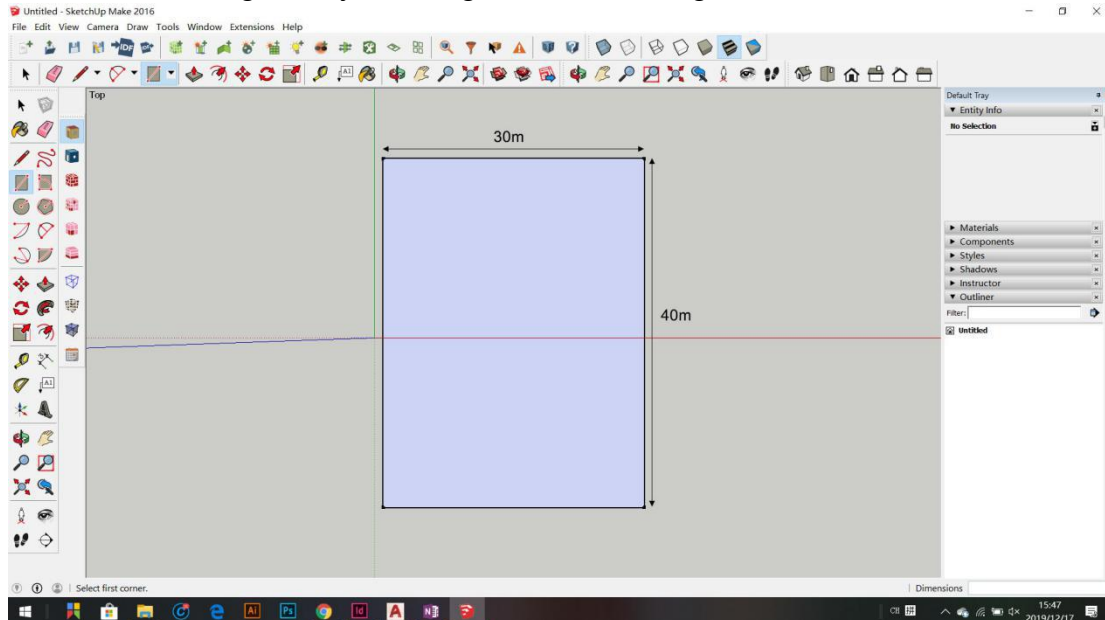
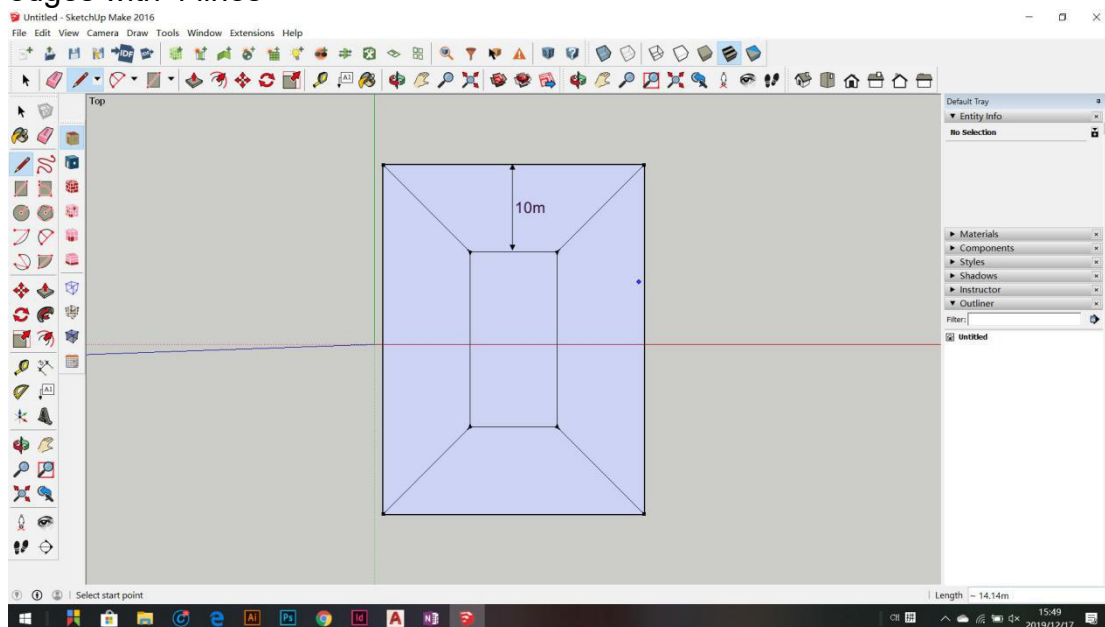


