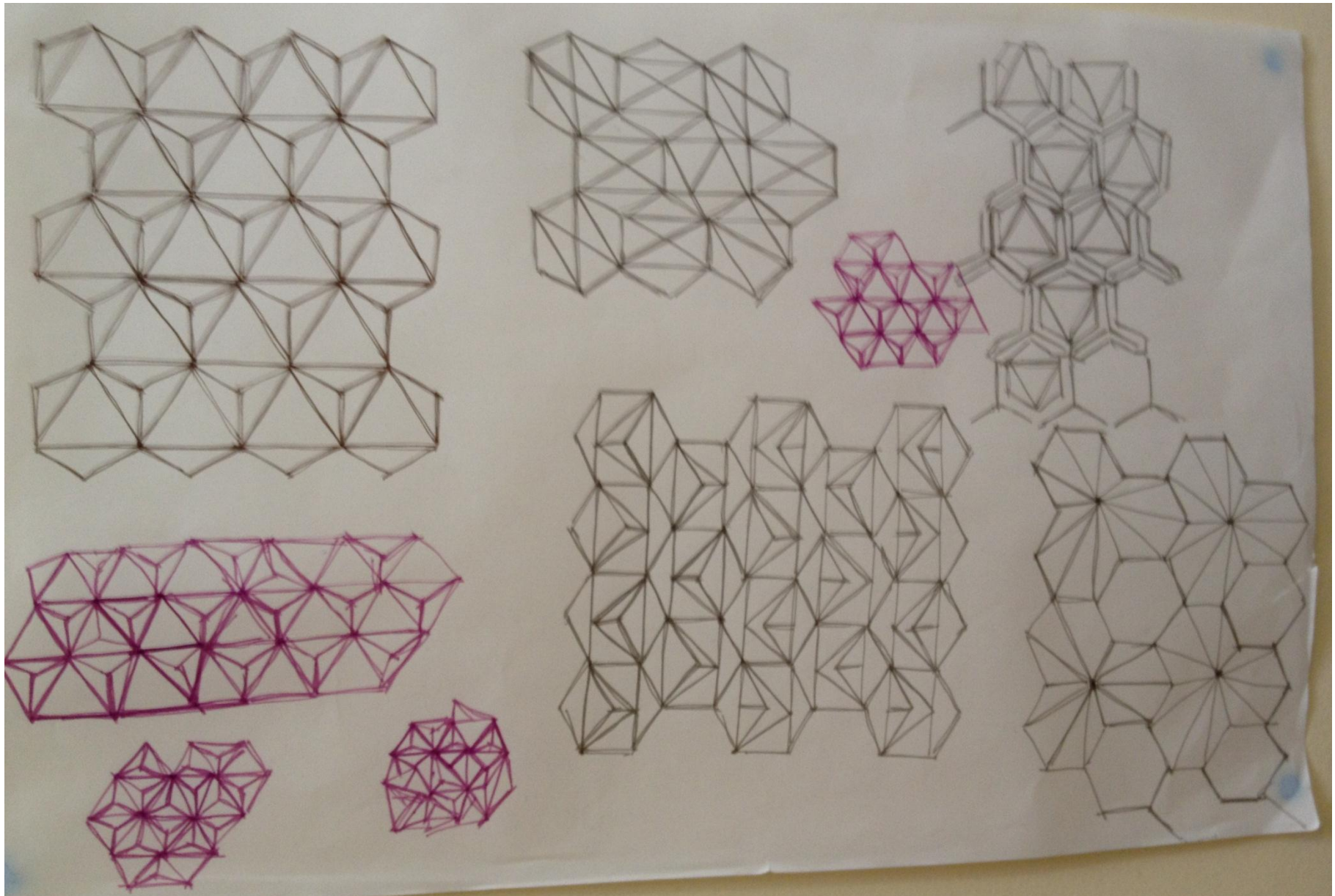


RULE BASED MODELLING

PARAMETRIC SCREEN

SARGAM TANDON

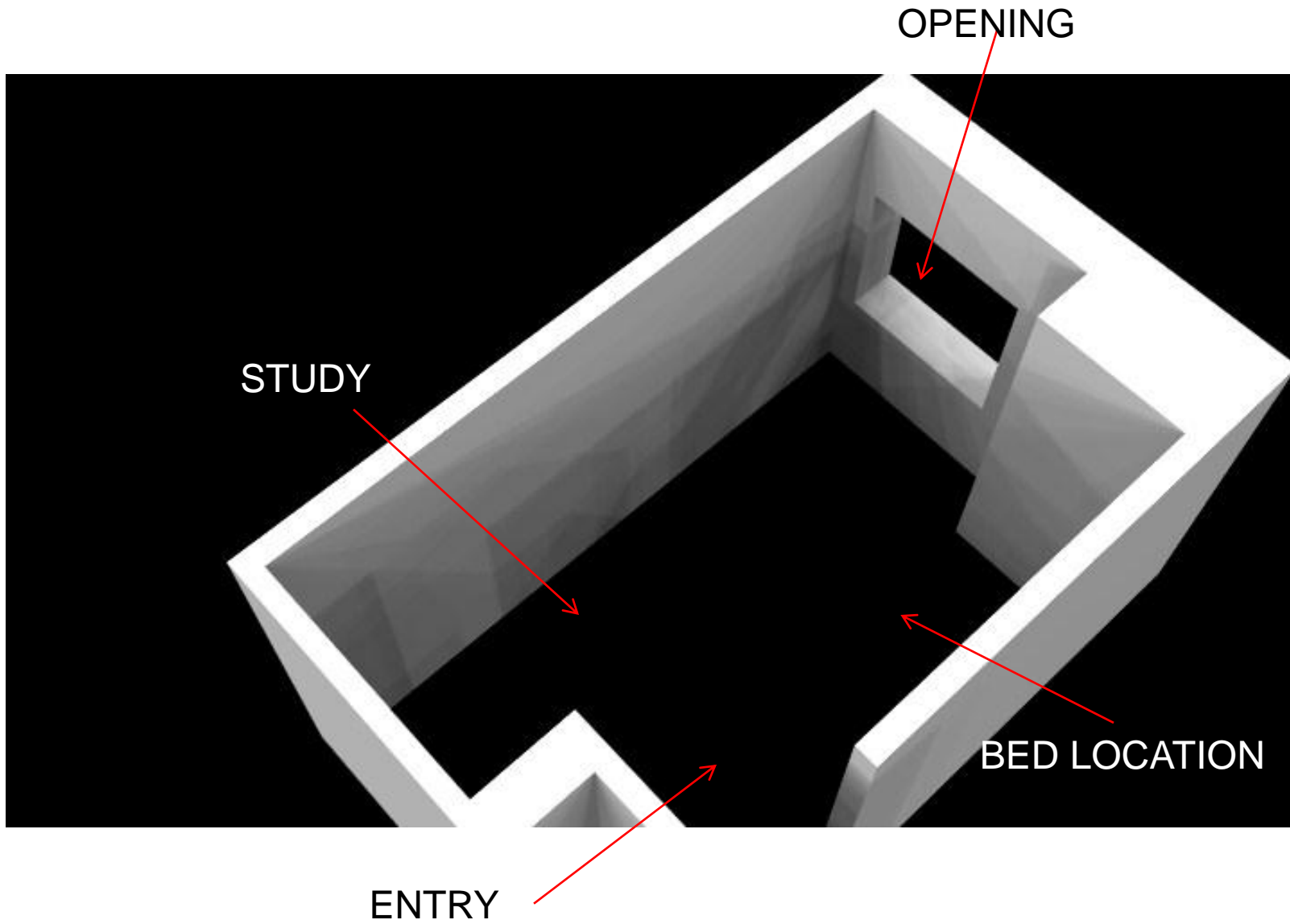
CONCEPT SKETCHES



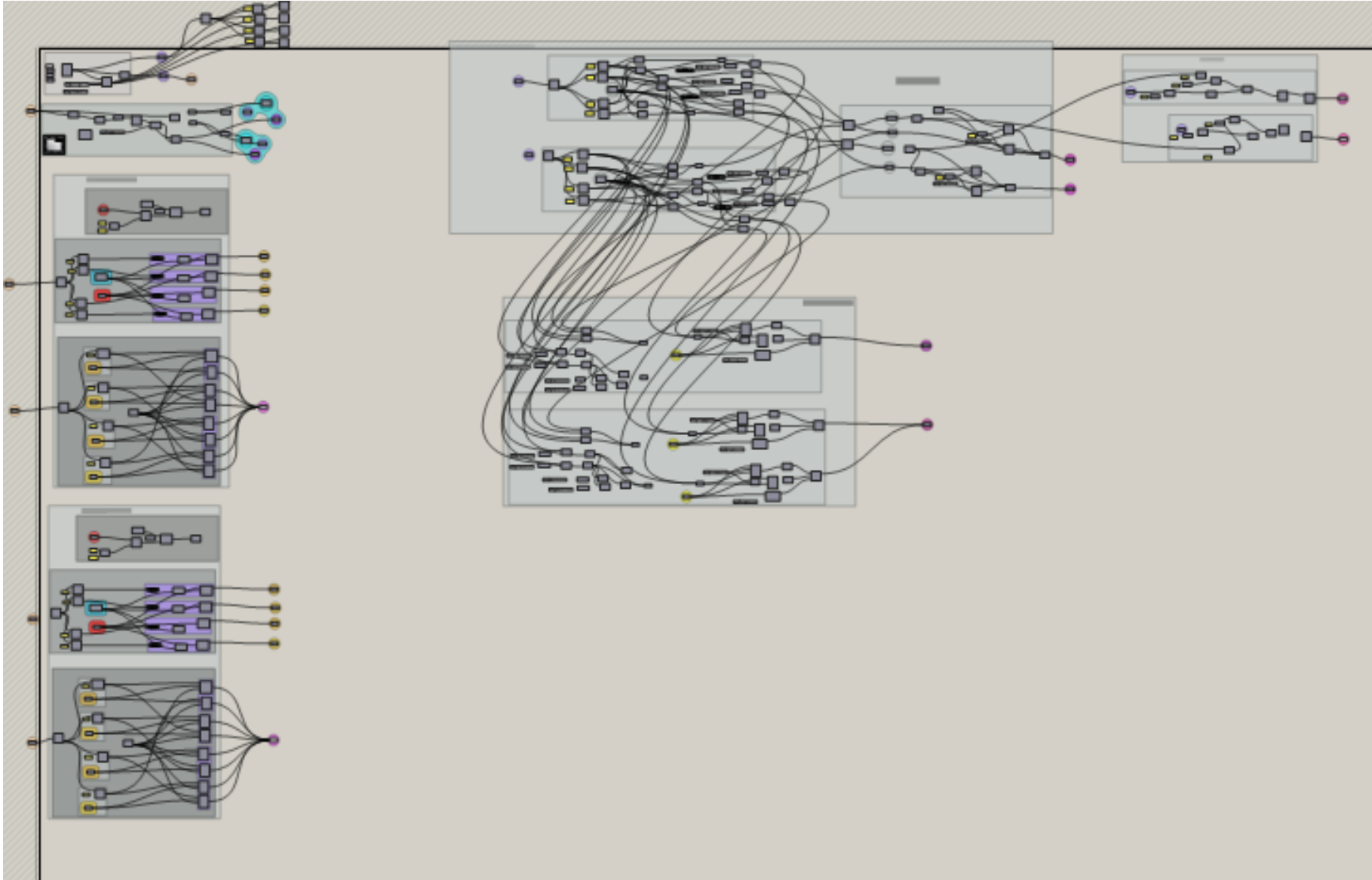
This window screen is designed for an apartment located in Downtown Manhattan, in a high rise building. Due to the density of sky scrapers in the surroundings, the rooms do not get any direct sunlight but are faced with issues of privacy with every apartment looking into each other. This screen is designed as a privacy screen, to control direct views of the apartment from the surrounding buildings. It is designed as a modular cell system based on the Egg crate tectonic. The opening aperture and depth of the individual components can be controlled in order to screen off specific views of the room from the outside, at different times of the day, based on the users activity.

