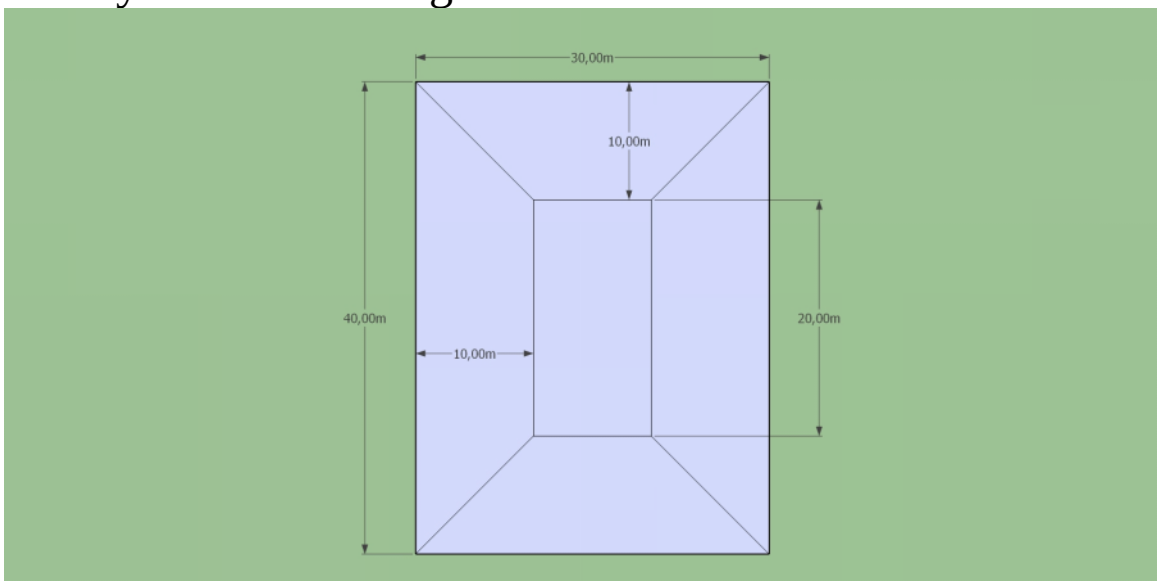
# What do we do first:

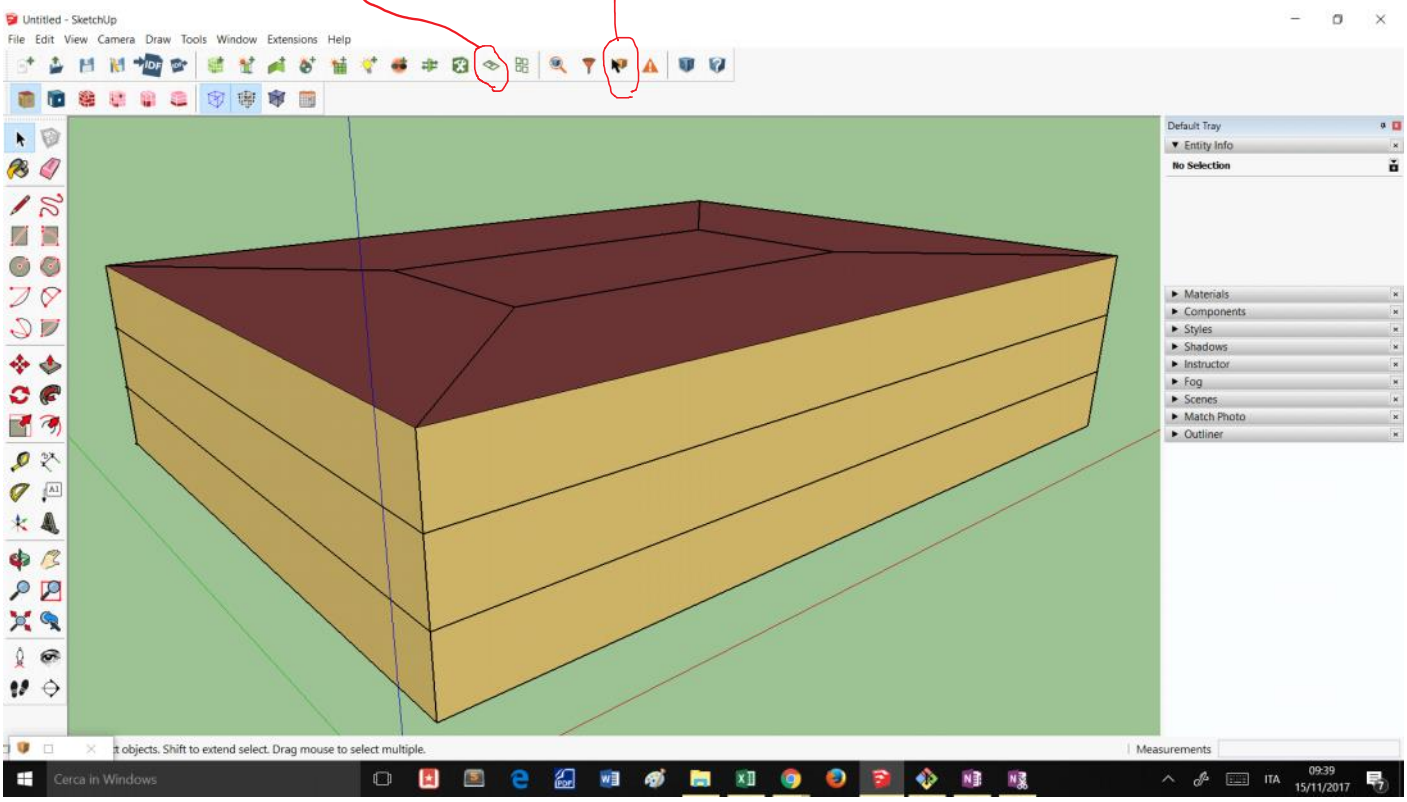
We just draw the diagram by creating a 40×30 rectangle
Then create another rectangle inside it (with the offset of 10 m)
Finally connect the edges with 4 lines !!