Work Process

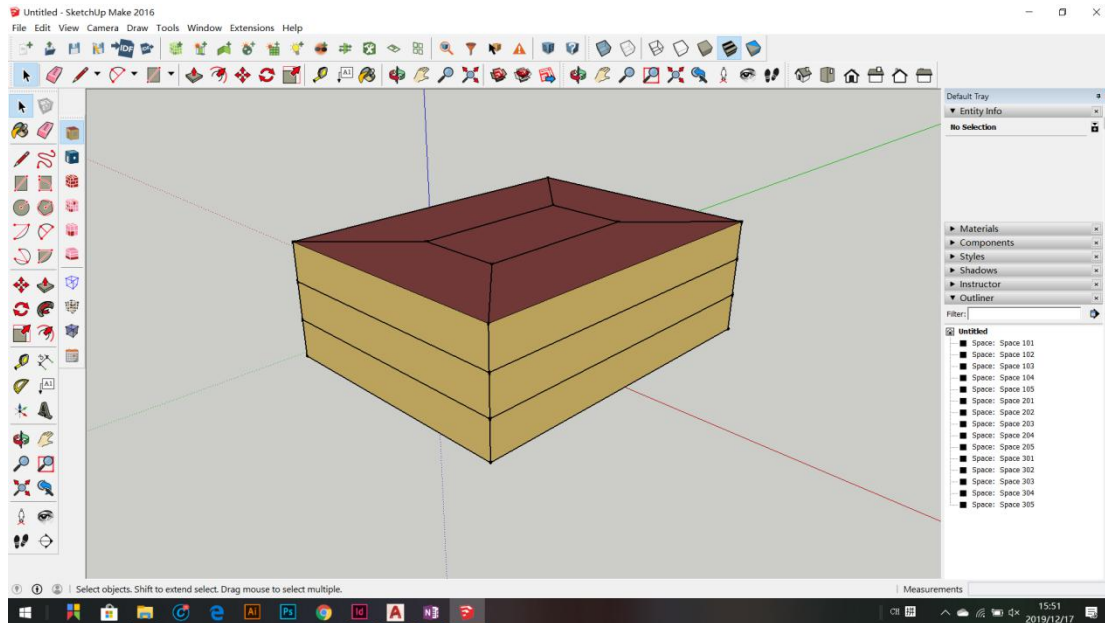
We draw the diagram by creating a 40 30 rectangle.



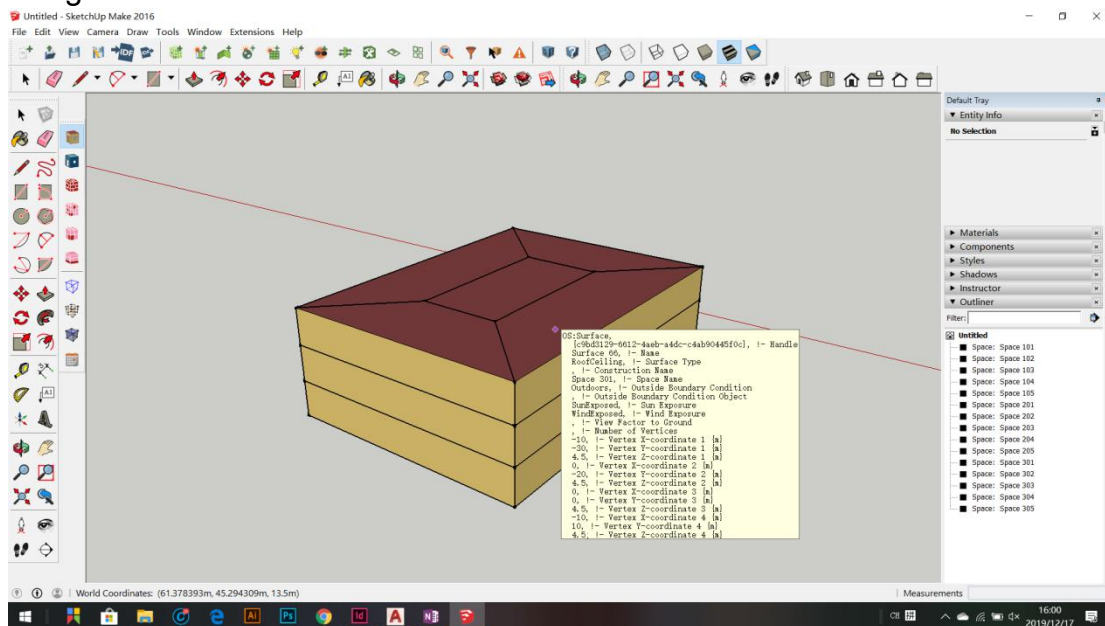
Then create another rectangle inside it (with the offset of 10 m), connect the edges with 4 lines



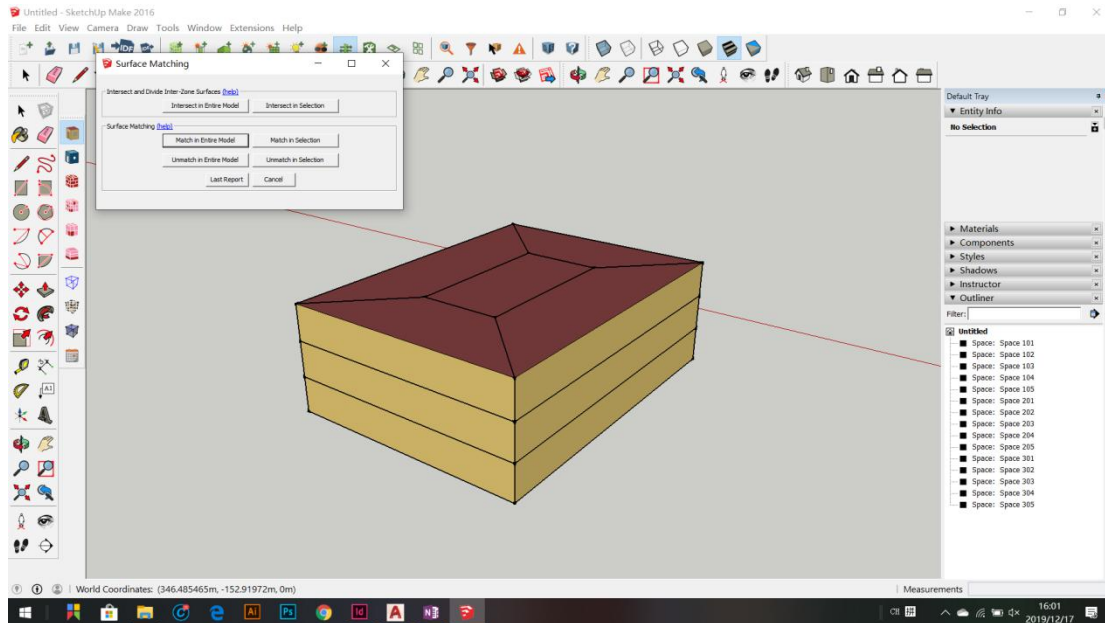
Once we made the diagram, we choose it and then click on: "create spaces from diagram and create a create a 3-storey building, each one is 4.5m high.



