- P-6
- P-7
- P-8
- P-9
- P-10
- P-11

Select all    Select none

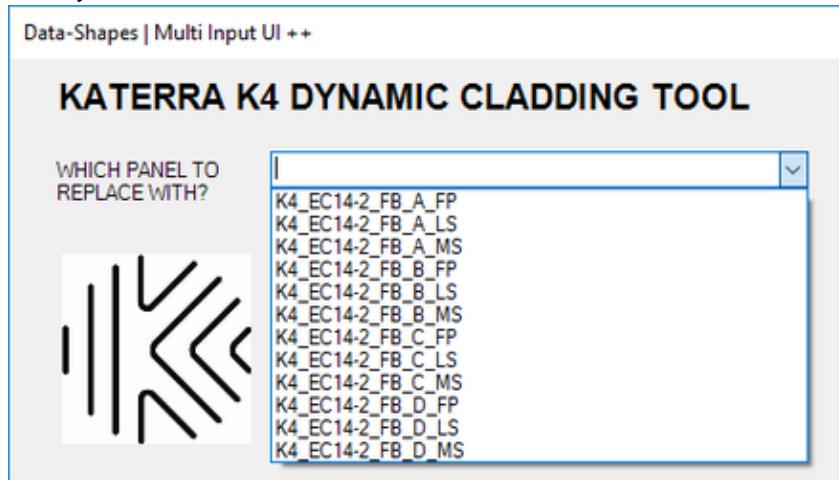


ABORT   CONTINUE

The preview will update by highlighting all of the panels you selected and colors them a solid orange.



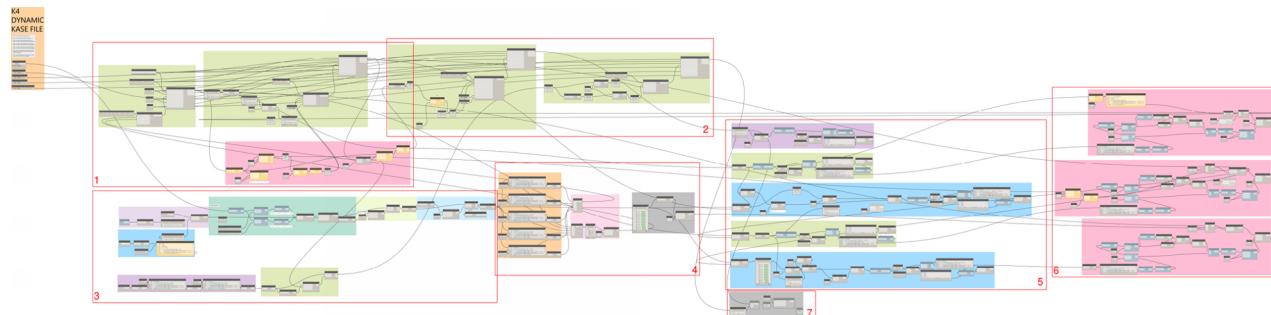
- Toggle "Individual Panel Replacement Selection" box (5) to True and then press the "Run" button and a popup window will appear with a drop-down for selecting your replacement panel. Make your selection and hit "continue".



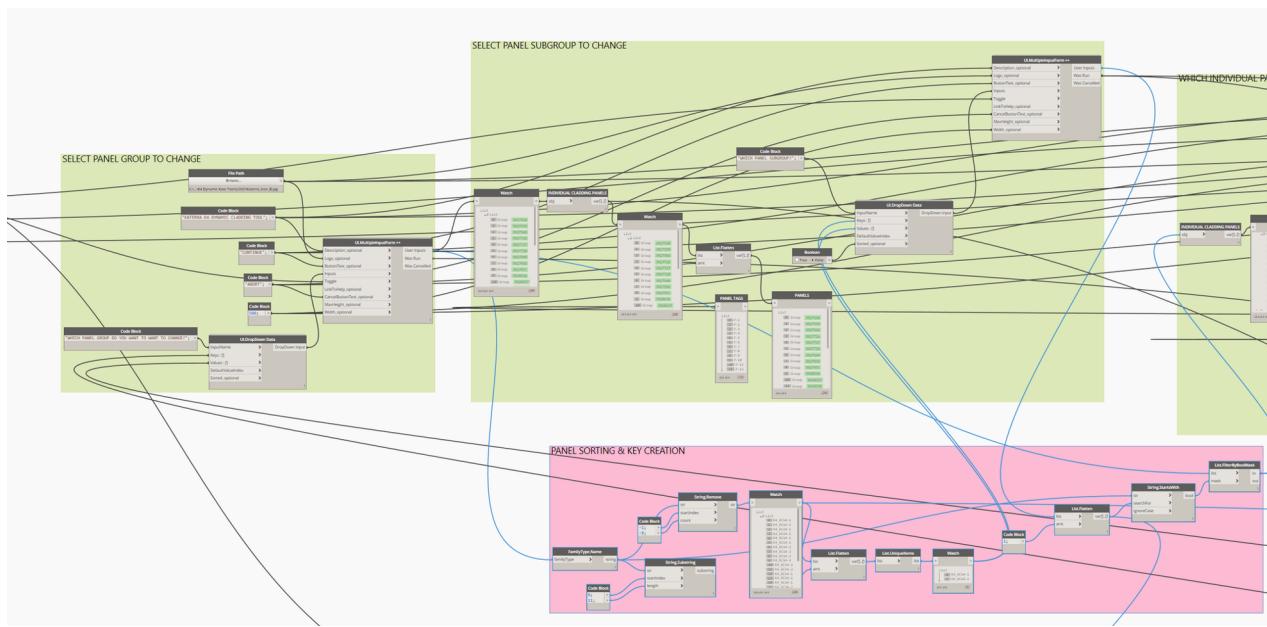
This will swap out the current cladding panels with your selection in the Revit model itself. **THIS MAY TAKE A LOT OF TIME, DEPENDING ON HOW MANY PANELS YOU'RE EDITING.**