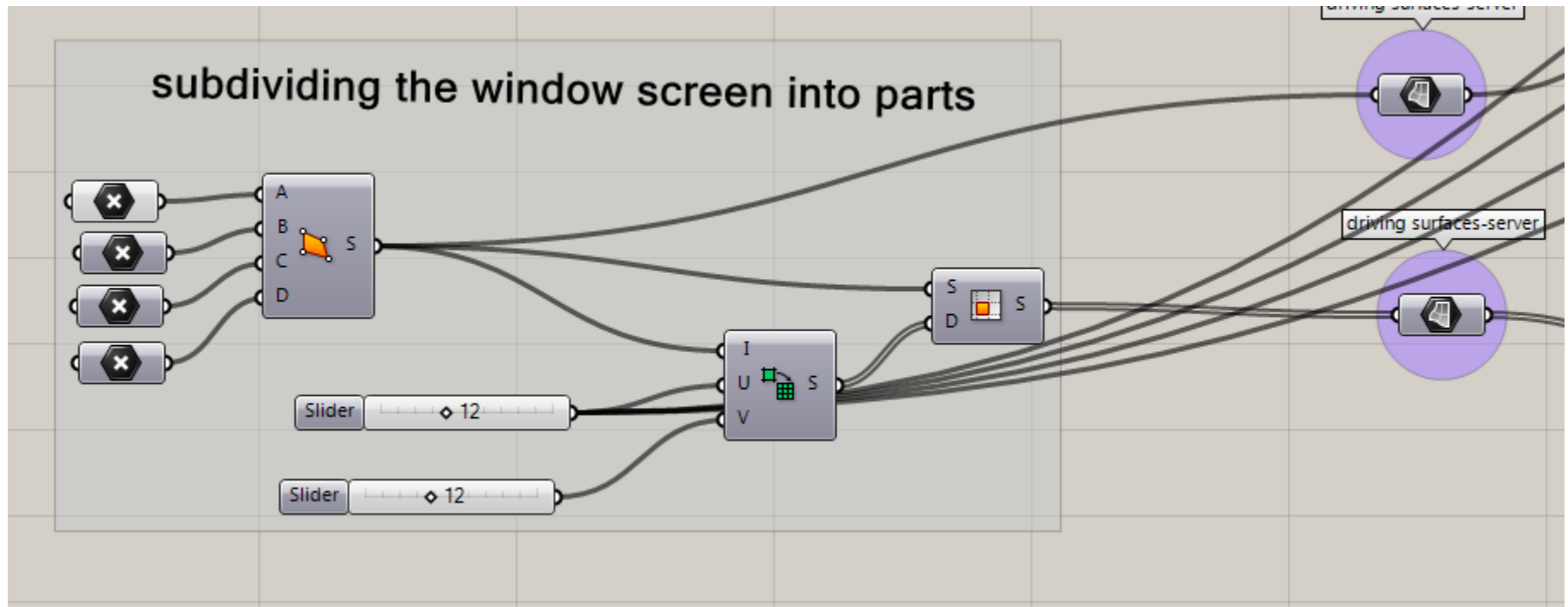
The opening formed by the combinational logic of these cells provides interesting views. As much as the actual performance, being a modular system, the formal characteristics can be varied by adapting the primitive unit of the overall system.

It can also act as an indirect lighting filtration device. It calibrates the window opening, modulates the light and thus enables qualitative spatial effects.