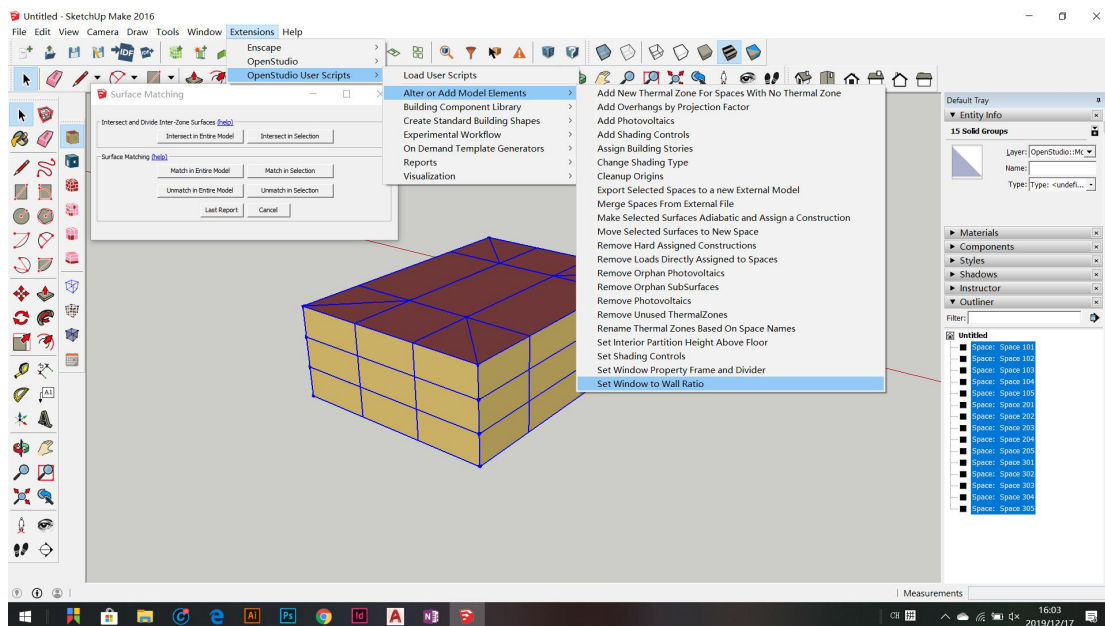
Once we created the building we use info tool to see the properties of each surface, and we will see that the boundary conditions have been automatically assigned.



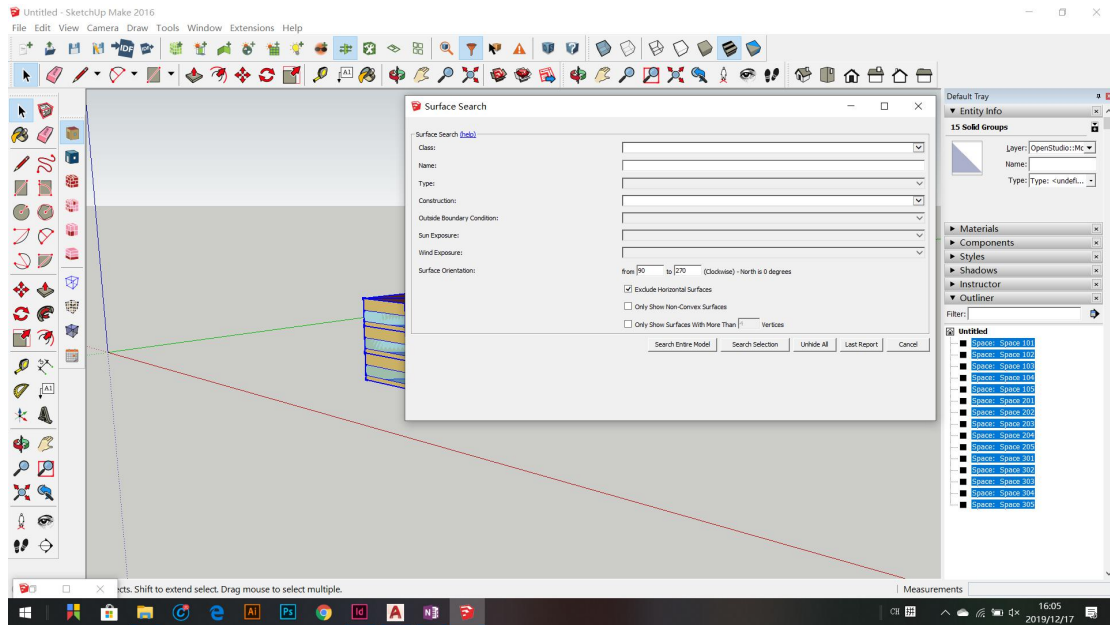
Then we click on “ surface matching ” and click on the “Match inEntire Mode”