- To make changes to other panel groups, toggle all previously toggled boxes to False, and press the "Run" button to reset the script.

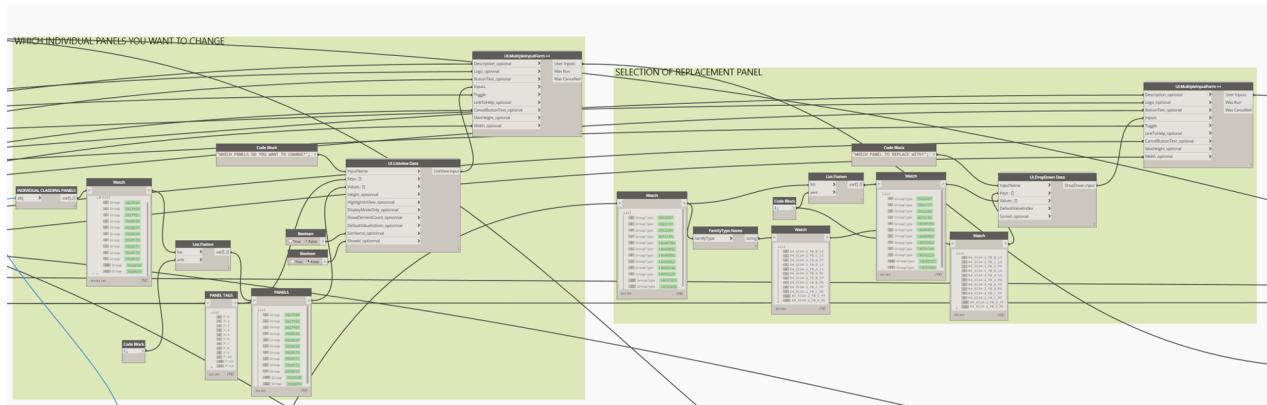
## WHATS INSIDE THE SCRIPT ?



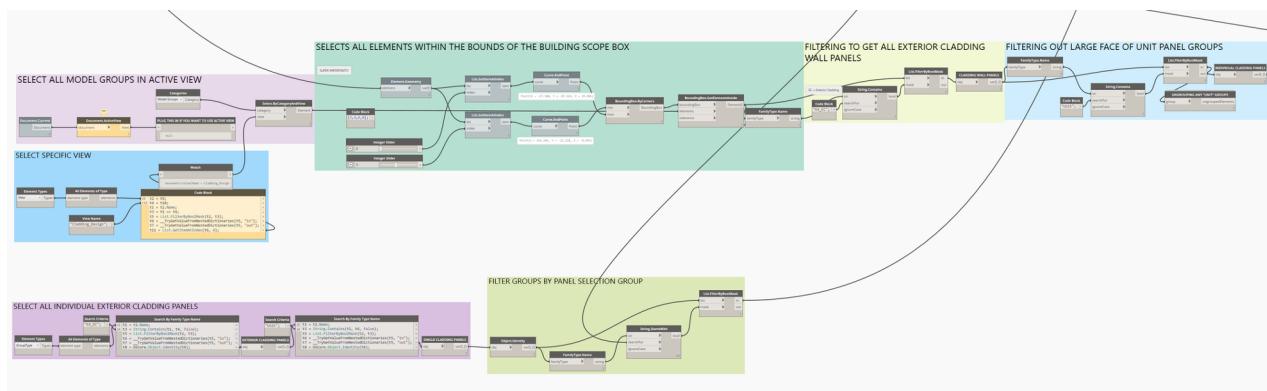
(1)