DEFINITION

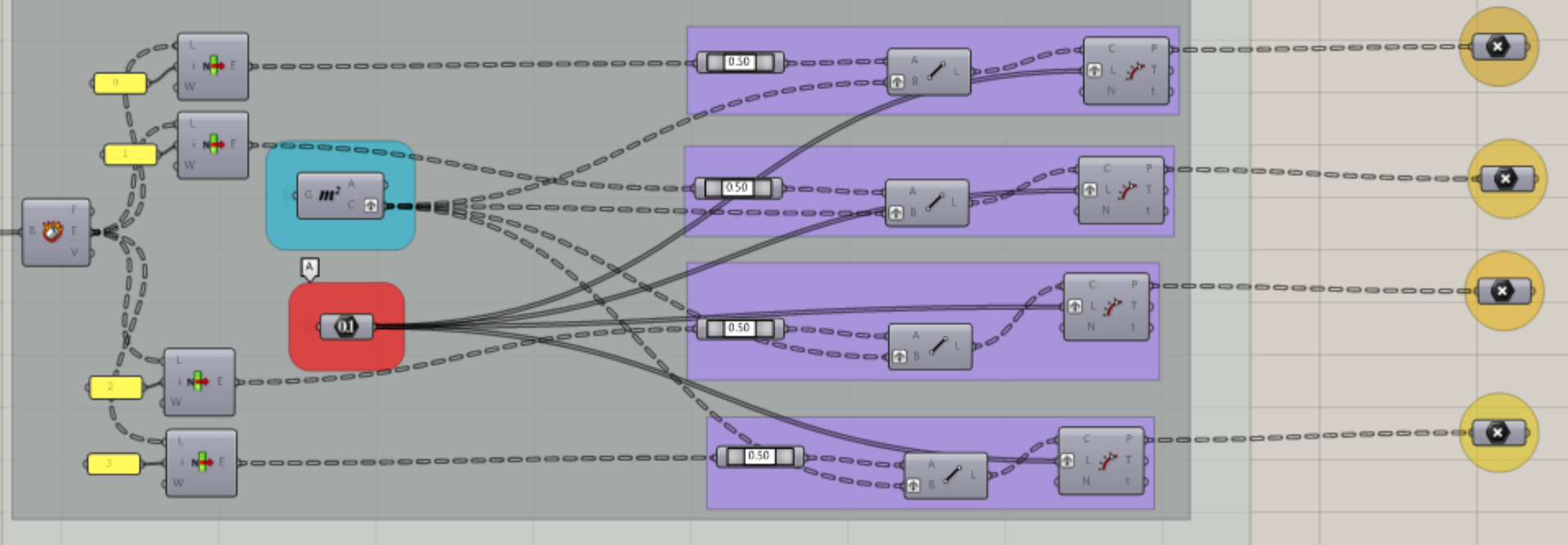




Create the window surface and sub divide it into components.

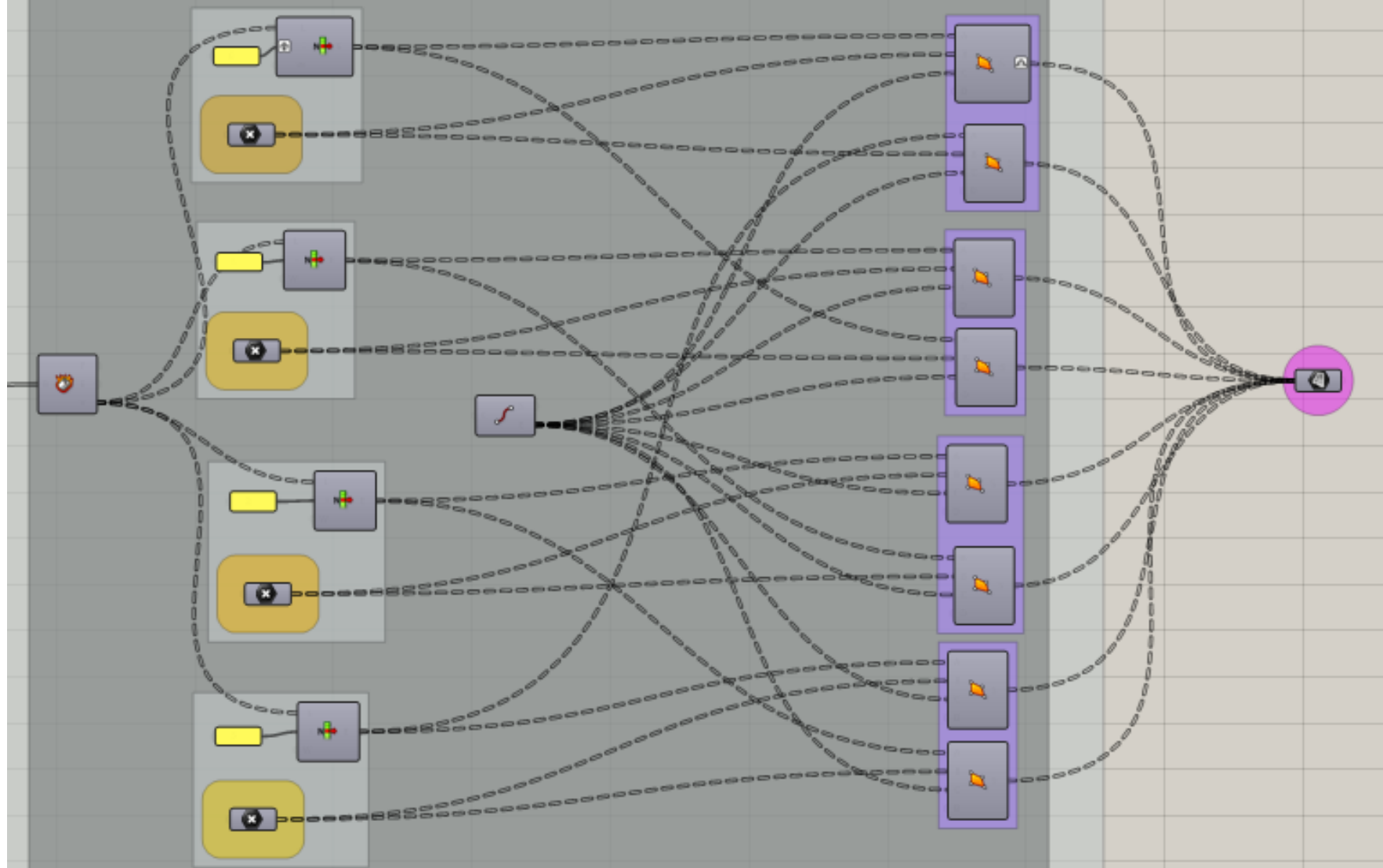
Creating an attractor point, dispatch it into two lists of areas to find the center point, numbers and lofted surfaces