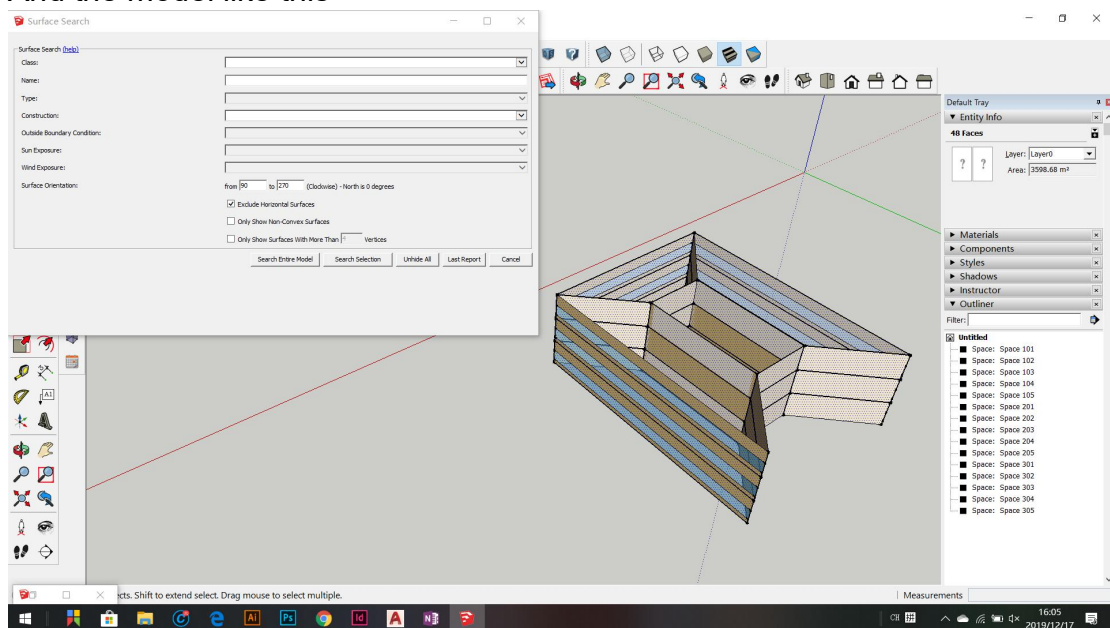
Then we should to add windows



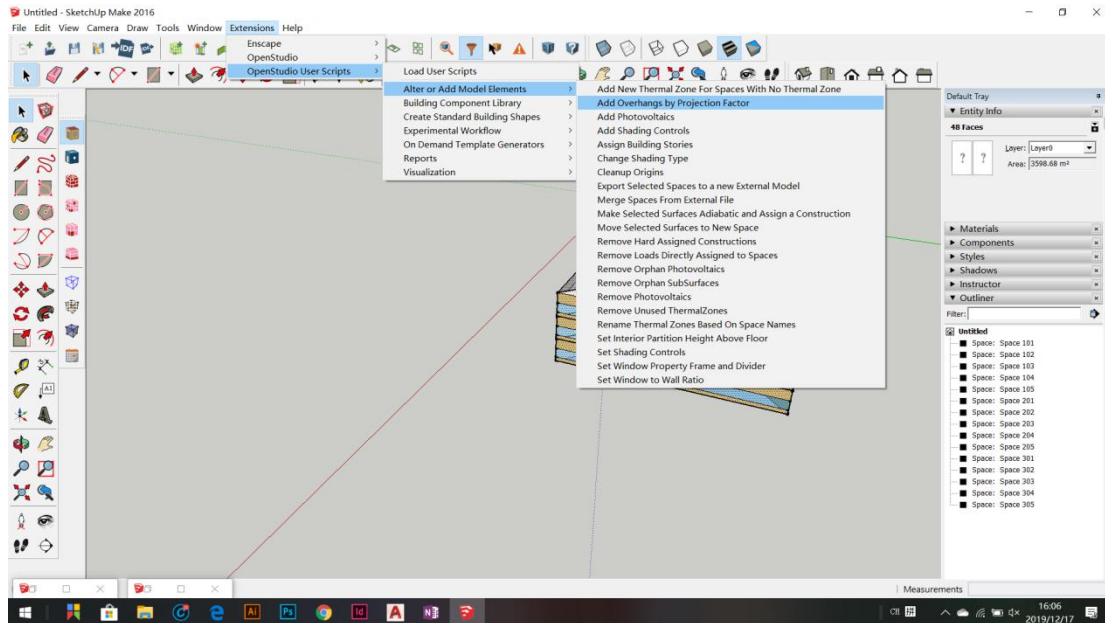
After this we need to select the entire model and click on "search surface" then we choose the the data of "Surface Orientation" from 90 to 270 to exclude the north and choose "Exclude Horizontal Surfaces" then click on the "Search Selection"