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

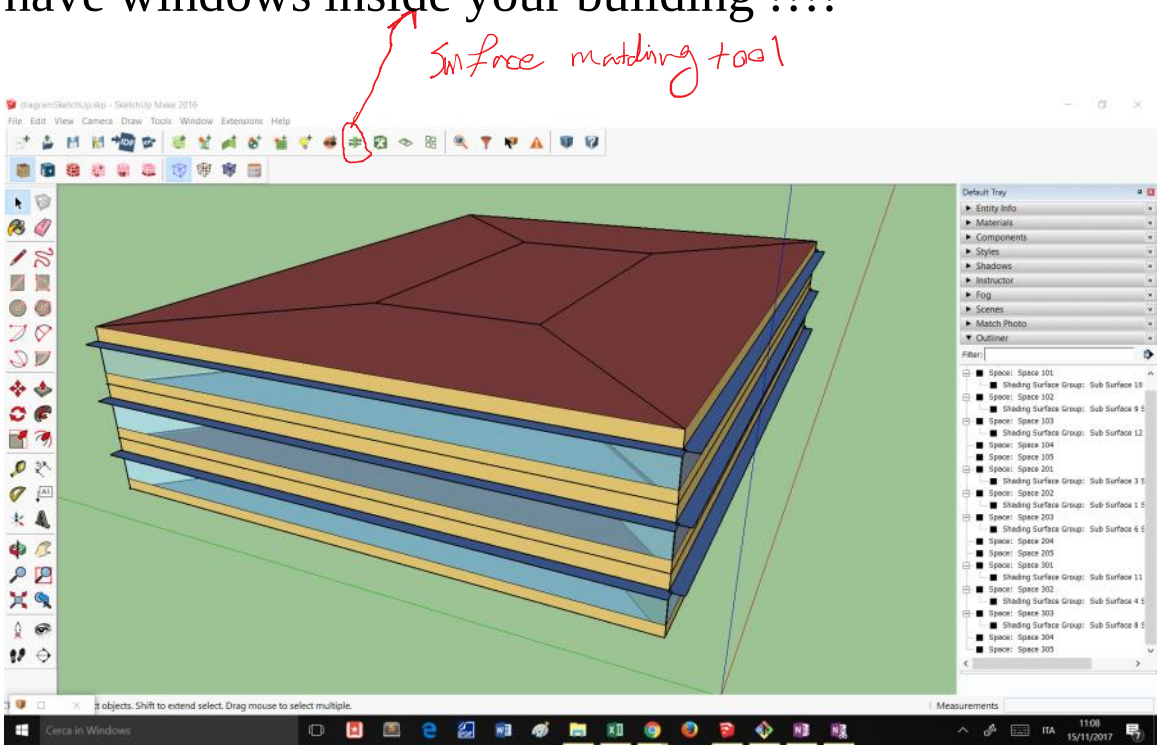
Create spaces from diagram

Info tool

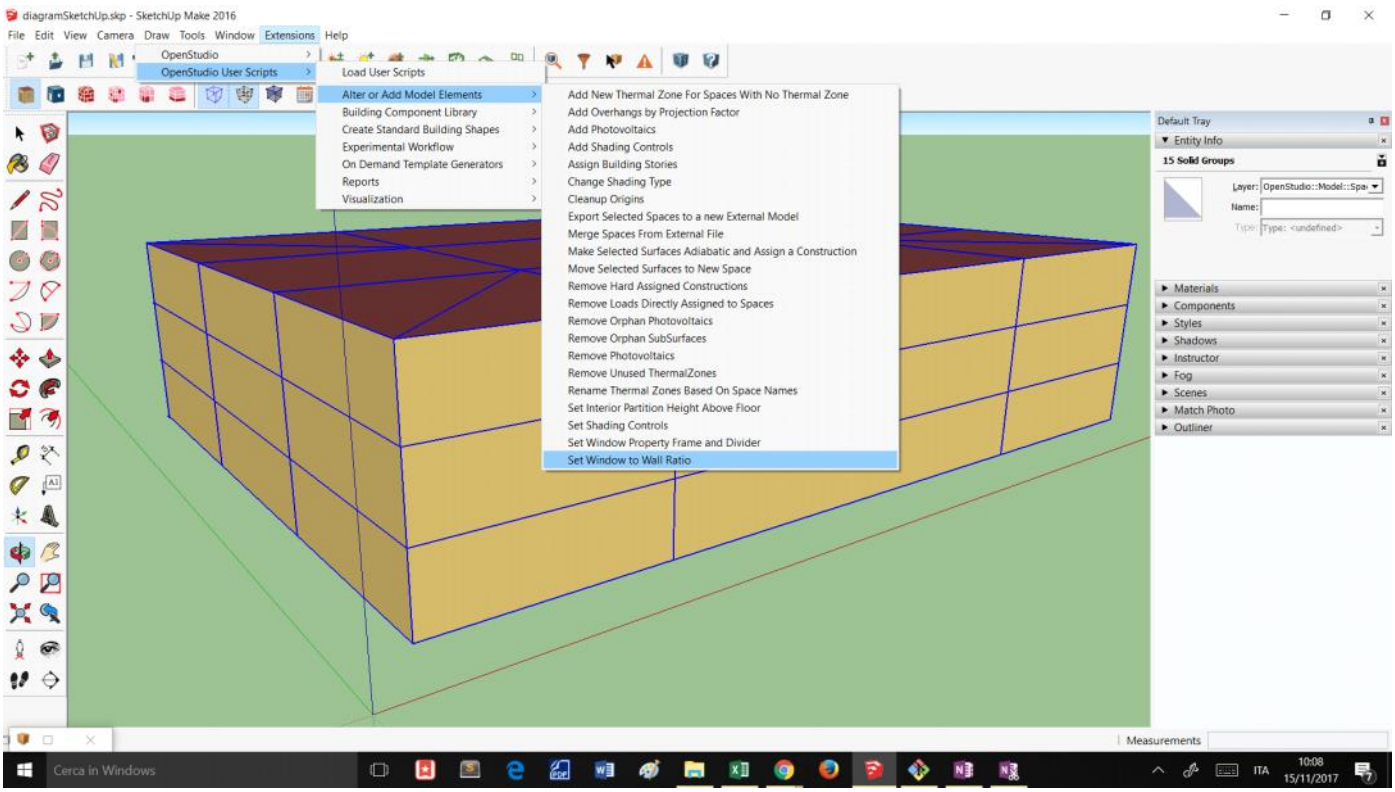



Once you created the building you can use info tool to see the properties of each surface, and you will see that the boundary conditions have been automatically assigned.

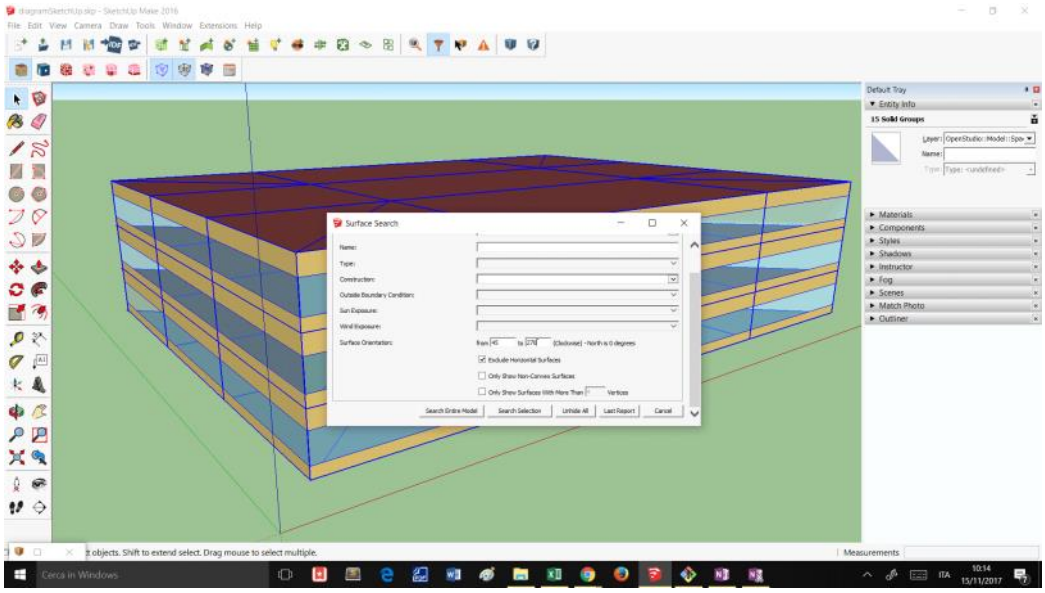
You need to carry out this step since if not you might have windows inside your building !!!!

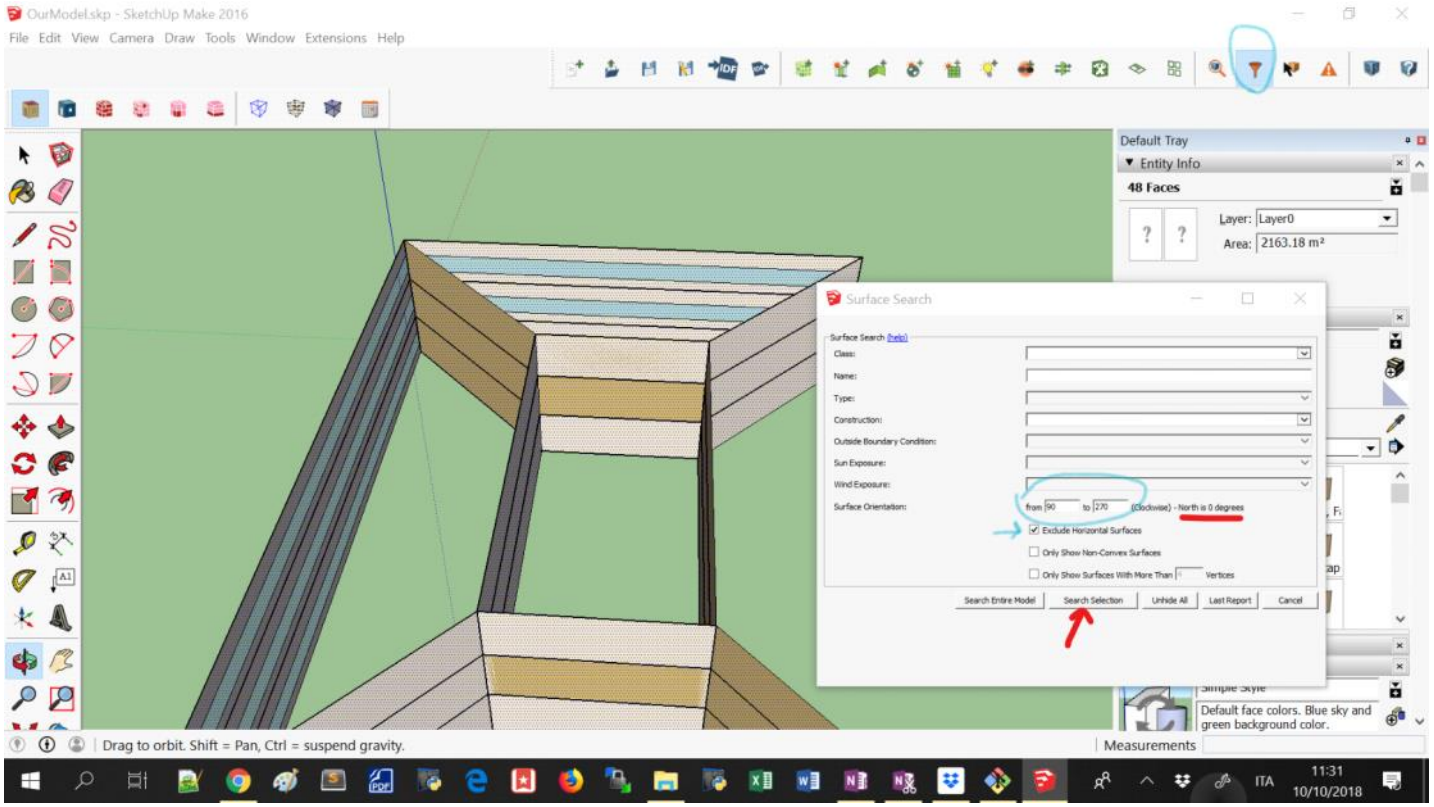


This is what you should do to add windows:

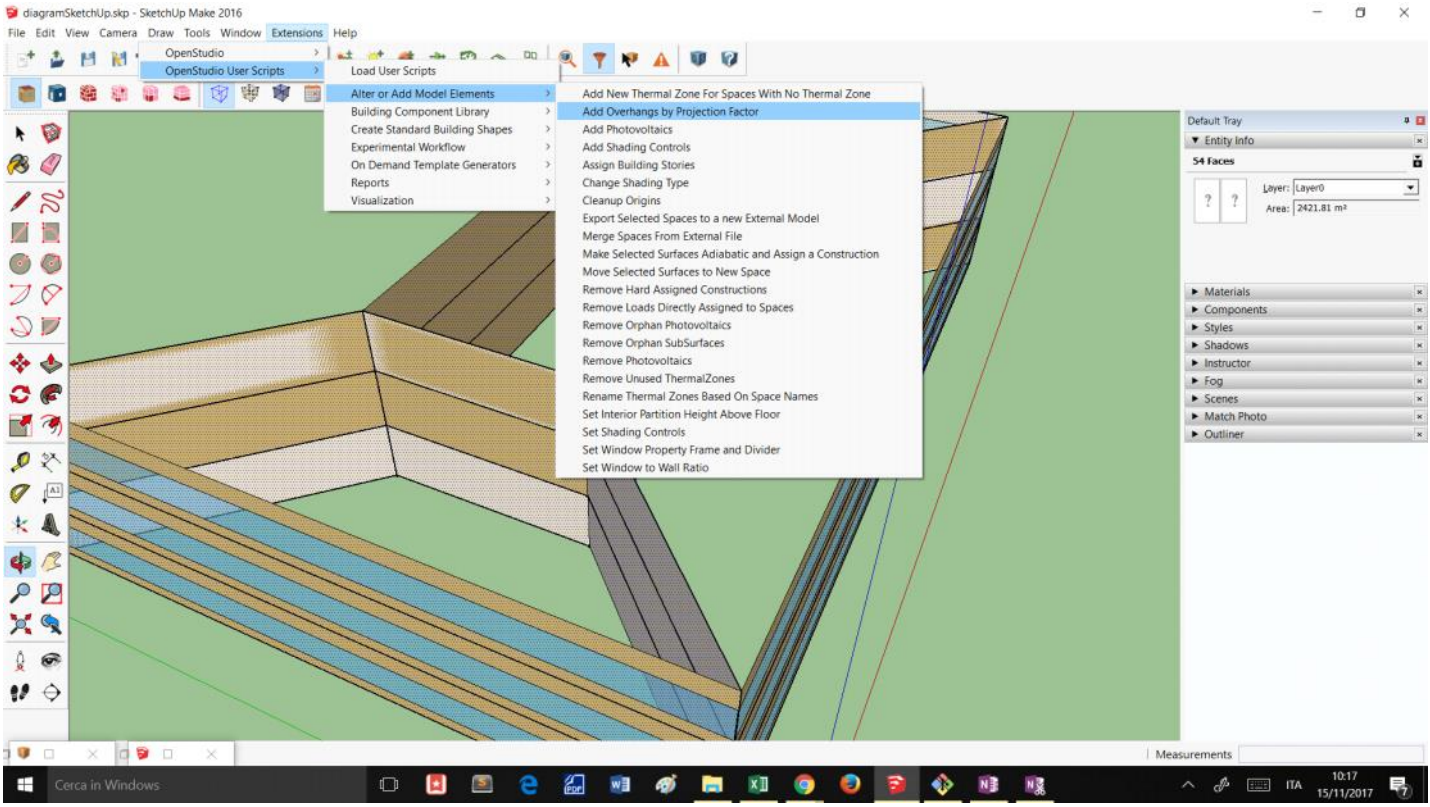


First you need to choose all of the surfaces except the north !! Like this:

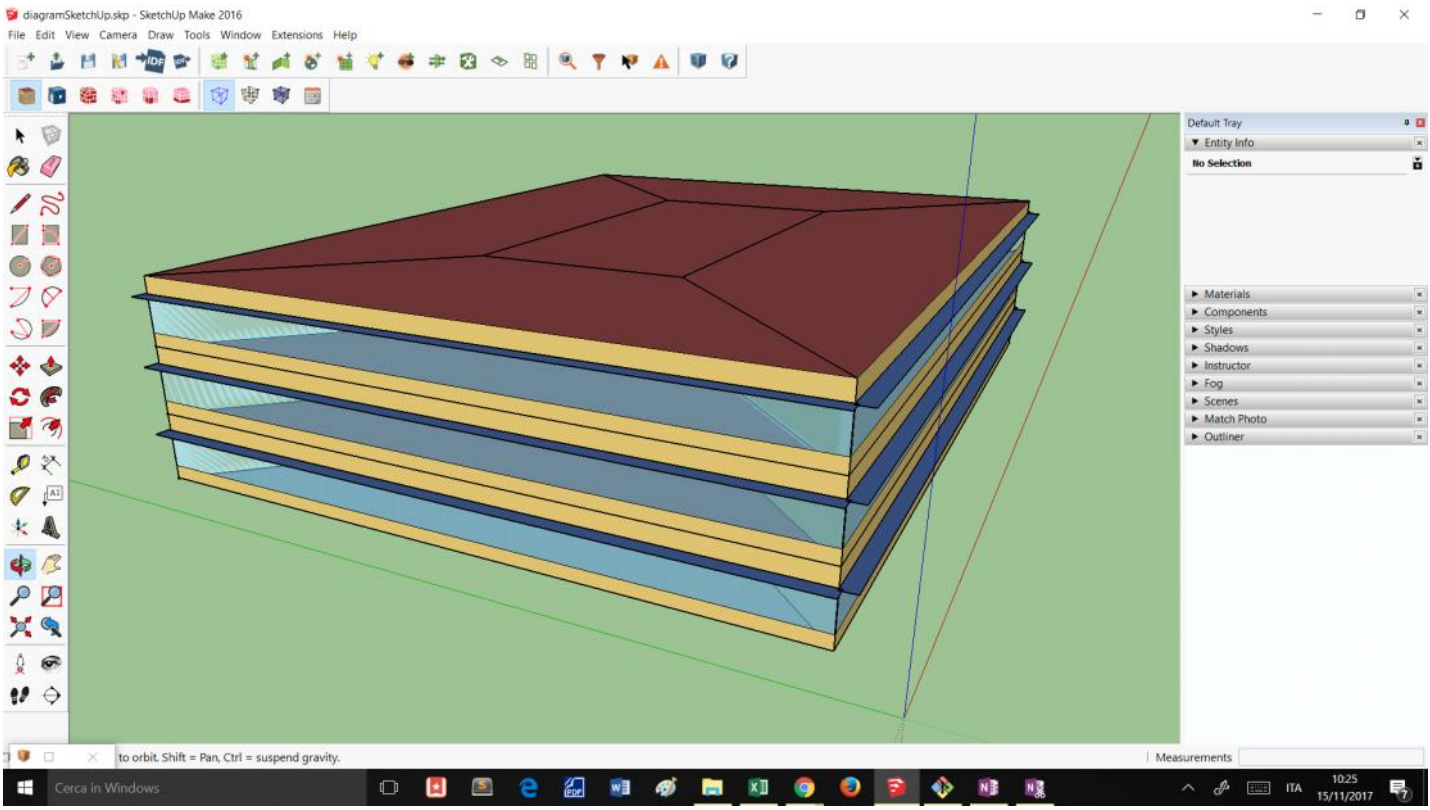




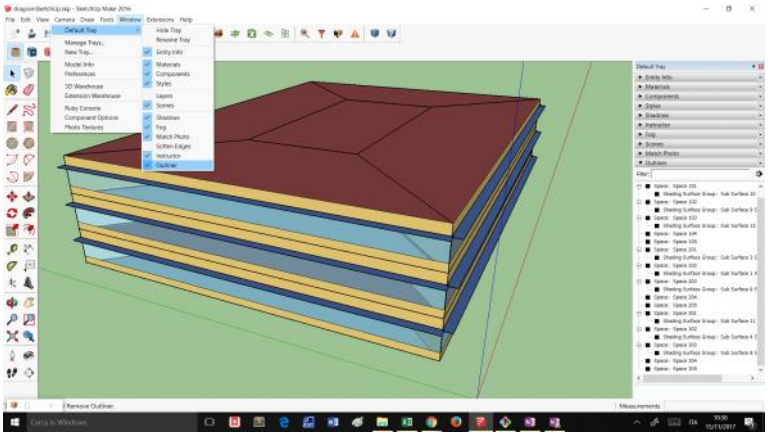

Now that we have selected our desired surfaces , we can add overhang (external shading) !!
Like this:



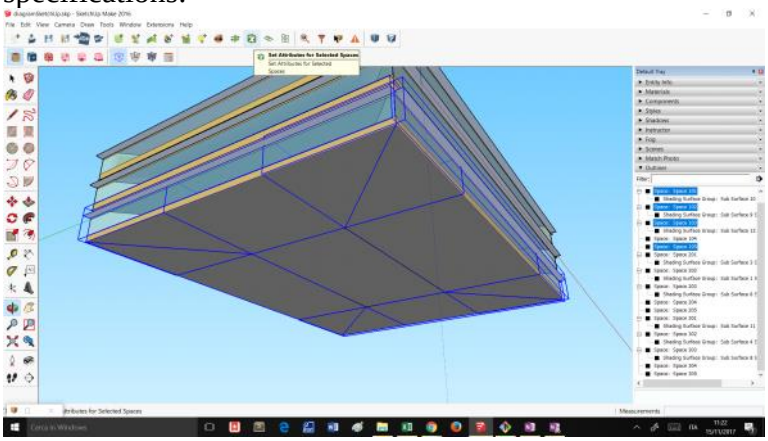

Then you should choose 0-360 surfaces so that you would go back to the previous selection

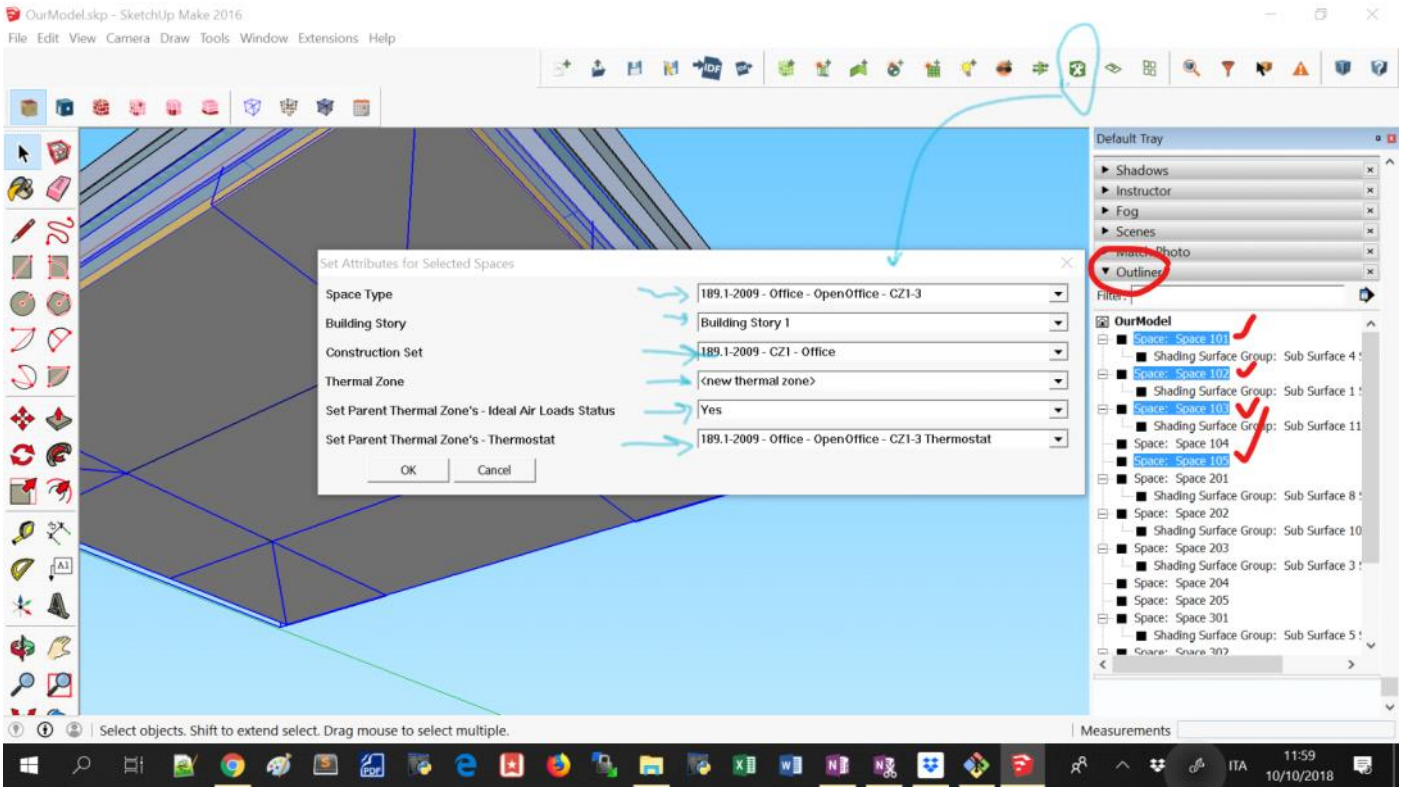


To perform this step you will need to have outliner in your tray: if you don't have it you should go through this procedure

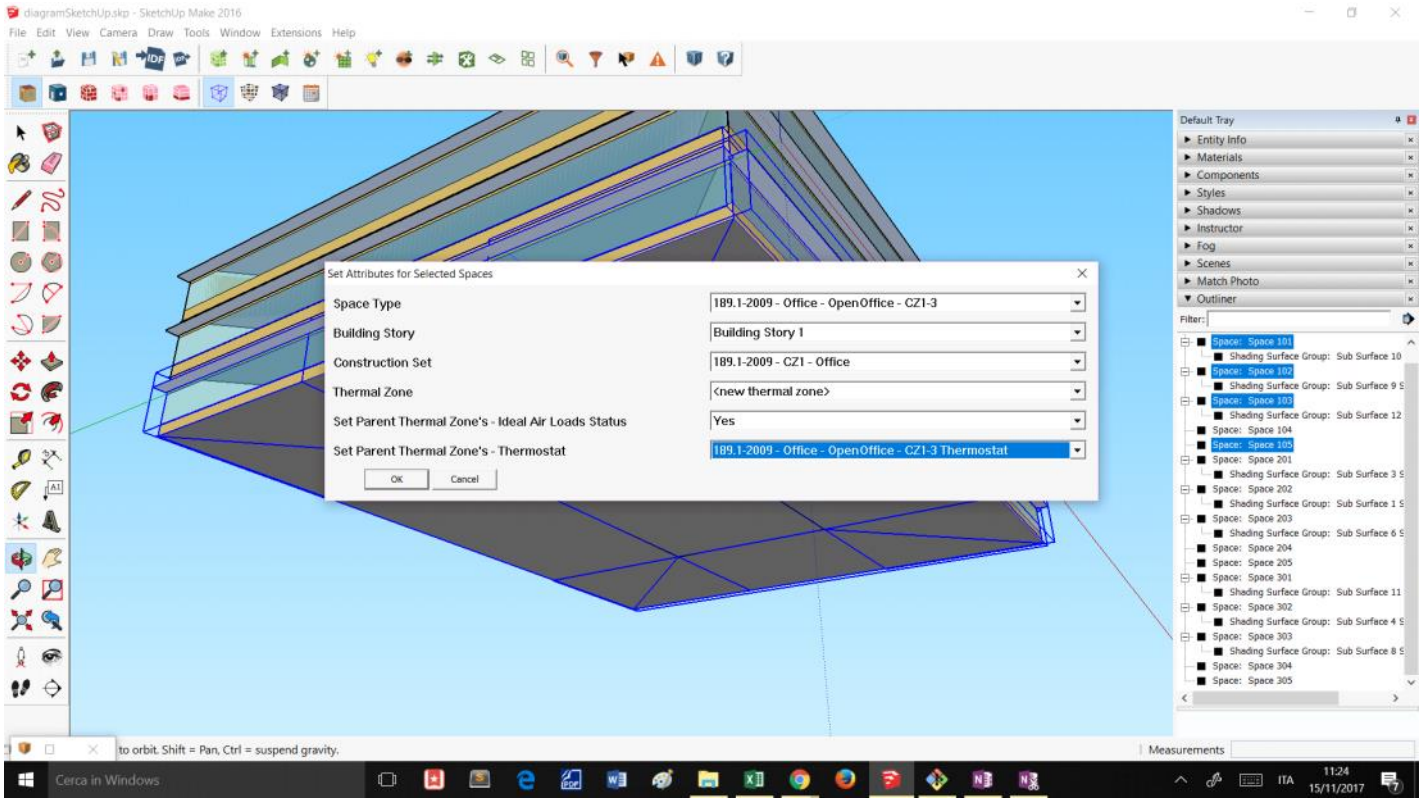


Now we choose the spaces of each thermal zone and we add specifications:

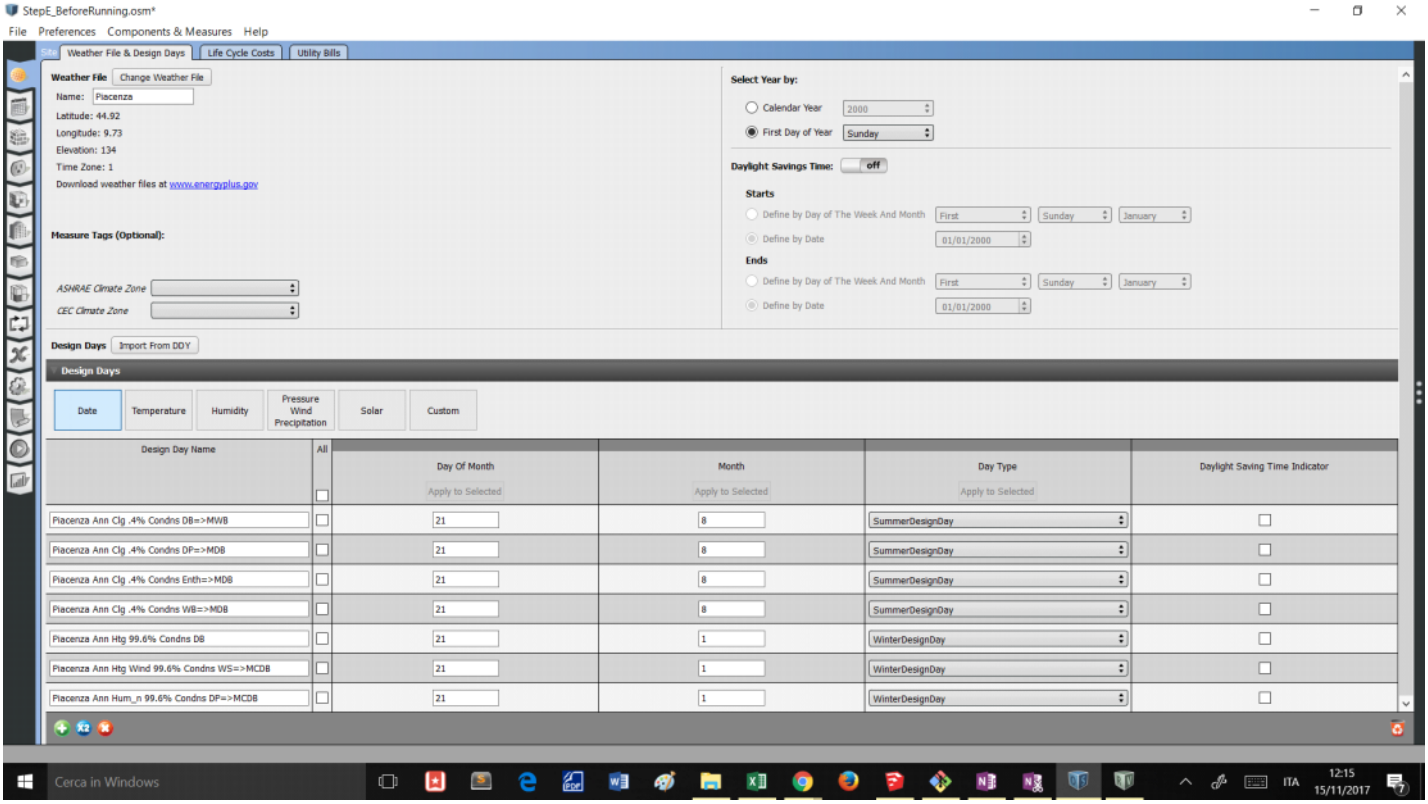



OurModel.skp - SketchUp Make 2016
File Edit View Camera Draw Tools Window Extensions Help
Default Tray
Shadows
Instructor
Fog
Scenes
Outliner
OurModel
Set Attributes for Selected Spaces
Space Type
189.1-2009 - Office - OpenOffice - CZ1-3
Building Story
Building Story 1
Construction Set
189.1-2009 - CZ1 - Office
Thermal Zone
<new thermal zone>
Set Parent Thermal Zone's - Ideal Air Loads Status
Yes
Set Parent Thermal Zone's - Thermostat
189.1-2009 - Office - OpenOffice - CZ1-3 Thermostat
OK
Cancel
Space: Space 101
Space: Space 102
Space: Space 103
Space: Space 104
Space: Space 105
Space: Space 201
Space: Space 202
Space: Space 203
Space: Space 204
Space: Space 205
Space: Space 301
Select objects. Shift to extend select. Drag mouse to select multiple.
Measurements
ITA
11:59
10/10/2018

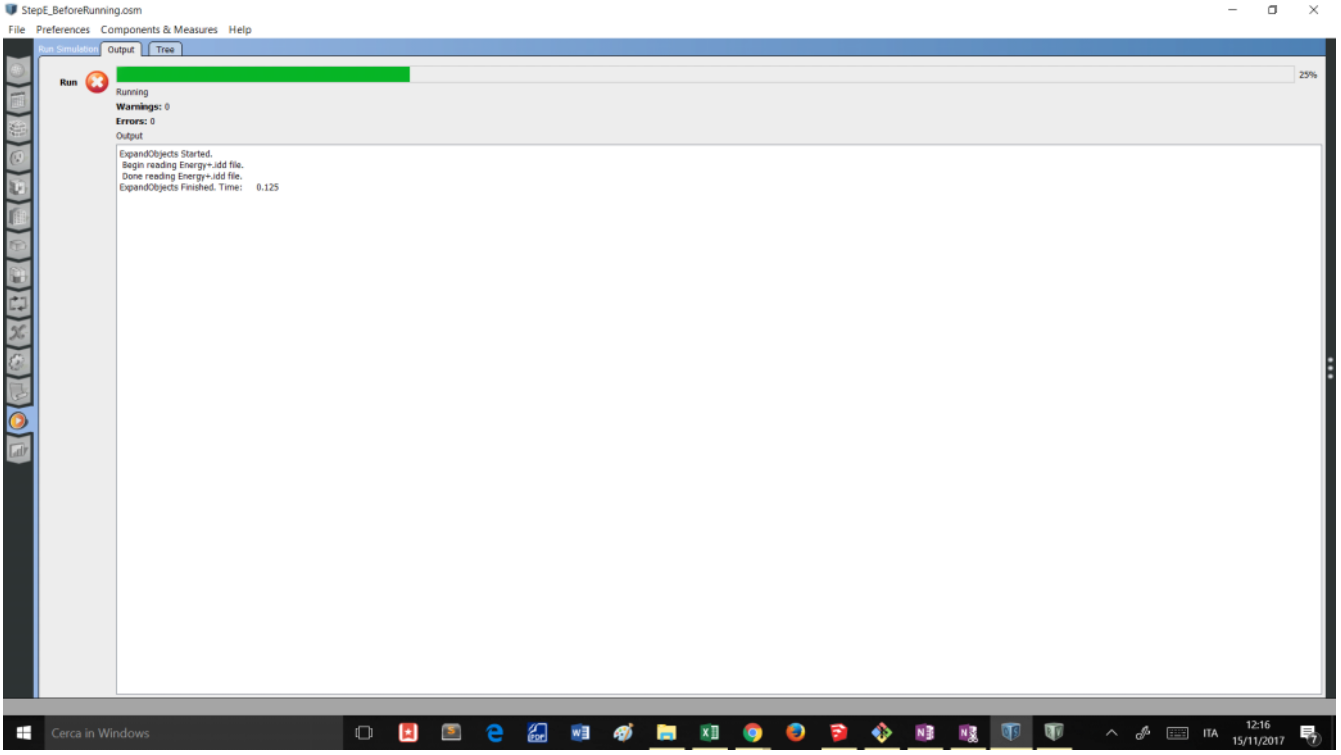
After choosing the mentioned button:



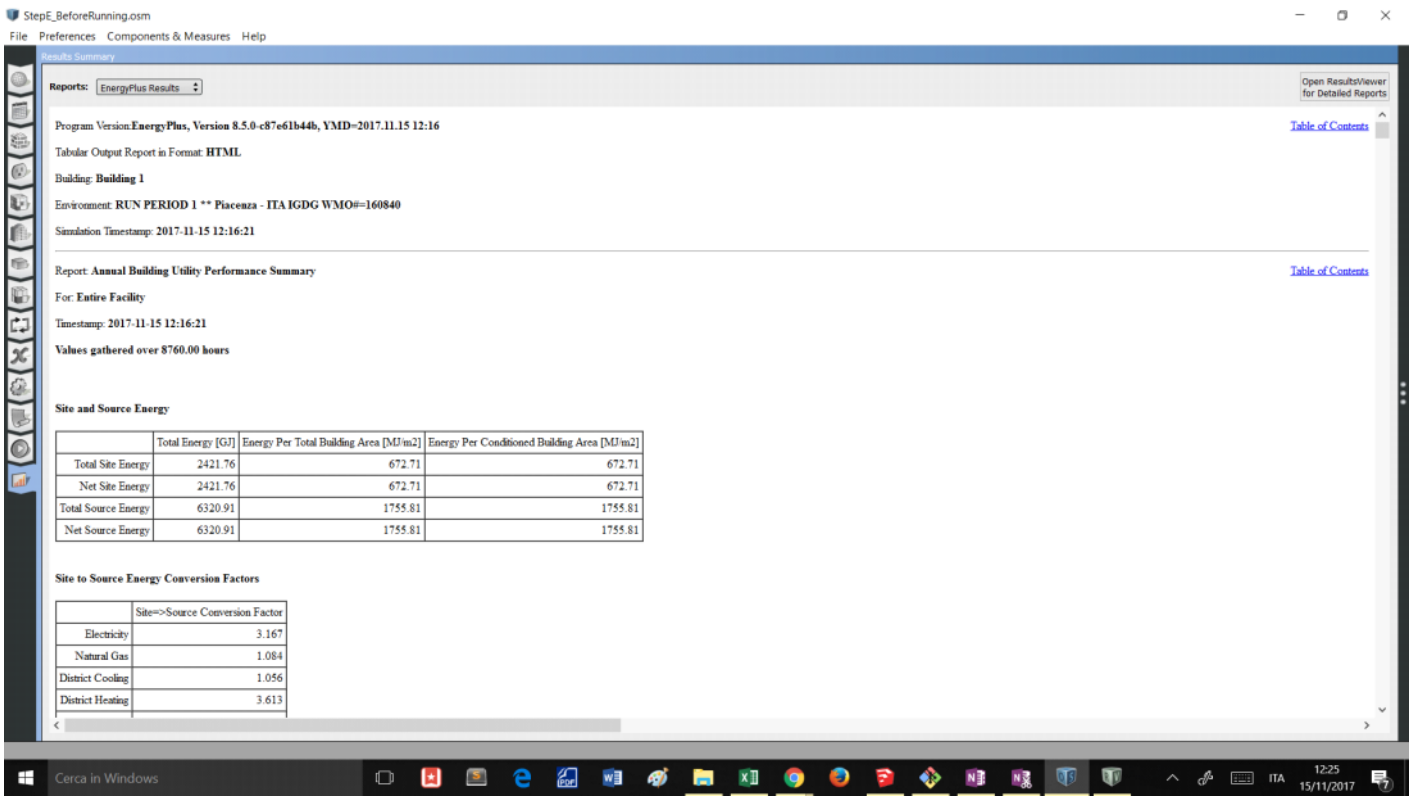
First you will need to launch Openstudio using sketchUpNext you will need to add the weather Data

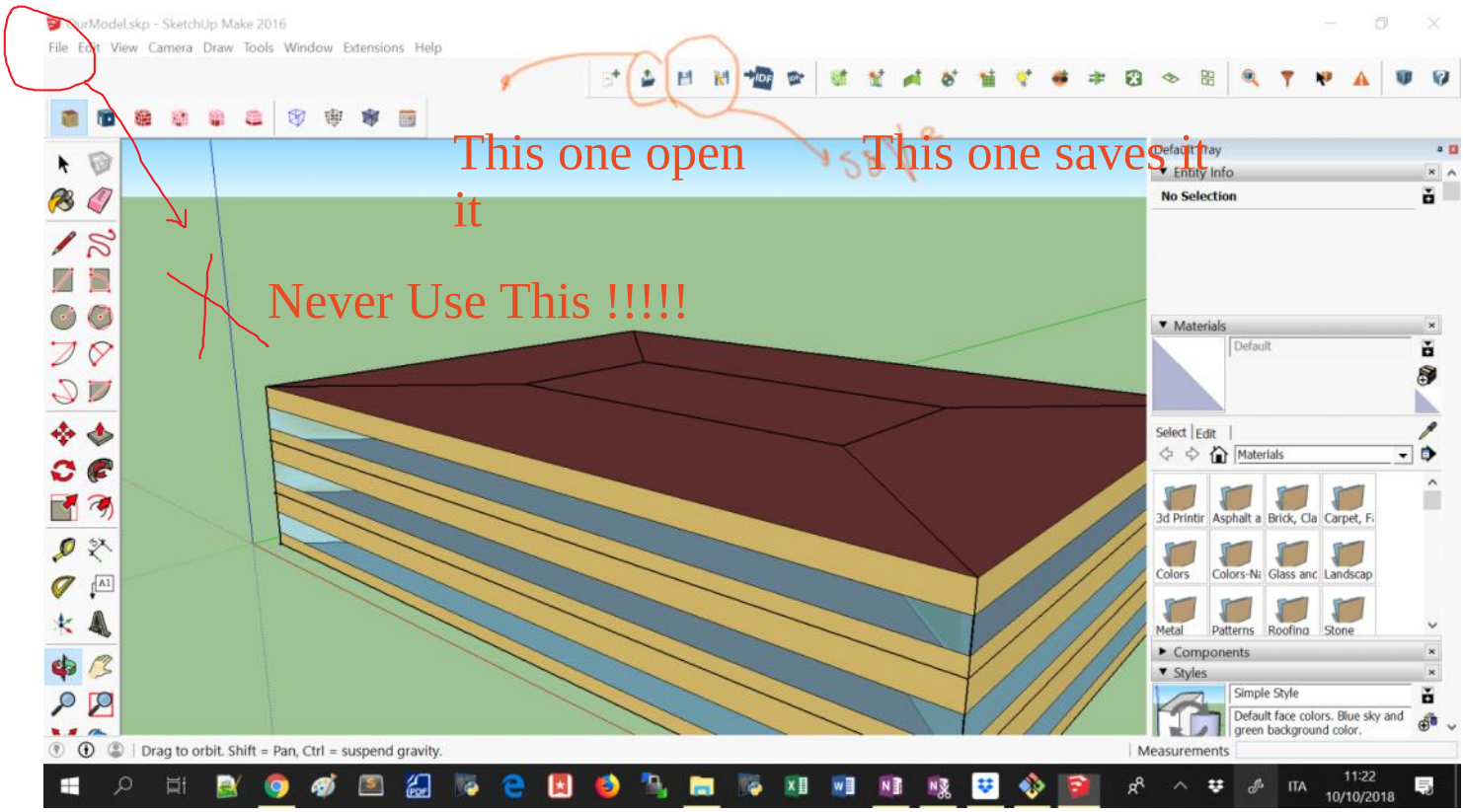



Next you simply run the model:



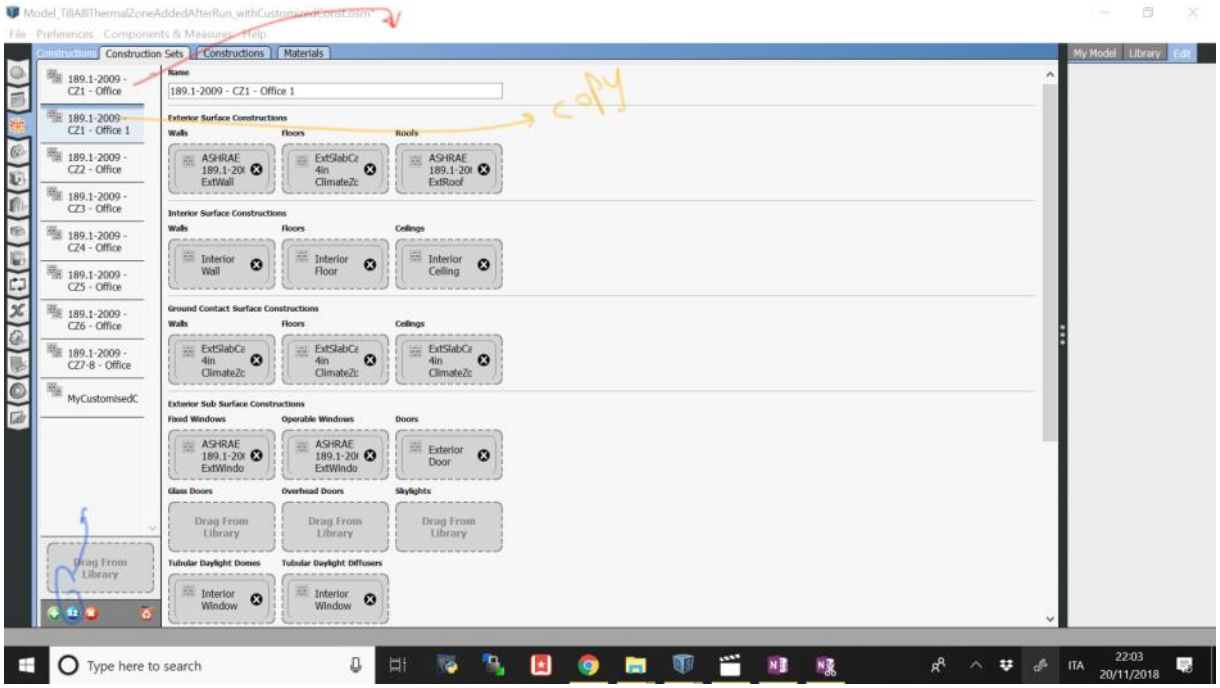
# Finally you can review your results in the last tab



