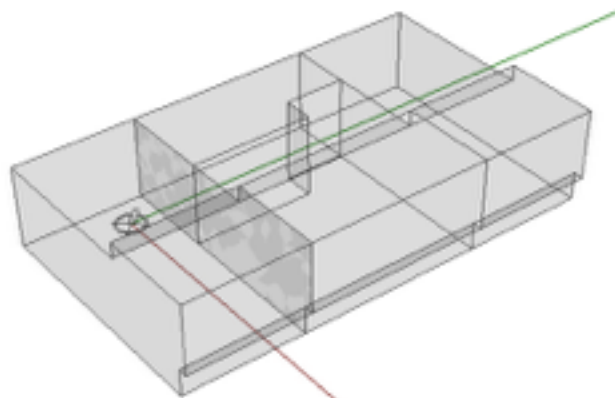
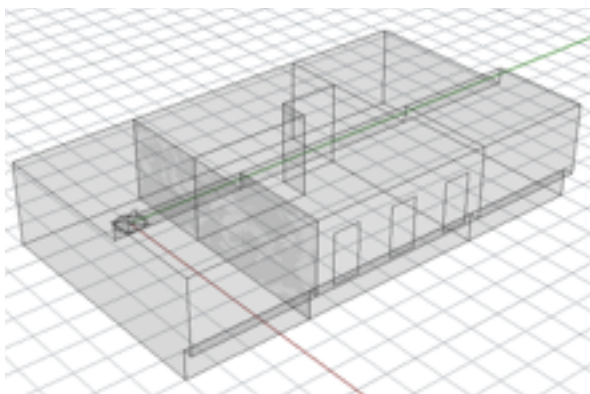


0.0) Baseline conditions the room is considered with surrounding thermal zones: a corridor and 2 rooms the sides.