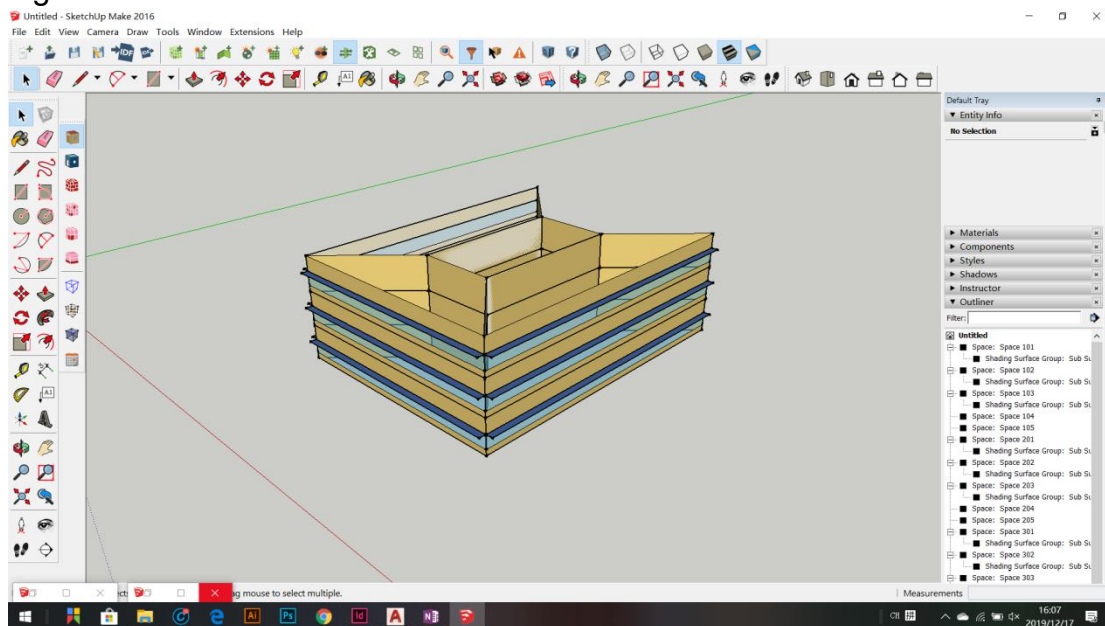
And the model like this



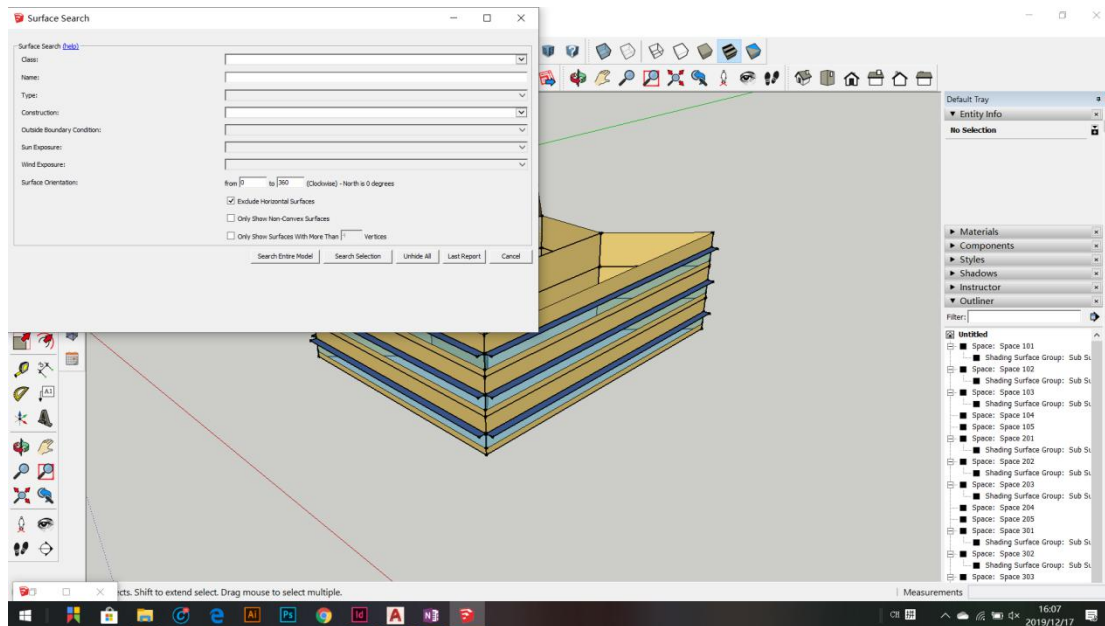
Then we need to create a light shield



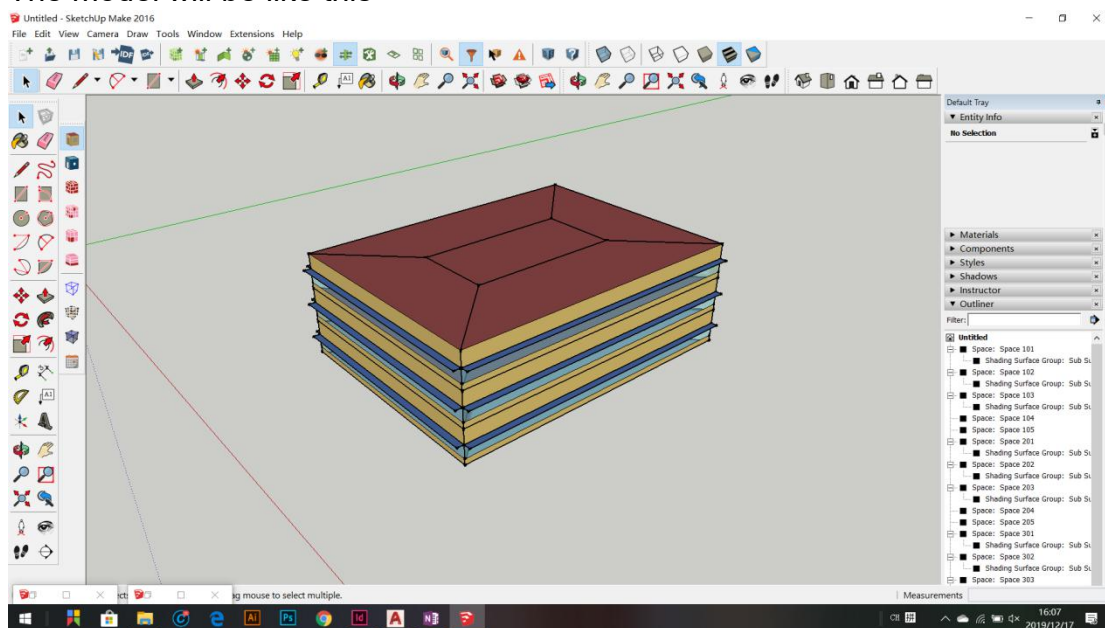
