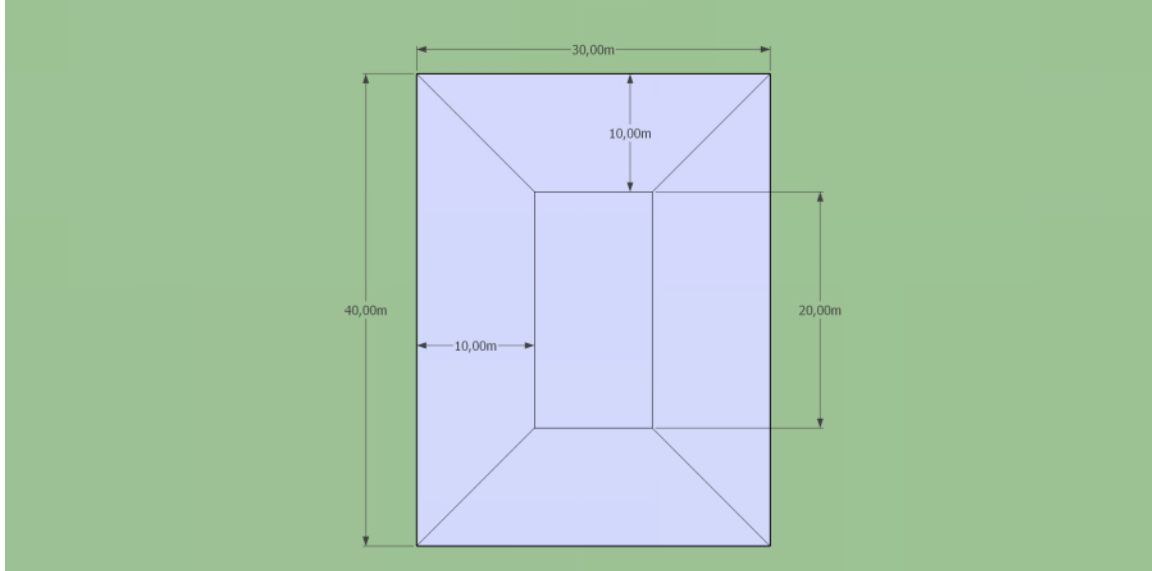


What do we do first:

We just draw the diagram by creating a 40×30 rectangle
Then create another rectangle inside it (with the offset of 10 m)

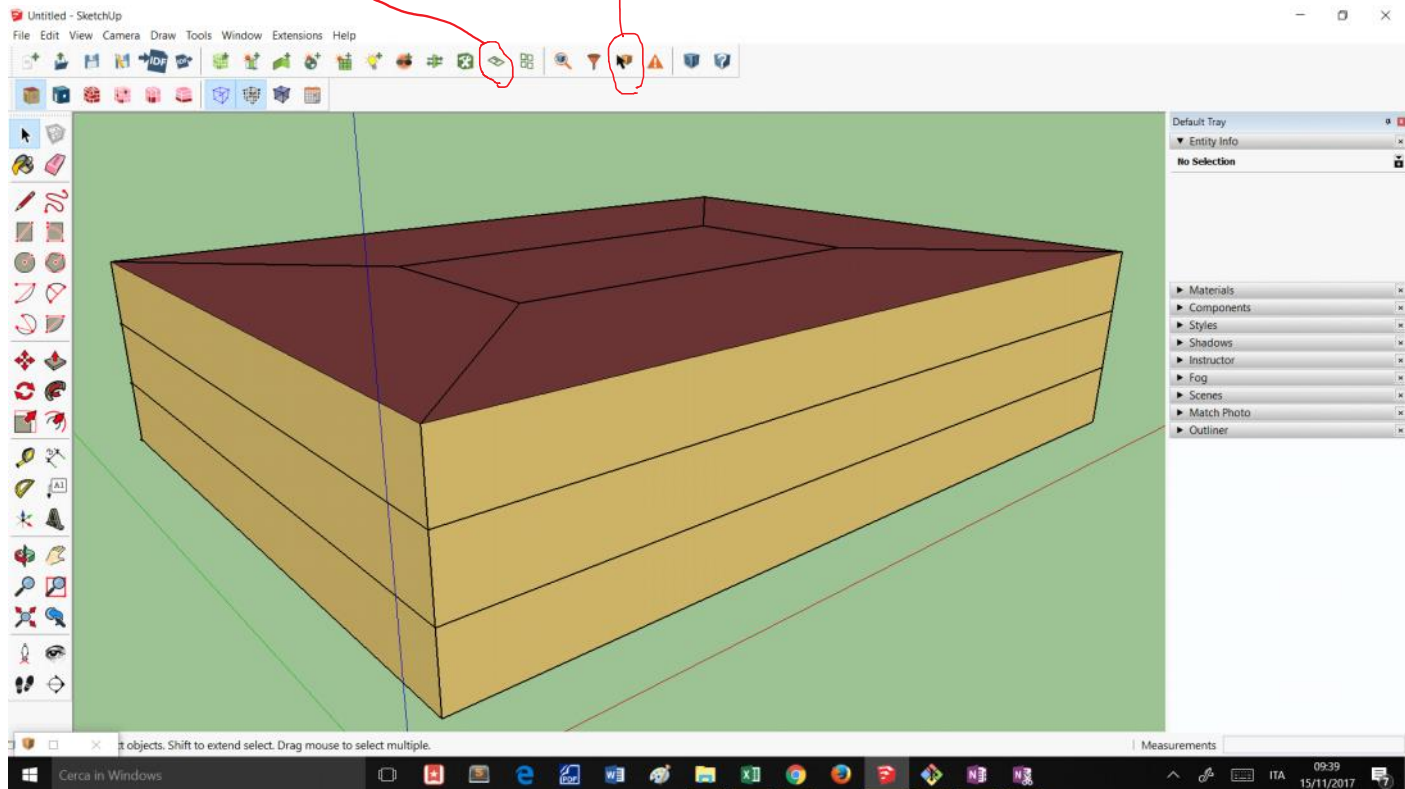
Finally connect the edges with 4 lines !!