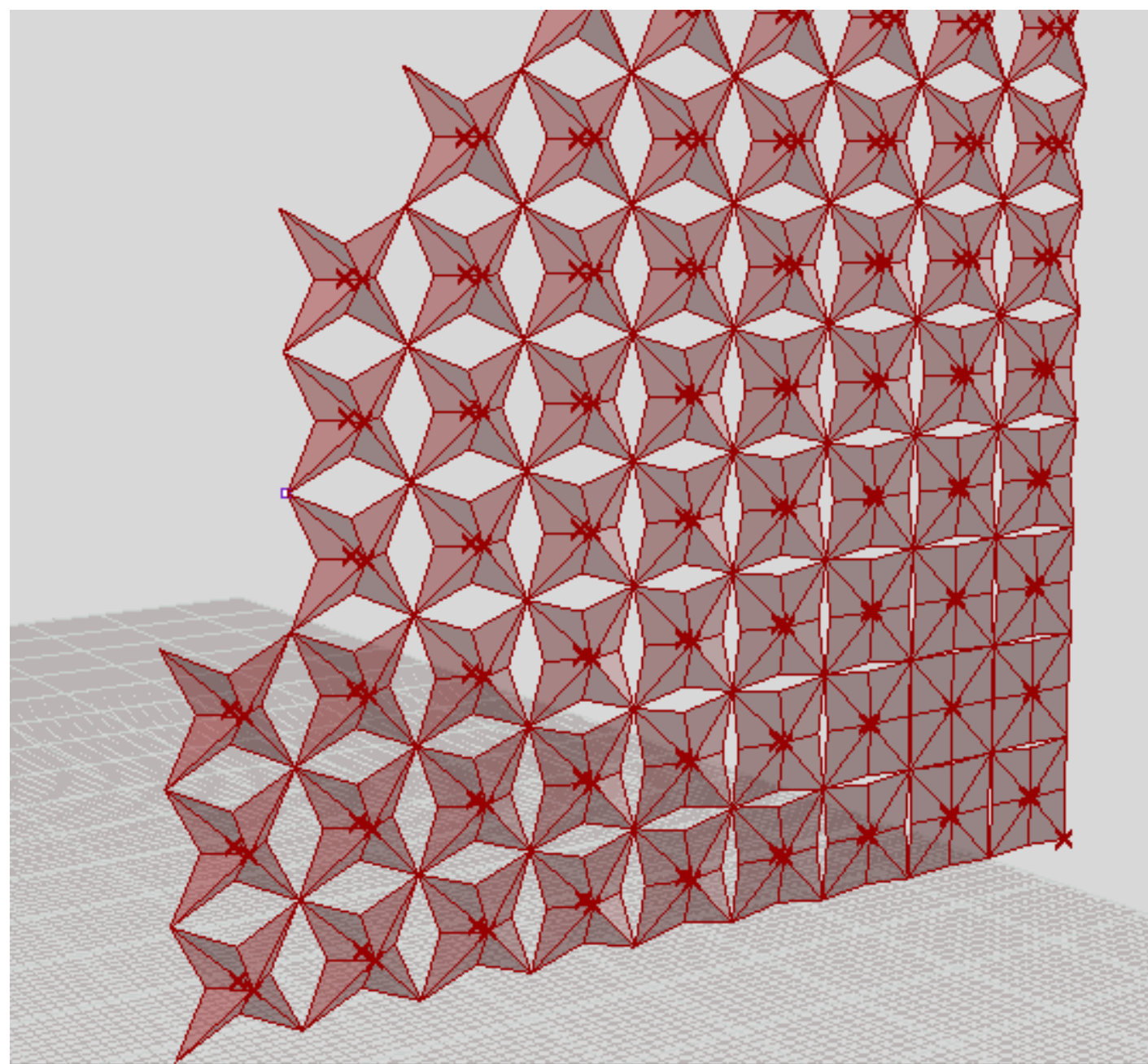
FOLDS BASED ON DISTANCE FROM THE CENTER