Light shield like this



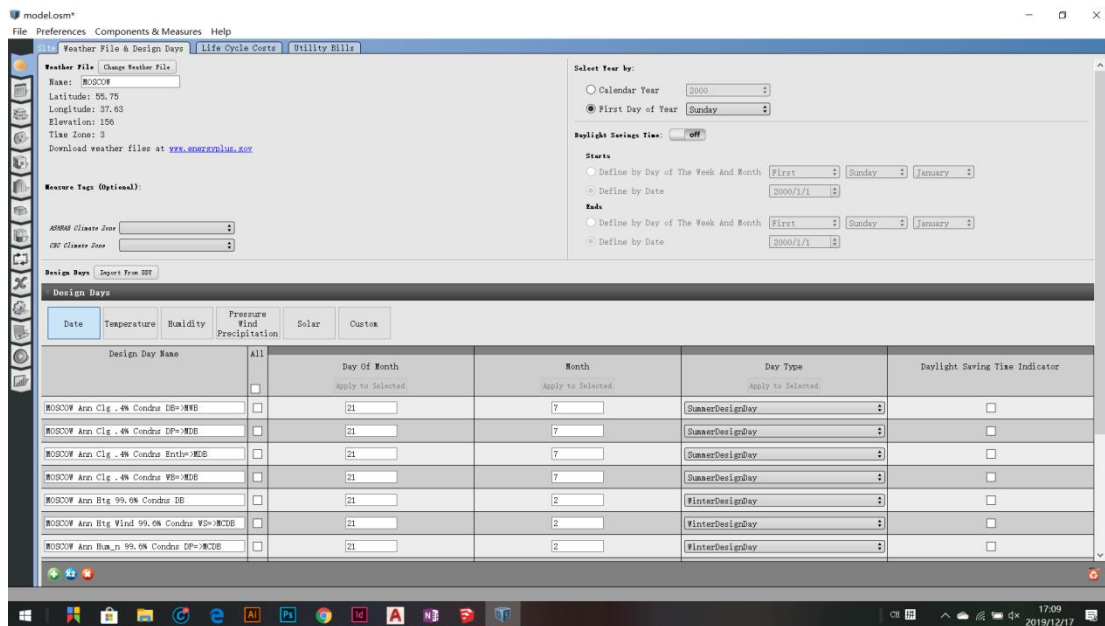
Then we should choose 0-360 surfaces and click on the “Unhide ALL” so that we would go back to the previous selection.