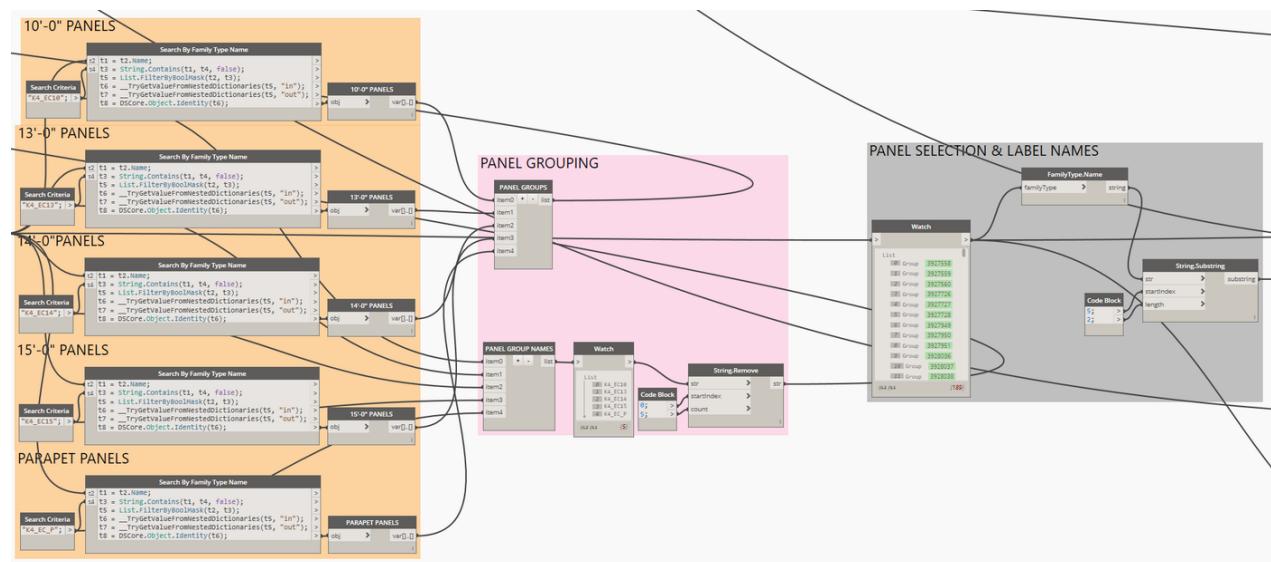
(2)



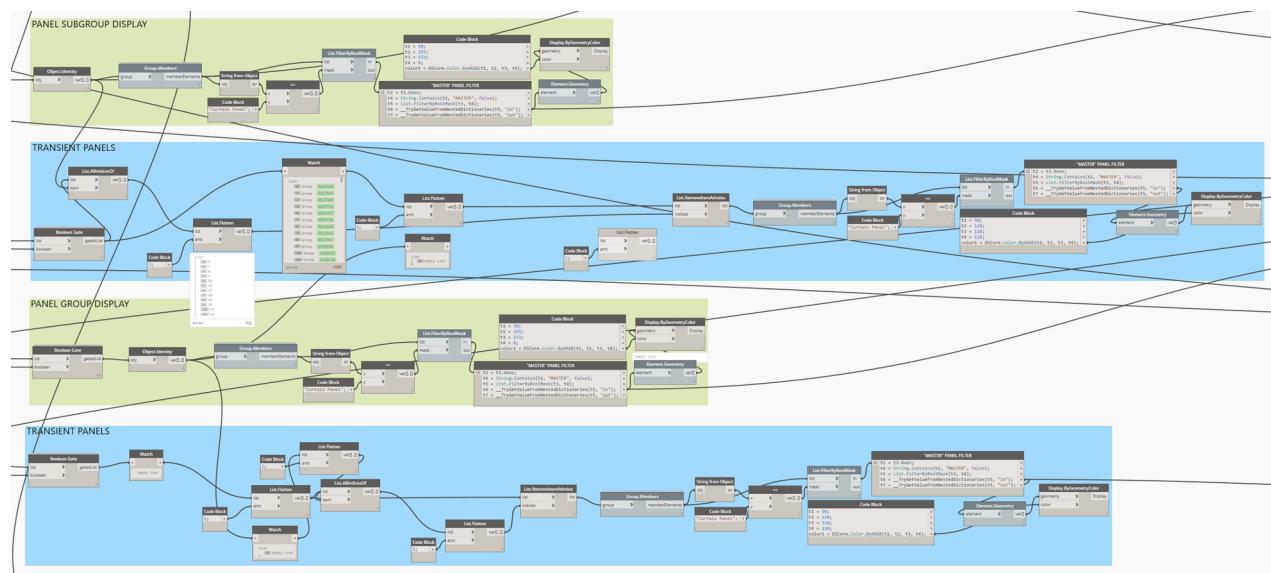
(3)