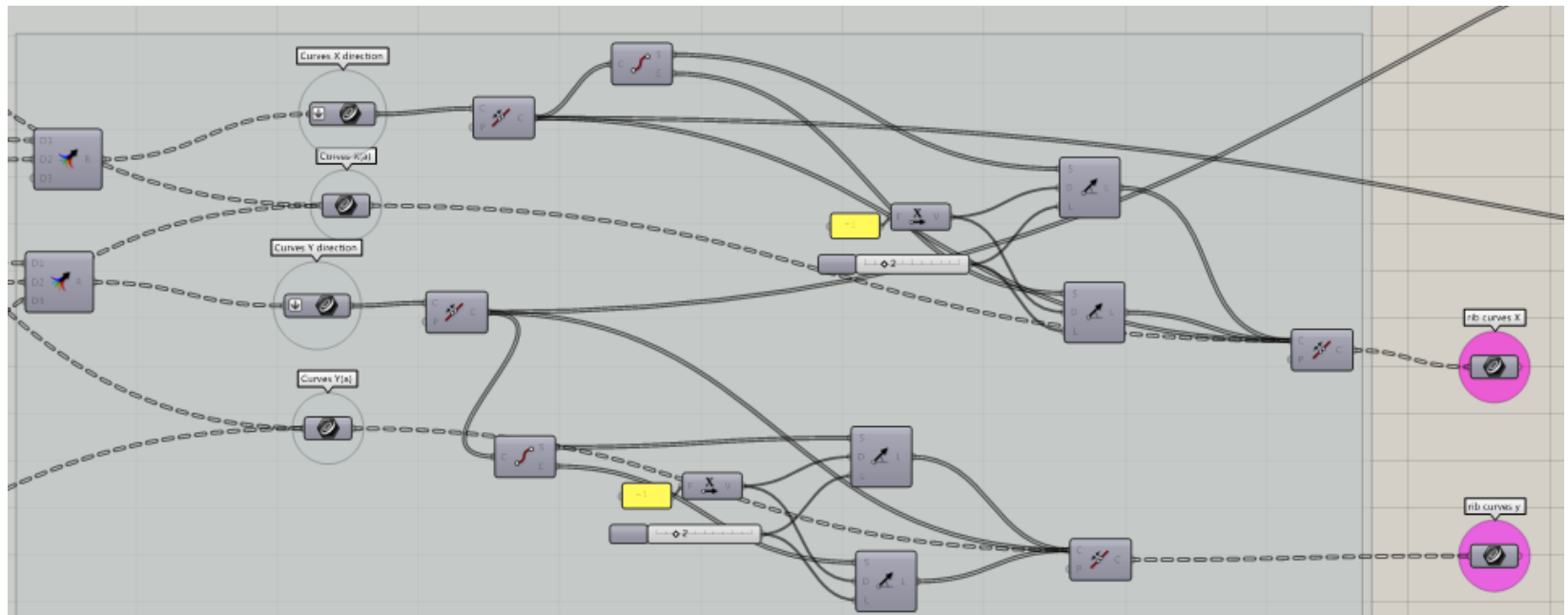
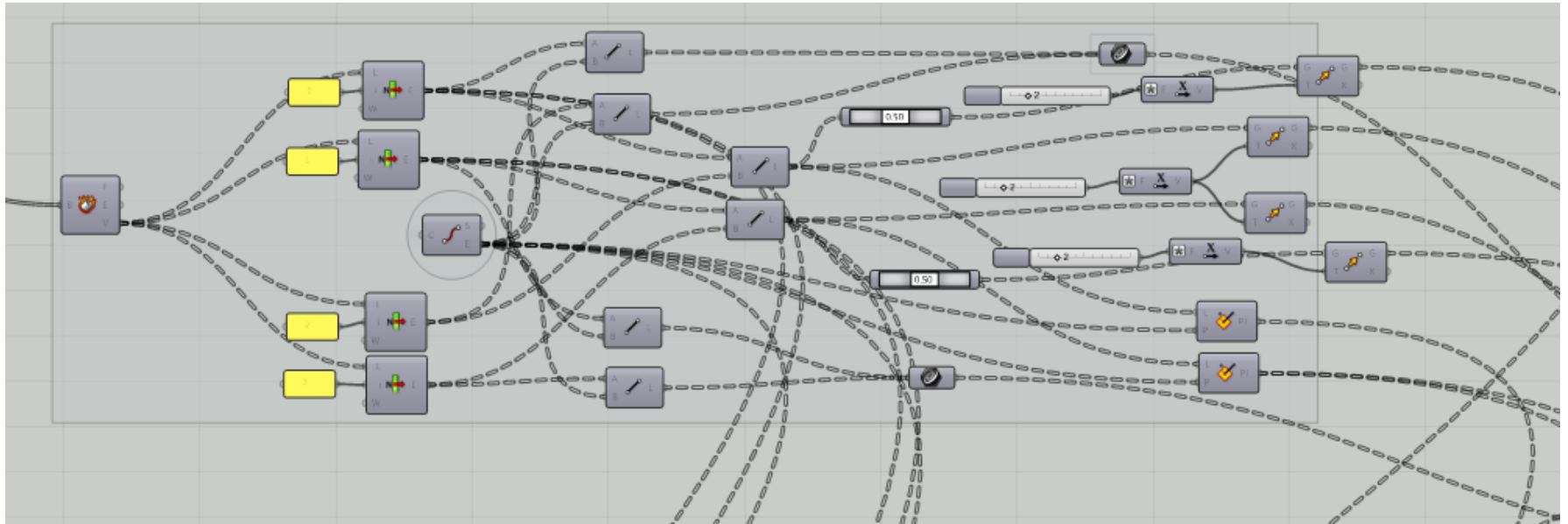
Creating cells