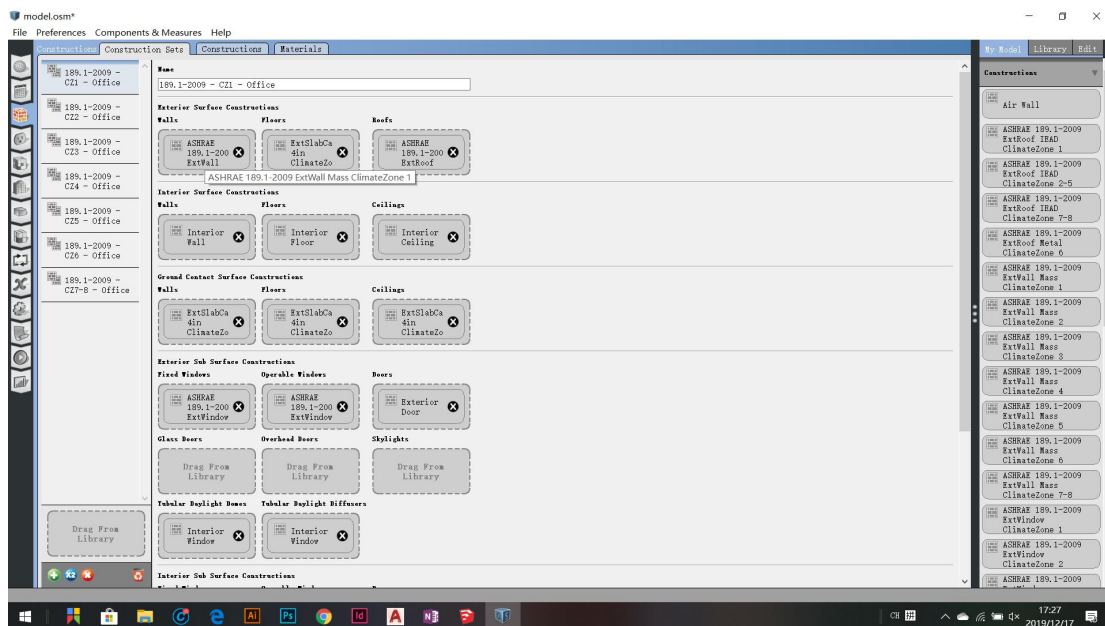
The model will be like this



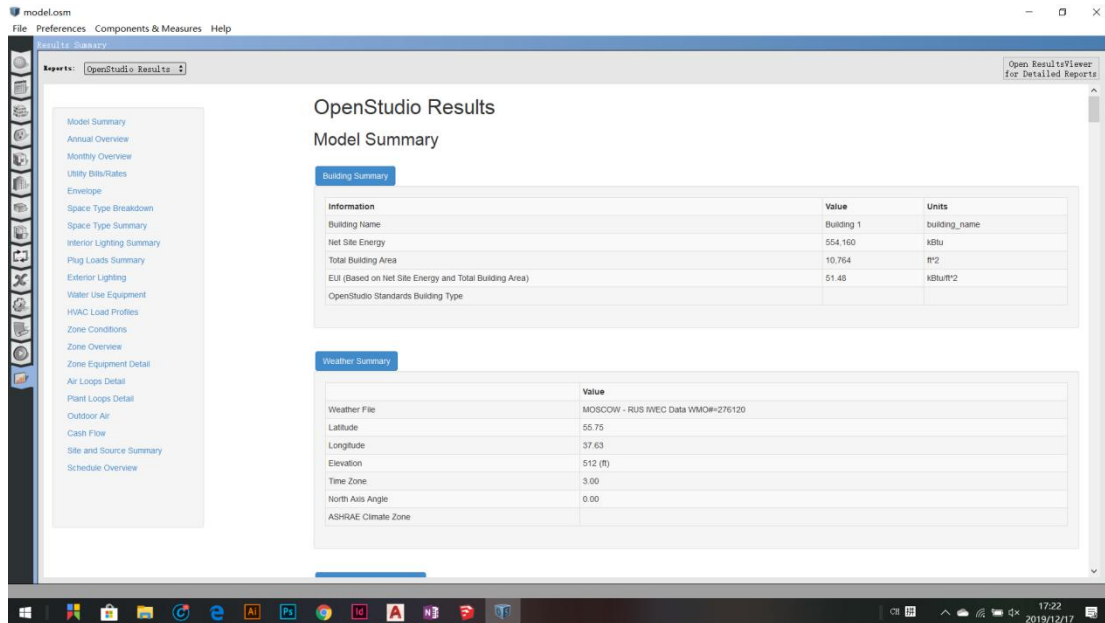
Now we choose the spaces of each thermal zone and we add specifications