Once you made the diagram, you should choose it and then click on: "create spaces from diagram"

Create spaces
from diagram

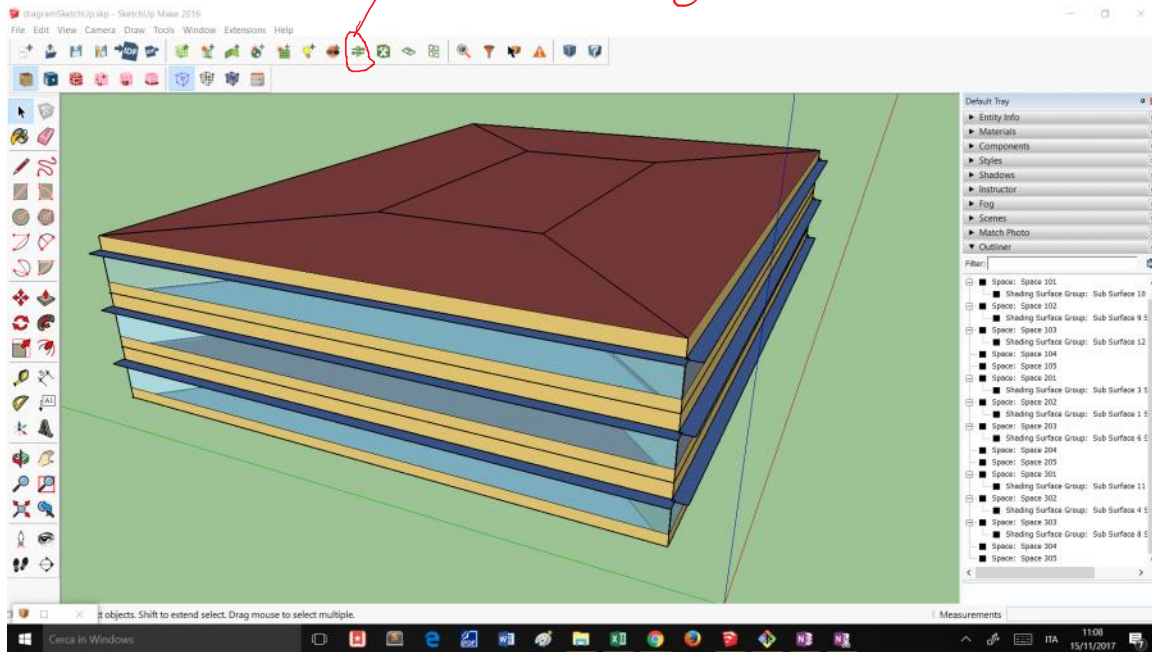
Info tool



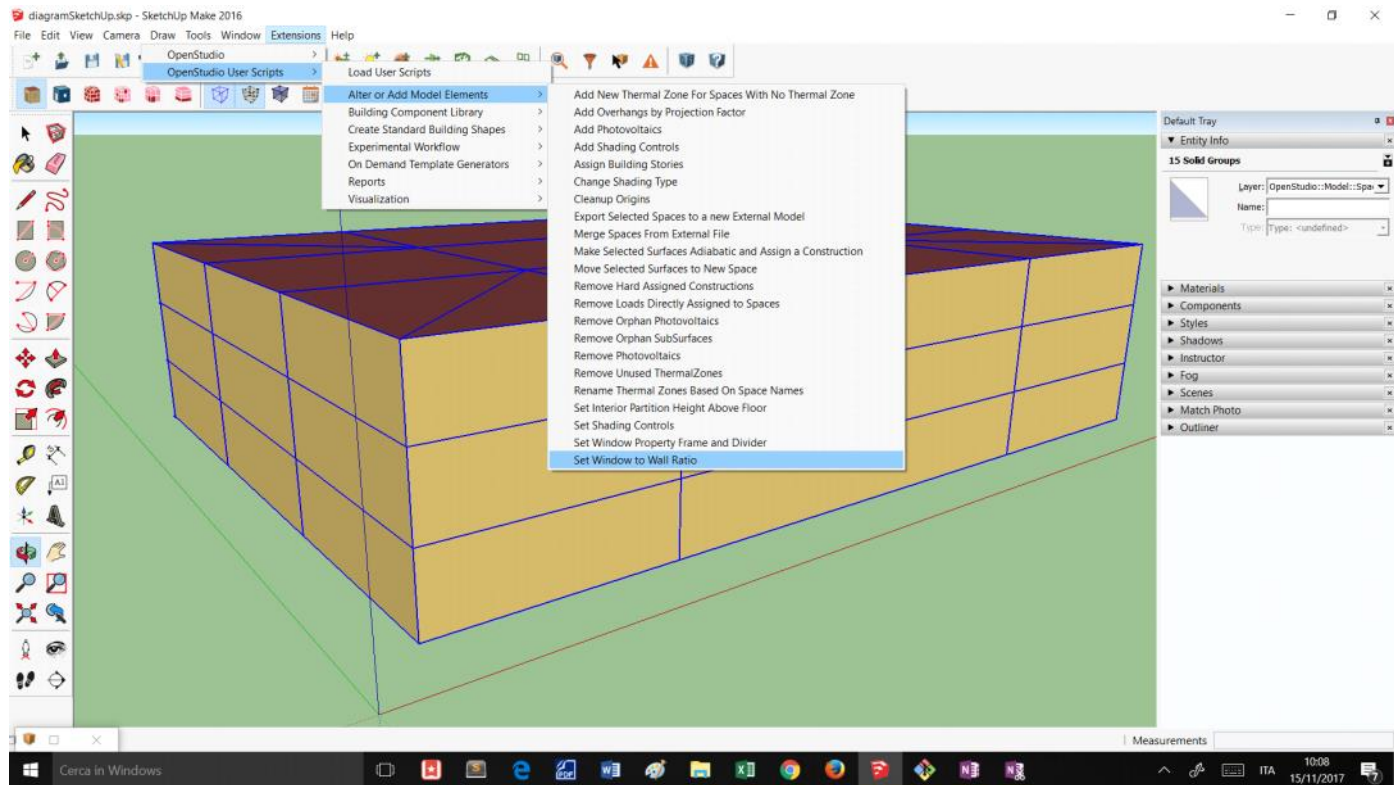
Once you created the building you can use info tool to see the properties of each surface, and you will see that the boundary conditions have been automatically assigned.

You need to carry out this step since if not you might have windows inside your building !!!!