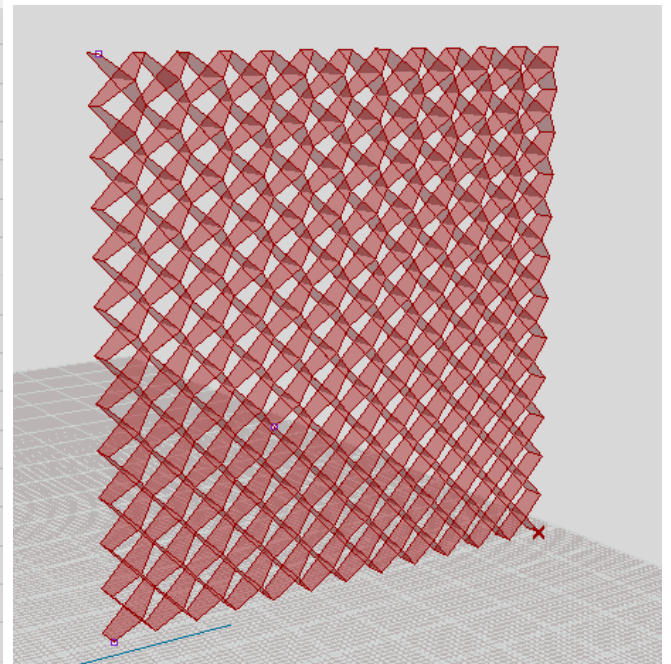
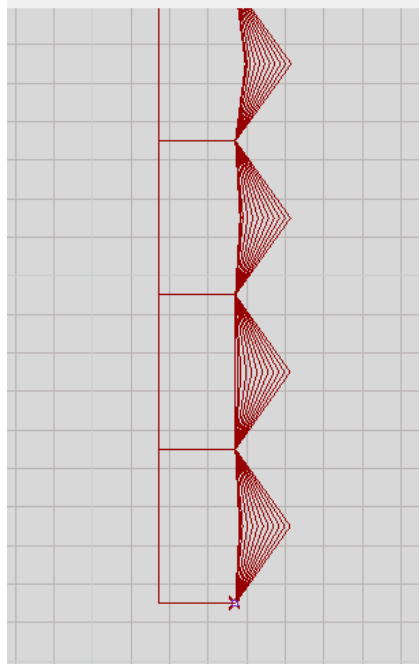
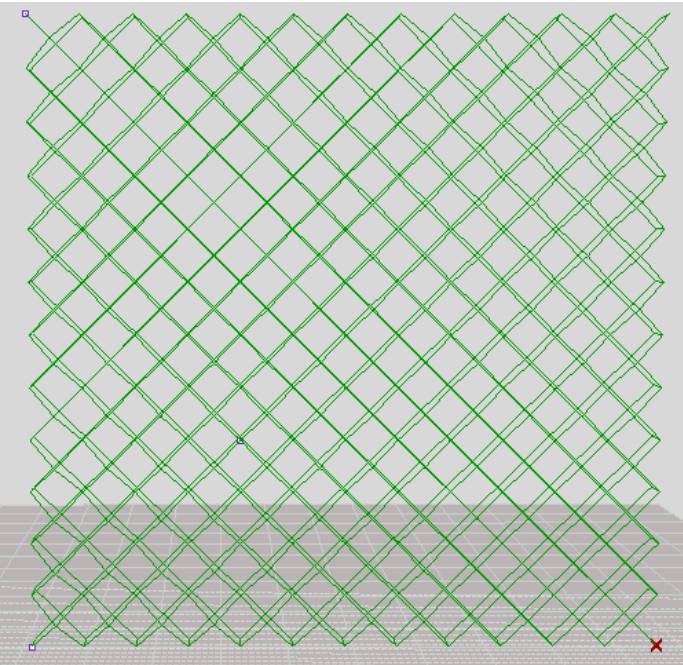
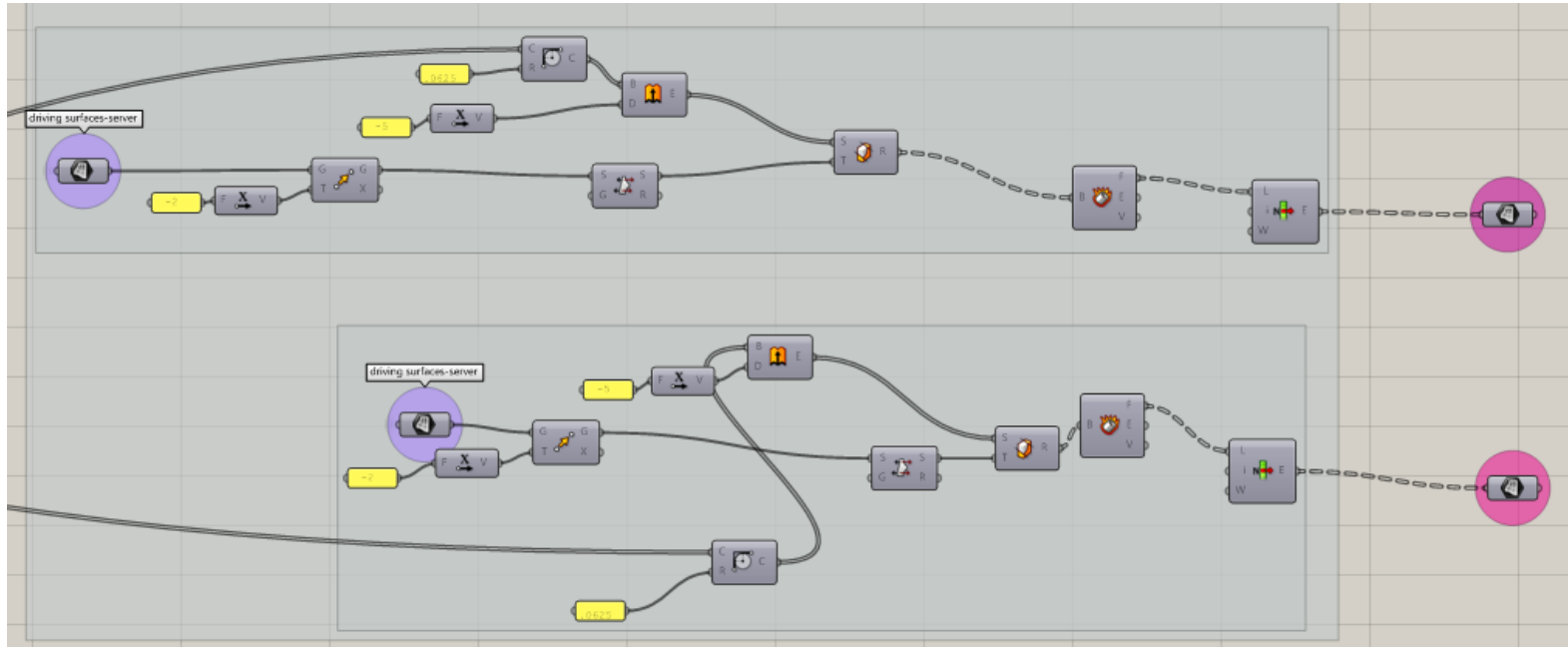
CREATING TRIANGULAR FACES