Adaptive comfort is 42%



glazing percentage is 30%

windows height is 160 cm

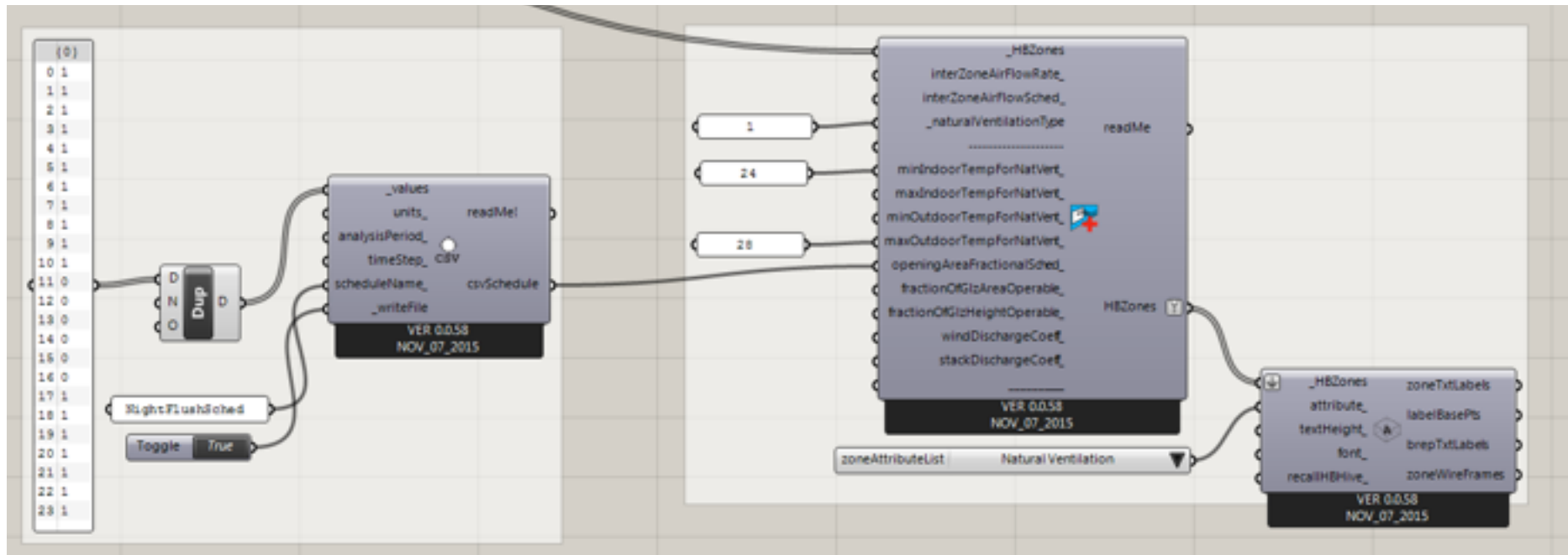
windows sill height is 100 cm

Spatial Daylight Autonomy is 80%

Adaptive comfort is 33%



1.0) Natural ventilation

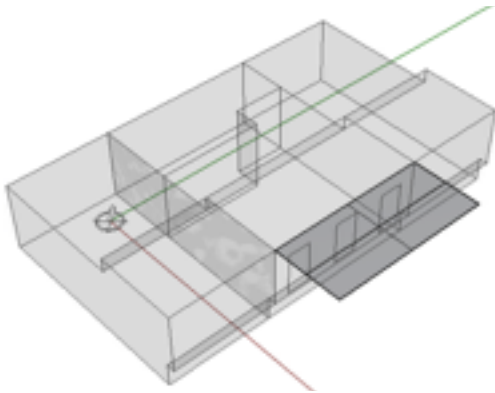


Adaptive comfort is 69%



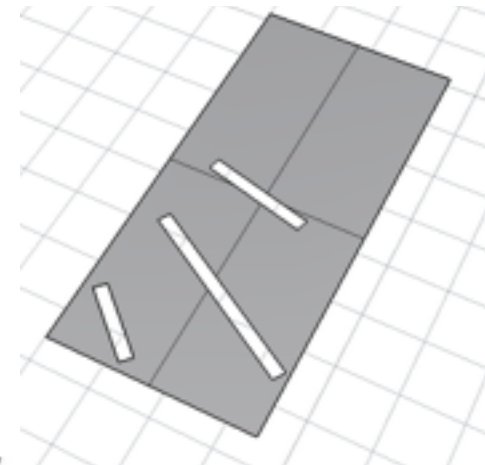
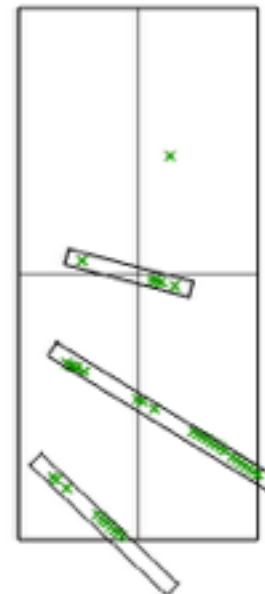
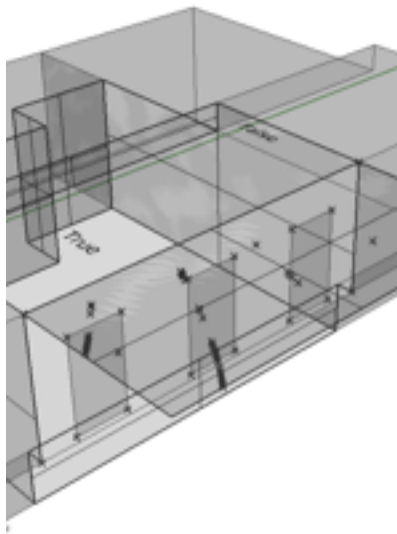
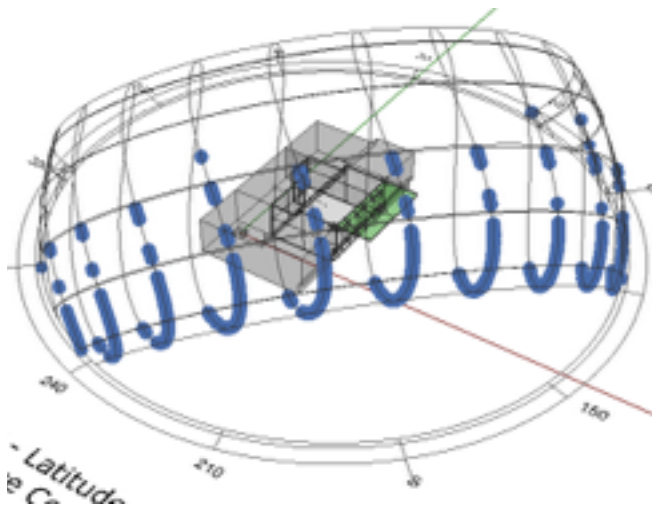
2.0) Shading

I created a basic horizontal surface to screen the facade from the sun



Adaptive comfort is 73%

Then, I used the sunpath to calculate the position of the sun when the indoor conditions are too cold for the occupants. I trimmed the surface accordingly.



although several attempts were made, it doesn't make any difference. Adaptive comfort is still 73%.