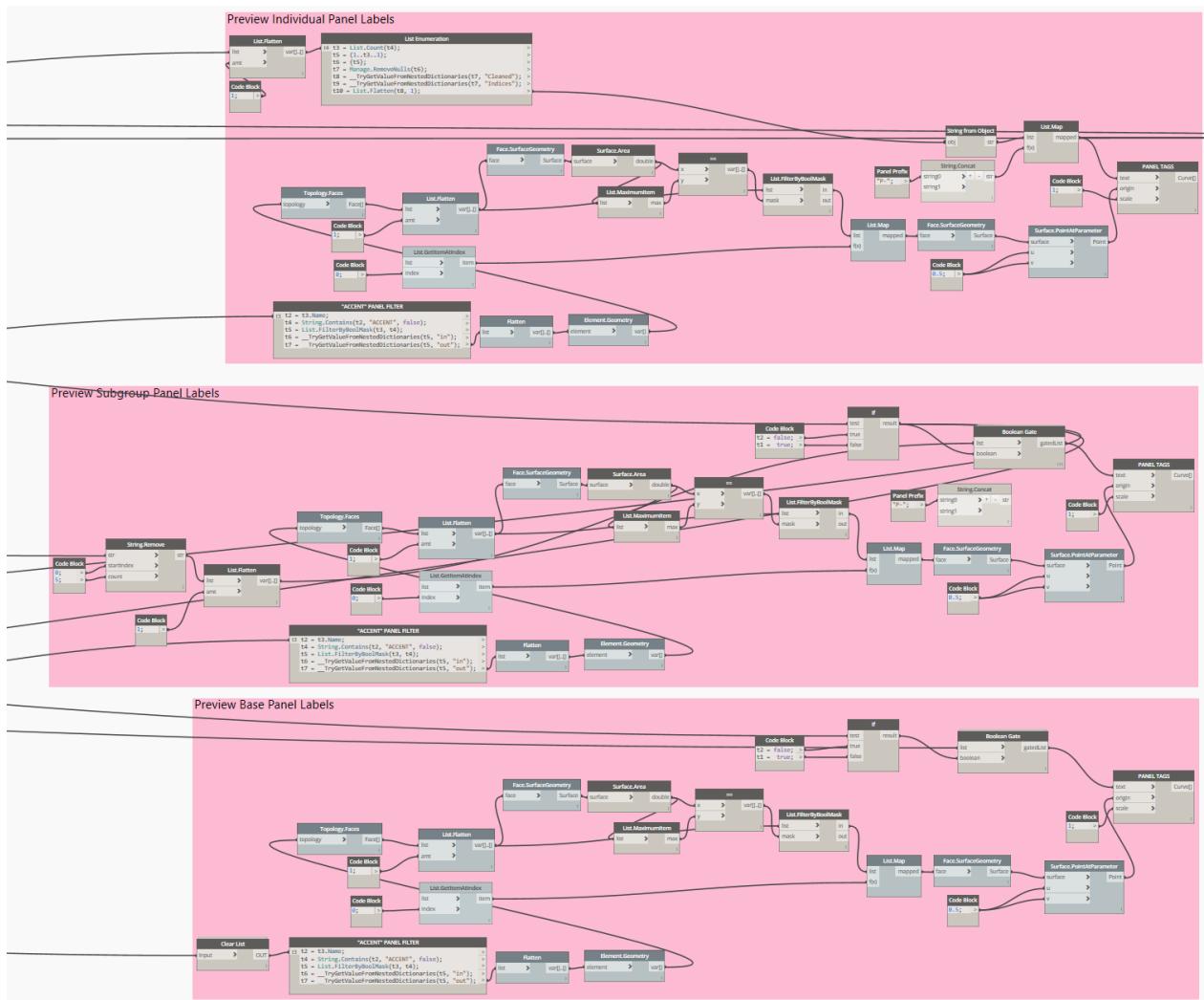
(4)



(5)



(6)



(7)