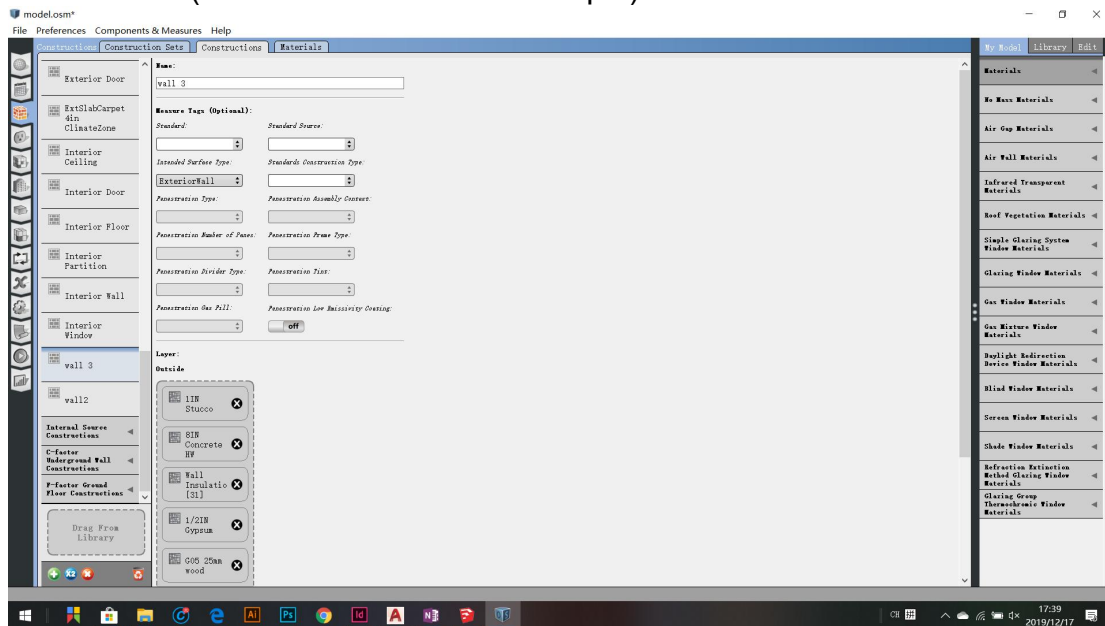
Then we choose the material of the wall



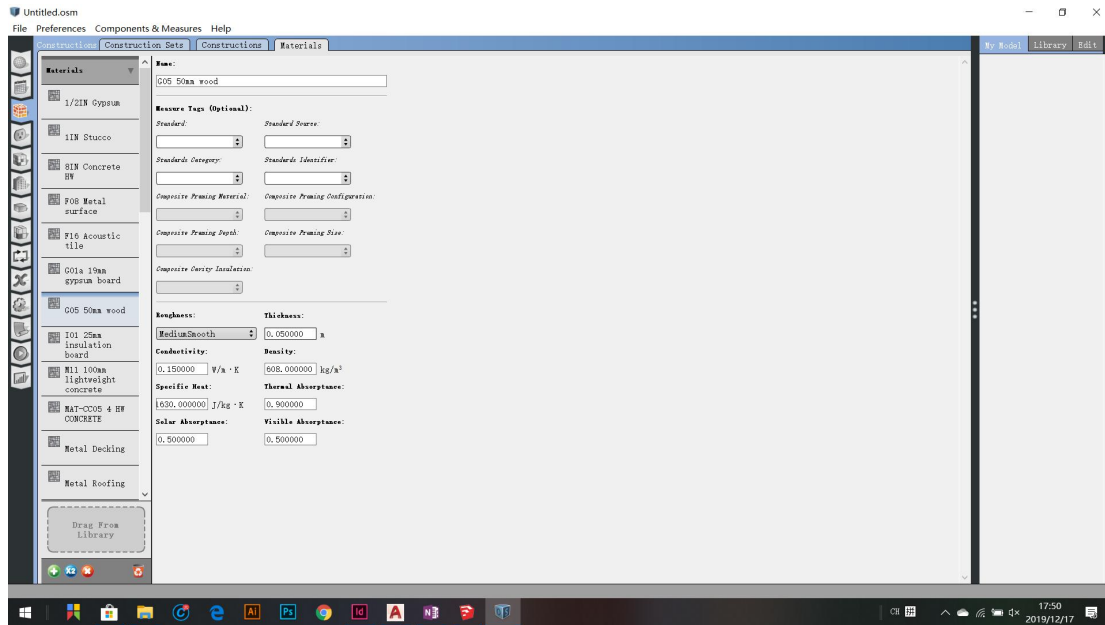
Next we simply run the model and get data



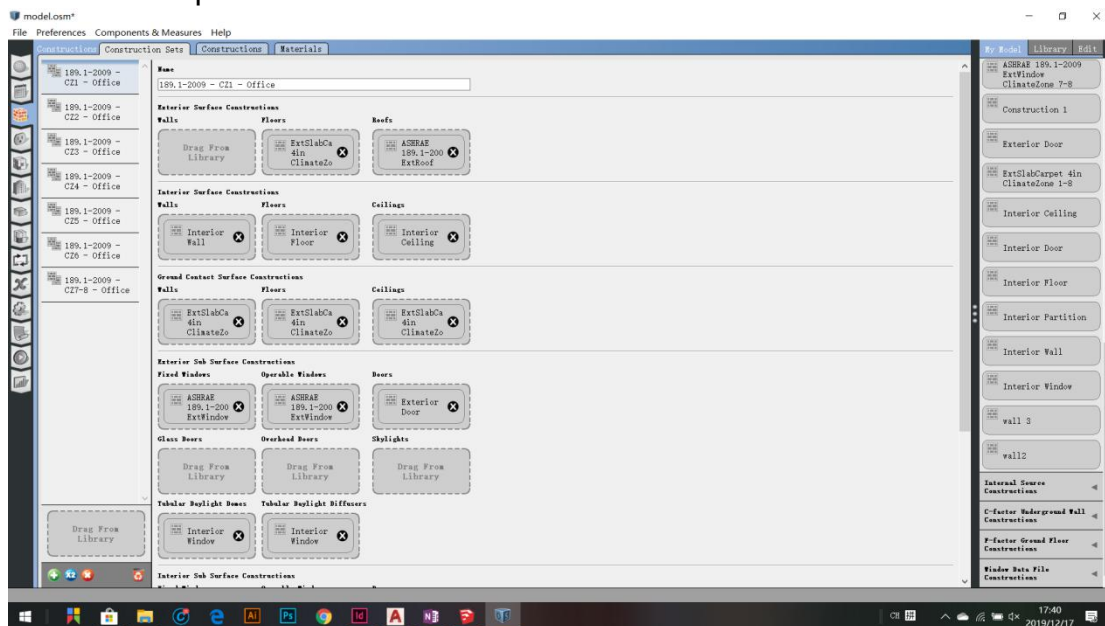
As for the different wall materials, we create a new name of wall, and put the material in it.(Take Piacenza as an example)



We change the thickness of the wall here



And then we put “wall 3” into it and run the soft



And we have the data

modelosm

FilePreferencesComponents & MeasuresHelp

Results Summary

Reports: OpenStudio Results 2

Open ResultsViewer for Detailed Reports

Model Summary

Annual Overview

Monthly Overview

Utility Bills/Rates

Envelope

Space Type Breakdown

Space Type Summary

Interior Lighting Summary

Plug Loads Summary

Exterior Lighting

Water Use Equipment

HVAC Load Profiles

Zone Conditions

Zone Overview

Zone Equipment Detail

Air Loops Detail

Plant Loops Detail

Outdoor Air

Cash Flow

Site and Source Summary

Schedule Overview

OpenStudio Results

Model Summary

Building Summary

Information	Value	Units
Building Name	Building 1	building_name
Net Site Energy	420.480	kBtu
Total Building Area	10.764	m²
EUI (Based on Net Site Energy and Total Building Area)	39.06	kBtu/m²
OpenStudio Standards Building Type		

Weather Summary

	Value
Weather File	Piacenza - ITA IGGG WMO#-160640
Latitude	44.92
Longitude	9.73
Elevation	440 (ft)
Time Zone	1.00
North Axis Angle	0.00
ASHRAE Climate Zone	

Windows Taskbar

System Tray

17:33 2019/12/17