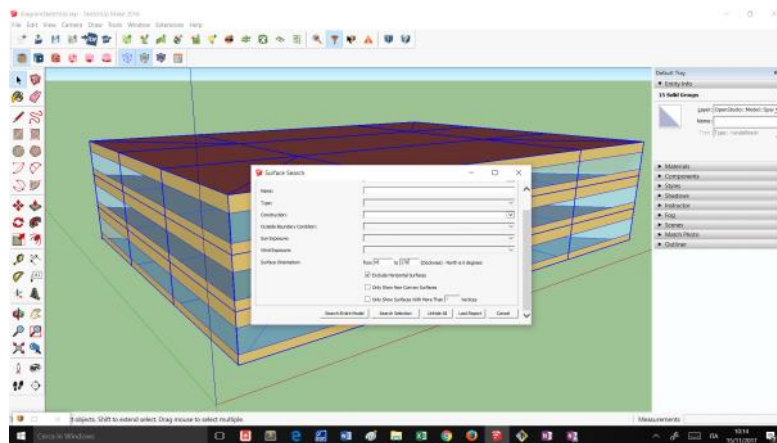
Surface matching tool



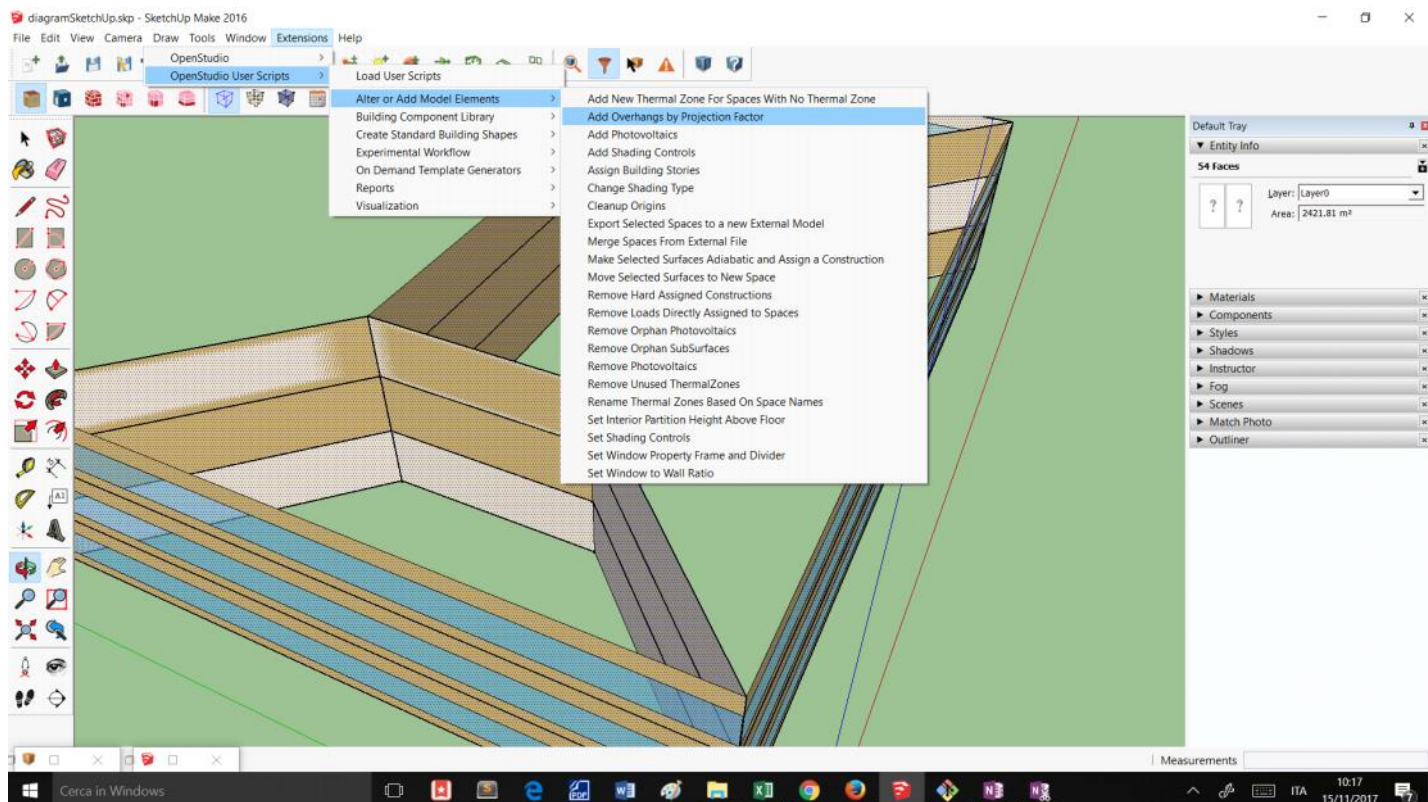
This is what you should do to add windows:



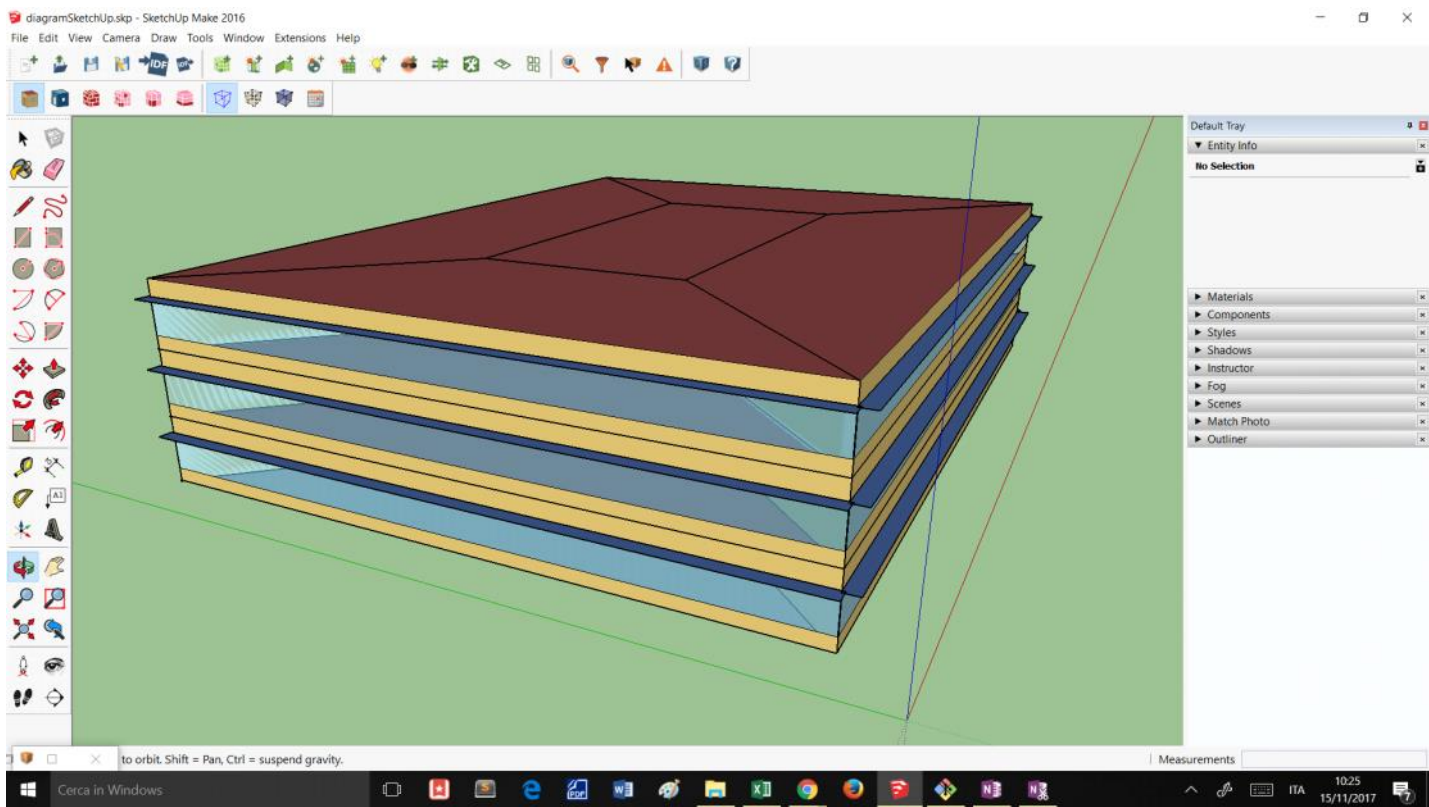
First you need to choose all of the surfaces except the north !! Like this:



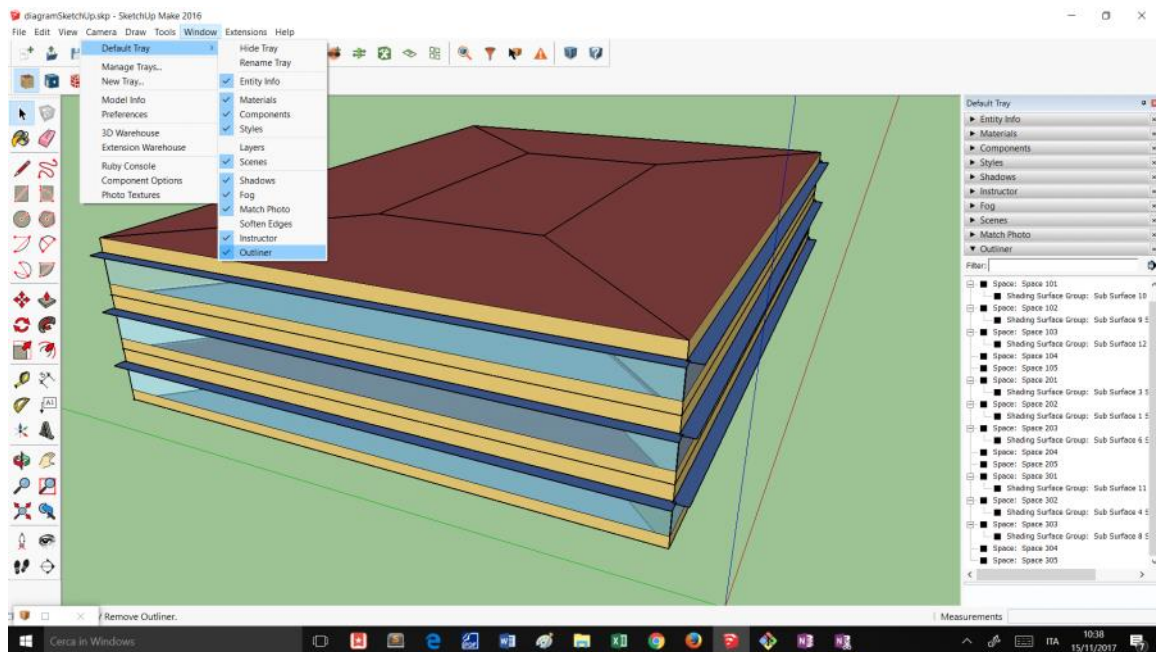
Now that we have selected our desired surfaces , we can add overhang (external shading) !!
Like this:



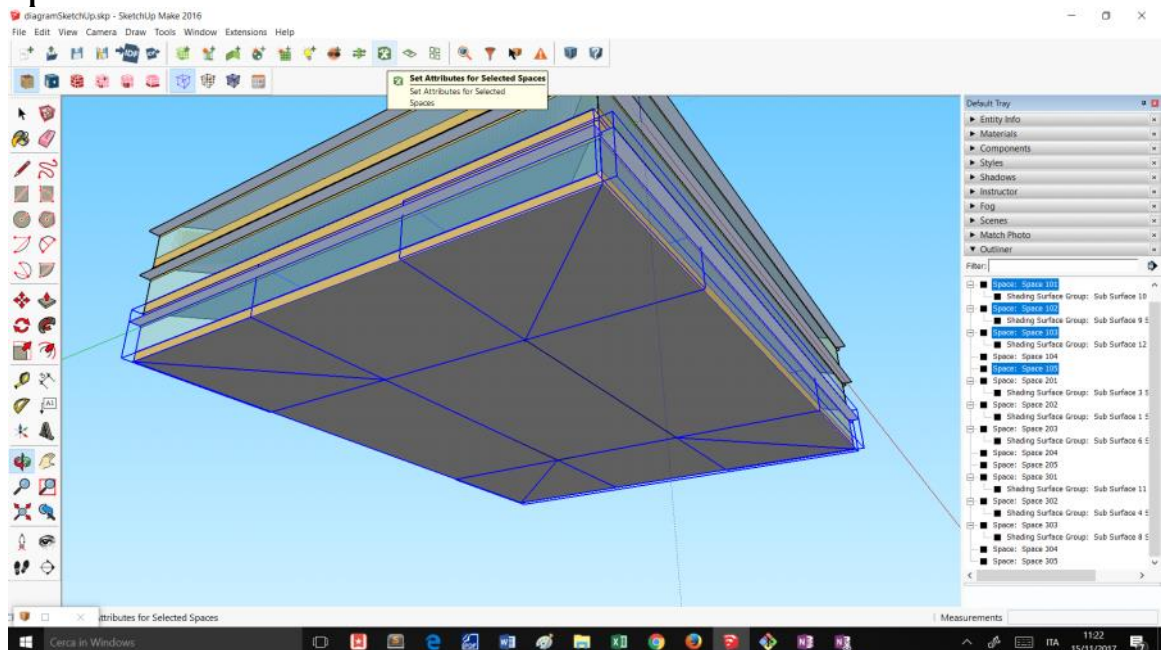
Then you should choose 0-360 surfaces so that you would go back to the previous selection



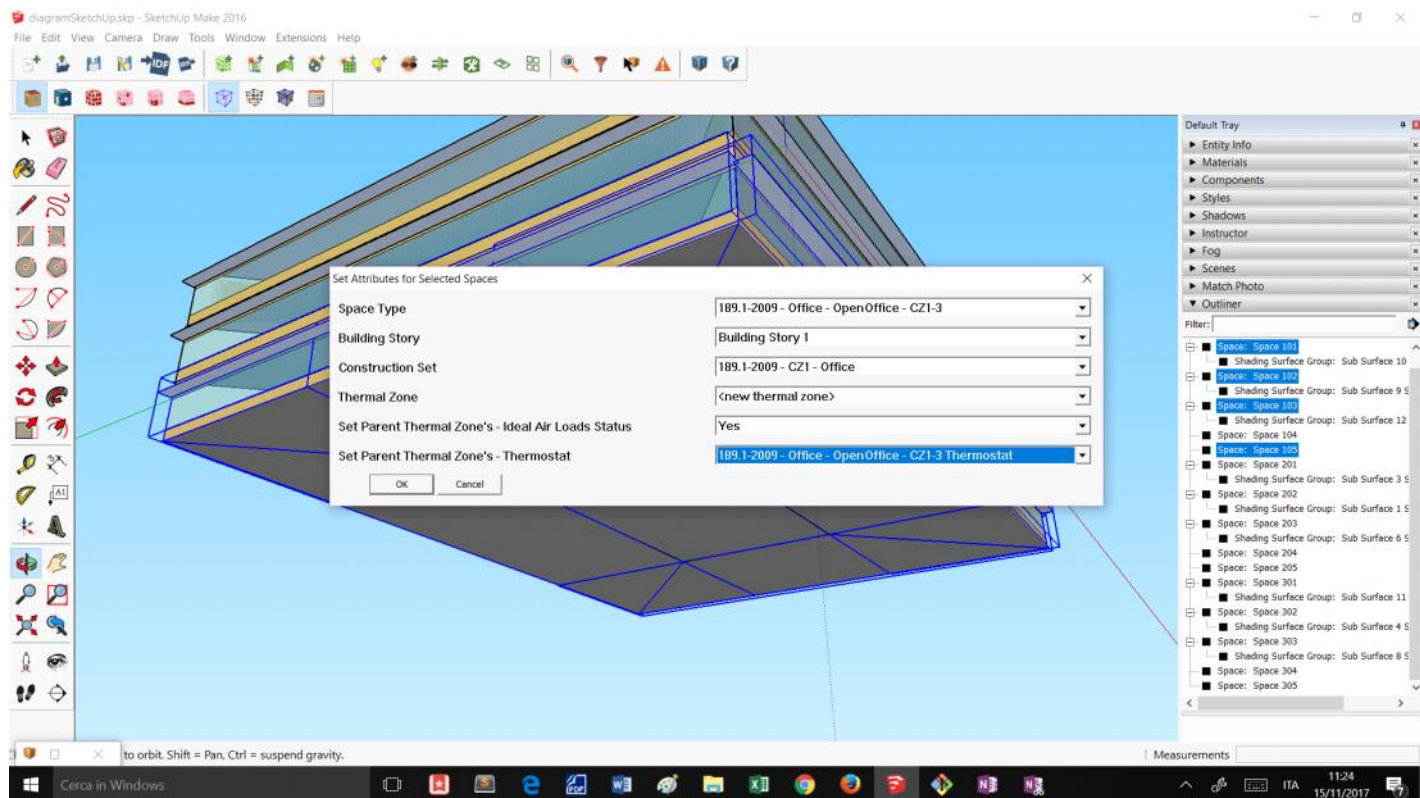
To perform this step you will need to have outliner in your tray: if you don't have it you should go through this procedure