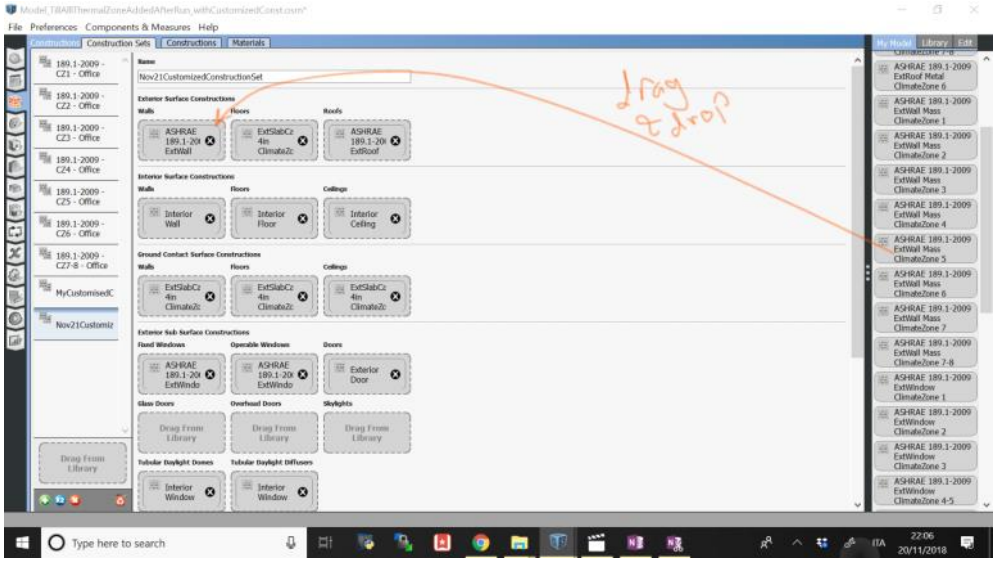

This one open it
This one saves it
Never Use This !!!!!
Drag to orbit. Shift = Pan, Ctrl = suspend gravity.
Measurements

# Modifying Construction !

martedì 20 novembre 2018 22:00



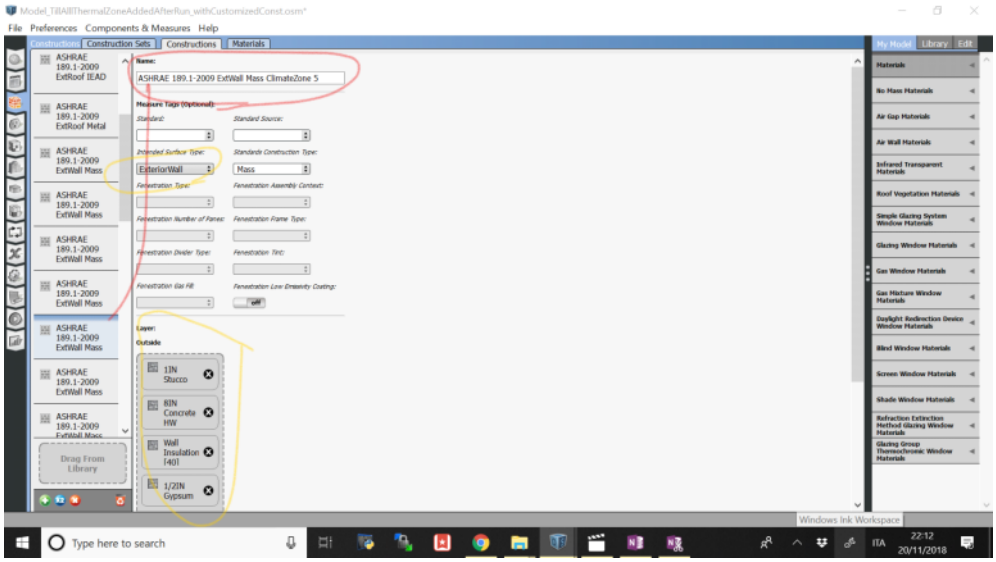

How to change some of the construction (for example external walls) in our customized construction set:



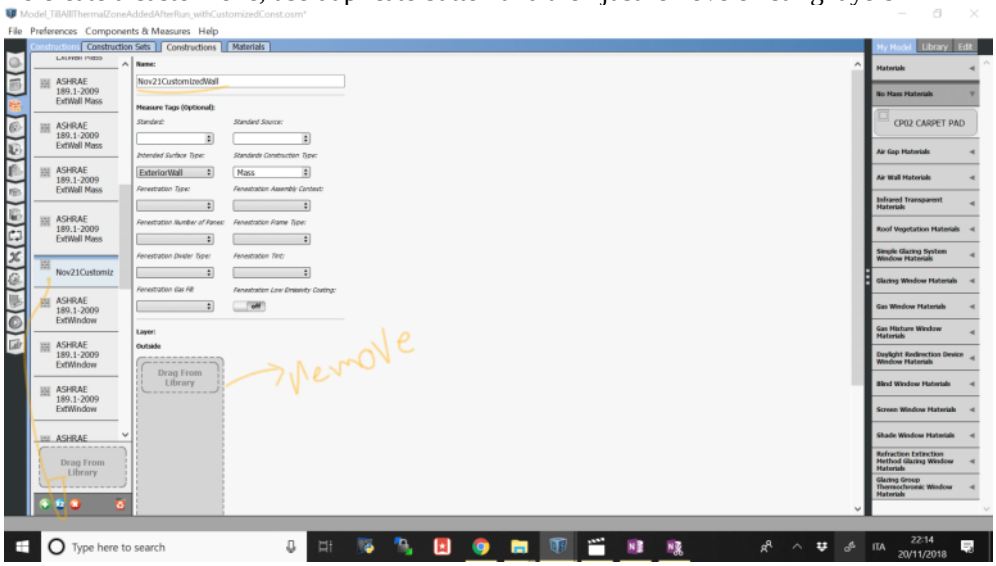

Till here we are just using existing construction !

What if we would like to define a new construction or to check the properties of the existing ones !
You need to go to the constructions tab :

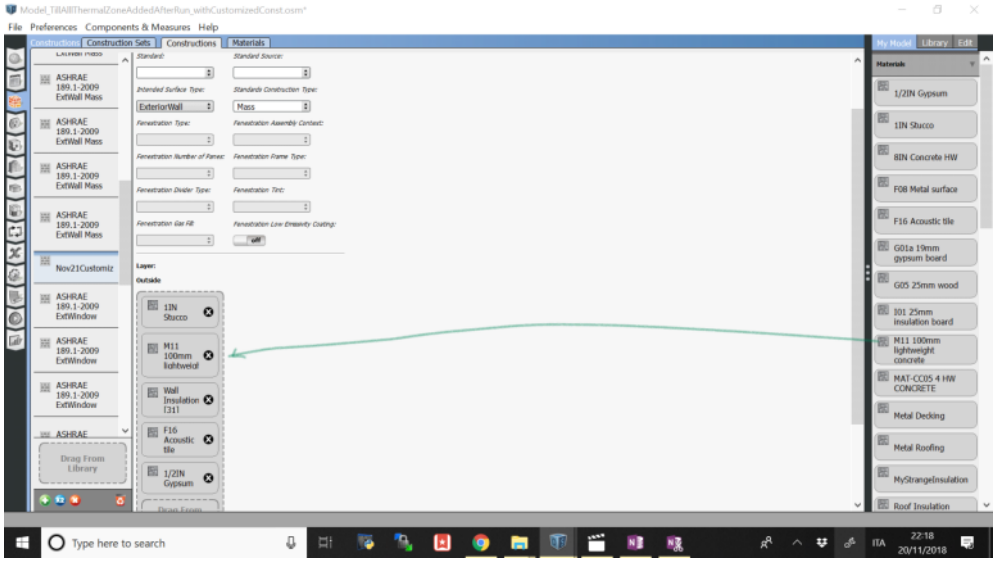
To check existing constructions' properties:



To create a custom one, use duplicate button and then just remove existing layers

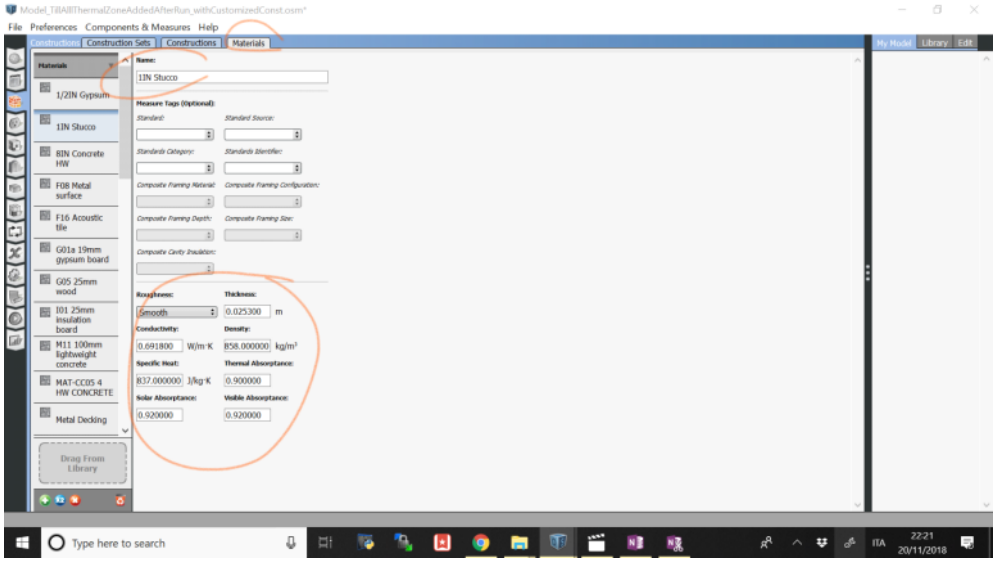



You just drag and drop from the material library

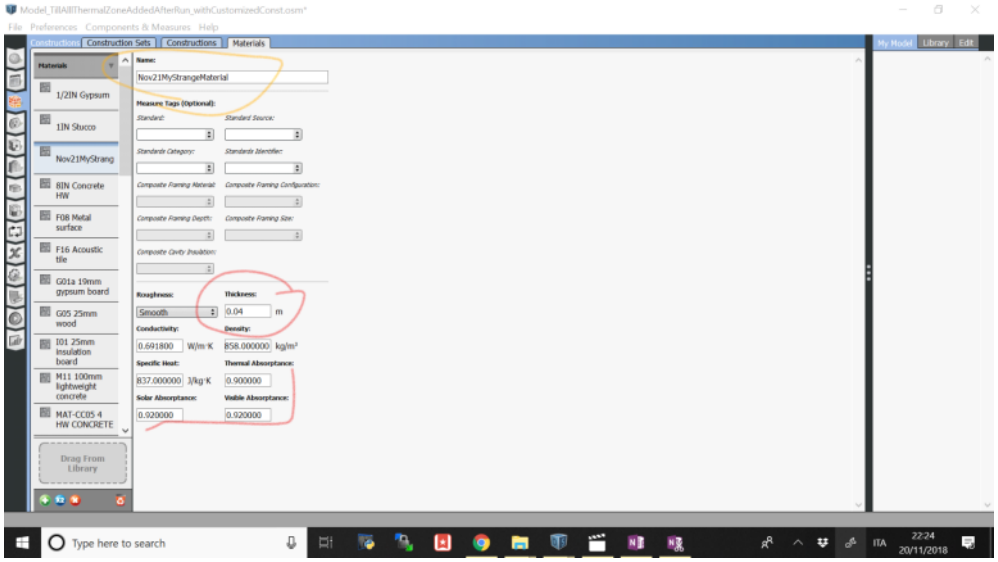


Pay attention that you should add the layers from outside to the inside

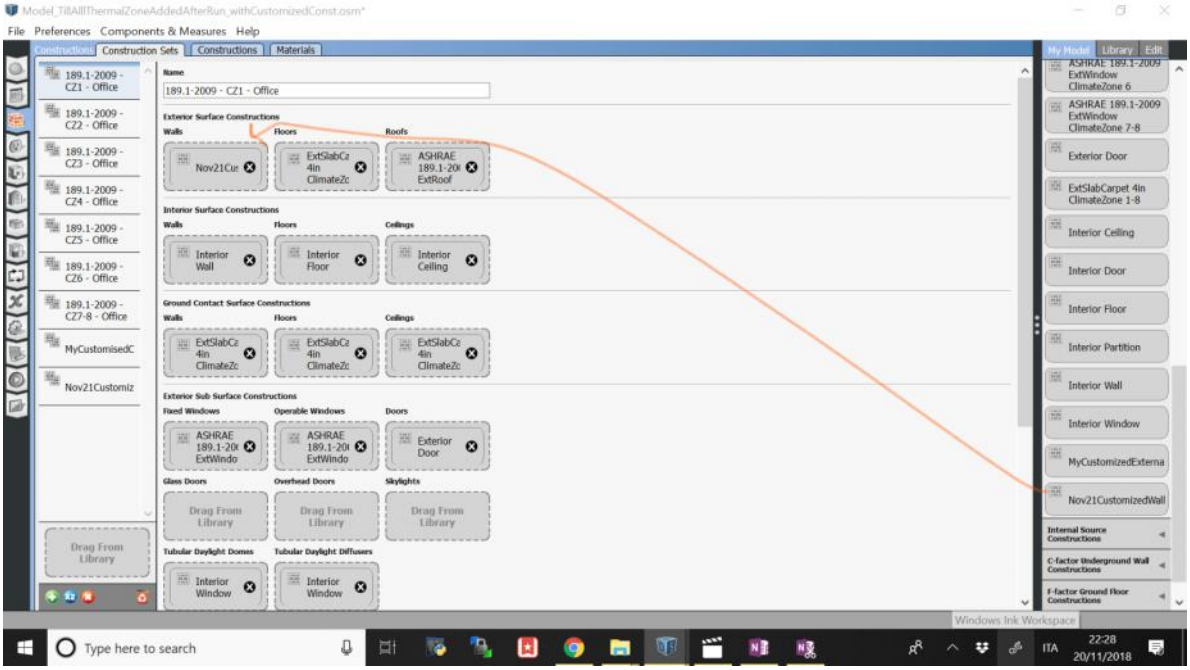
Till here we have been using existing materials, how can we check their properties and how can we define new materias, of couse you will need to go to materials tab !!




How to define a new one! Use duplicate again !! And change the thickness or properties!




You can next use your customized materails to modify you customized constructions, and you can use your customized constructions to modify your customized construction set !!!


Model_TillAllThermalZoneAddedAfterRun_withCustomizedConst.osm*
File Preferences Components & Measures Help
Construction Sets
Constructions
Materials
189.1-2009 - CZ1 - Office
189.1-2009 - CZ2 - Office
189.1-2009 - CZ3 - Office
189.1-2009 - CZ4 - Office
189.1-2009 - CZ5 - Office
189.1-2009 - CZ6 - Office
189.1-2009 - CZ7-8 - Office
MyCustomisedC
Nov21Customiz
Drag From Library
Name
189.1-2009 - CZ1 - Office
Exterior Surface Constructions
Walls
Floors
Roofs
Nov21Cus
ExtSlabCa 4in ClimateZc
ASHRAE 189.1-20 ExtRoof
Interior Surface Constructions
Walls
Floors
Ceilings
Interior Wall
Interior Floor
Interior Ceiling
Ground Contact Surface Constructions
Walls
Floors
Ceilings
ExtSlabCa 4in ClimateZc
Exterior Sub Surface Constructions
Fixed Windows
Operable Windows
Doors
ASHRAE 189.1-20 ExtWindo
Exterior Door
Glass Doors
Overhead Doors
Skylights
Drag From Library
Tubular Daylight Domes
Tubular Daylight Diffusers
Interior Window
My Model
Library
Edit
ASHRAE 189.1-2009 ExtWindow ClimateZone 6
ASHRAE 189.1-2009 ExtWindow ClimateZone 7-8
Exterior Door
ExtSlabCarpet 4in ClimateZone 1-8
Interior Ceiling
Interior Door
Interior Floor
Interior Partition
Interior Wall
Interior Window
MyCustomizedExterna
Nov21CustomizedWall
Internal Source Constructions
C-factor Underground Wall Constructions
F-factor Ground Floor Constructions
Windows Ink Workspace
Type here to search
ITA
22:28
20/11/2018