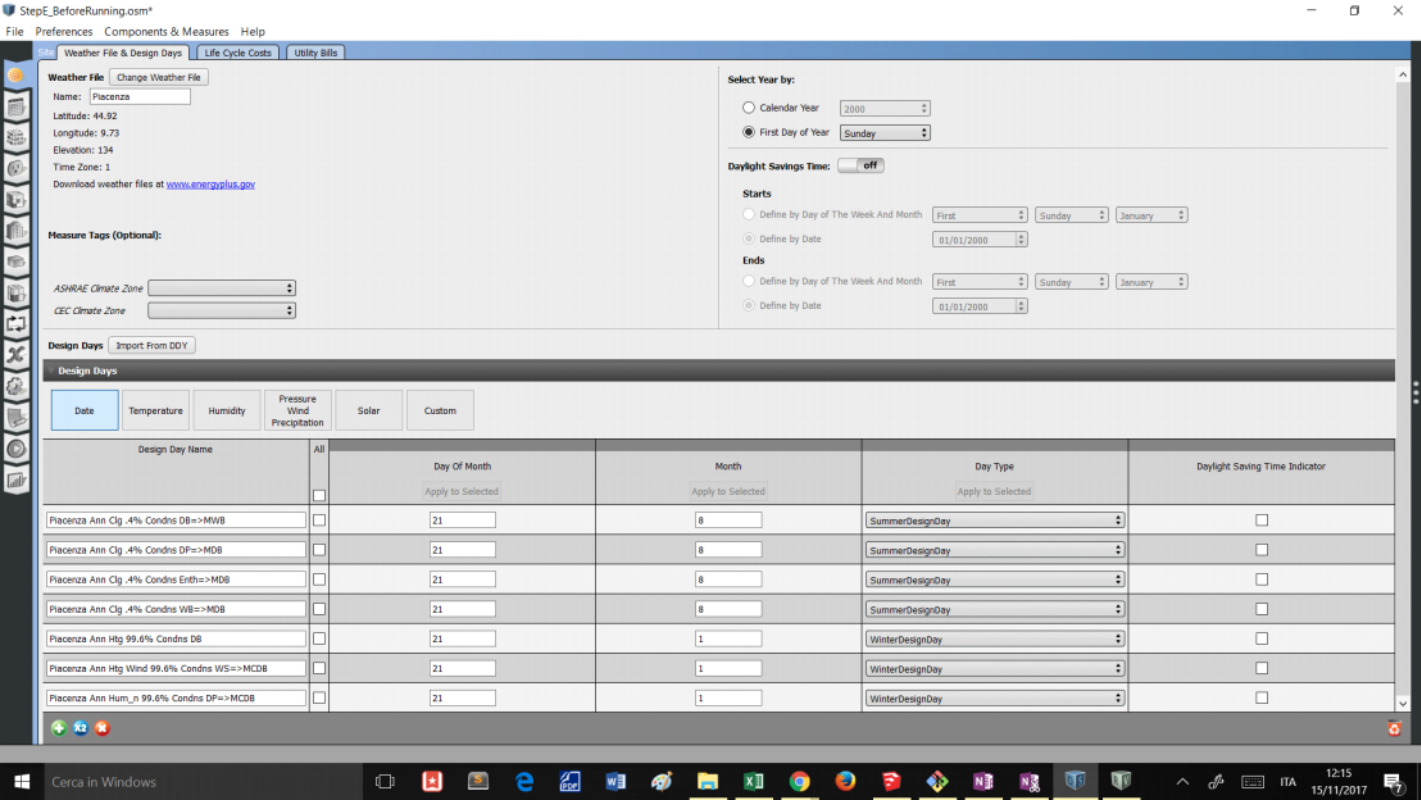
Now we choose the spaces of each thermal zone and we add specifications:



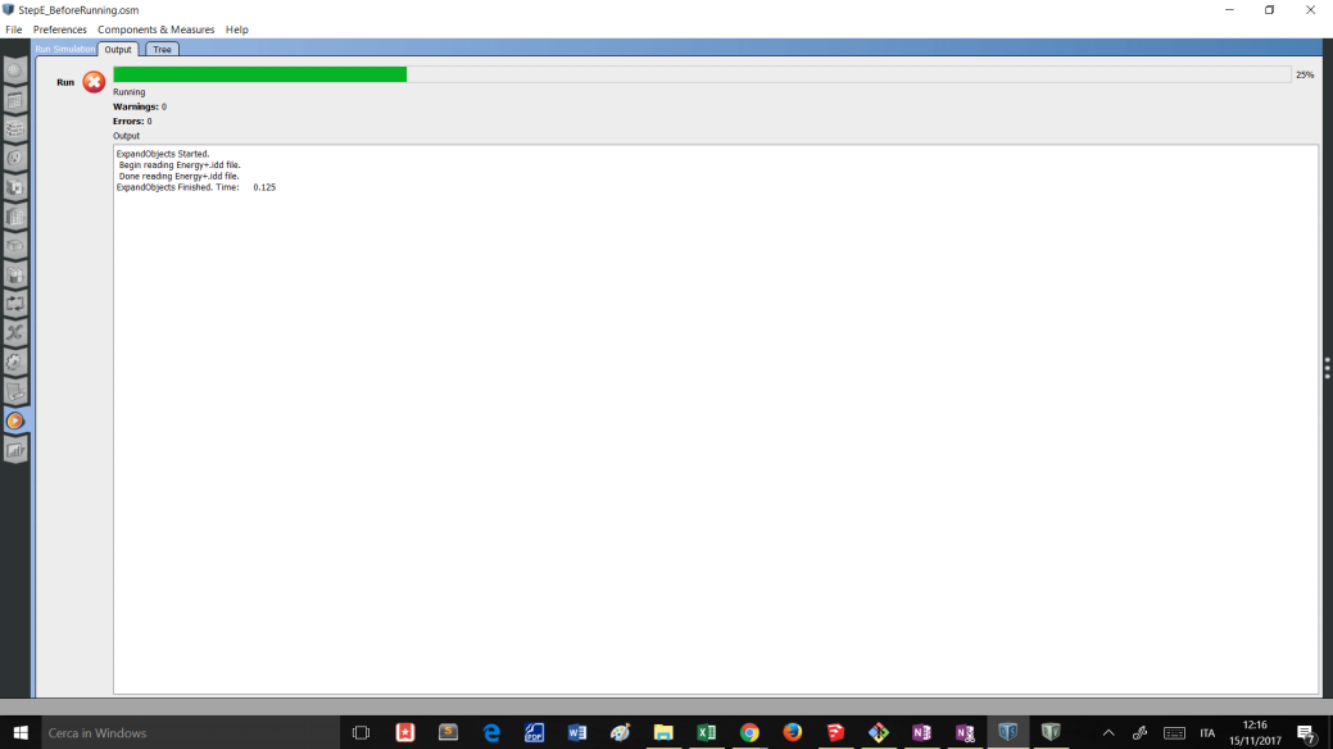
After choosing the mentioned button:



First you will need to launch Openstudio using sketchUpNext you will need to add the weather Data



Next you simply run the model:



Finally you can review your results in the last tab

The screenshot shows the EnergyPlus Results Viewer window. The main content area displays the 'Annual Building Utility Performance Summary' report. The report includes the following information:

- Program Version: EnergyPlus, Version 8.5.0-c87e61b44b, YMD=2017.11.15 12:16
- Tabular Output Report in Format: HTML
- Building: Building 1
- Environment: RUN PERIOD 1 ** Piacenza - ITA IGDG WMO=-160840
- Simulation Timestamp: 2017-11-15 12:16:21
- Report: Annual Building Utility Performance Summary
- For: Entire Facility
- Timestamp: 2017-11-15 12:16:21
- Values gathered over 8760.00 hours

The report includes two tables:

	Total Energy [GJ]	Energy Per Total Building Area [MJ/m2]	Energy Per Conditioned Building Area [MJ/m2]
Total Site Energy	2421.76	672.71	672.71
Net Site Energy	2421.76	672.71	672.71
Total Source Energy	6320.91	1755.81	1755.81
Net Source Energy	6320.91	1755.81	1755.81

	Site->Source Conversion Factor
Electricity	3.167
Natural Gas	1.084
District Cooling	1.056
District Heating	3.613

The window also features a sidebar with various icons and a top menu bar with options like File, Preferences, Components & Measures, and Help. The bottom taskbar shows the Windows Start button, a search bar, and several application icons.