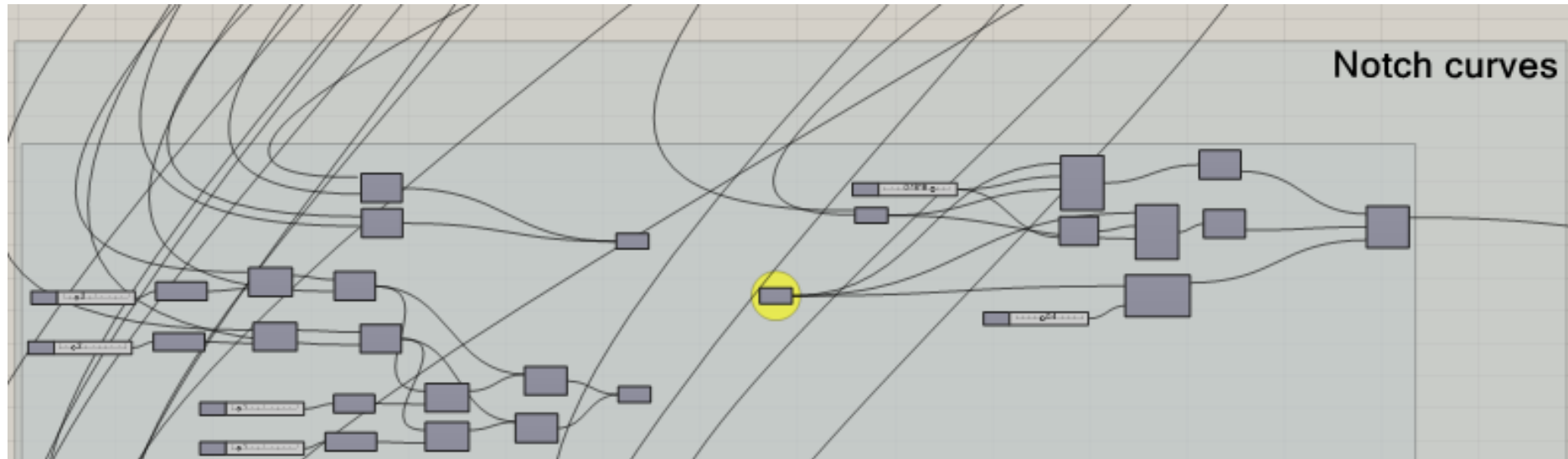




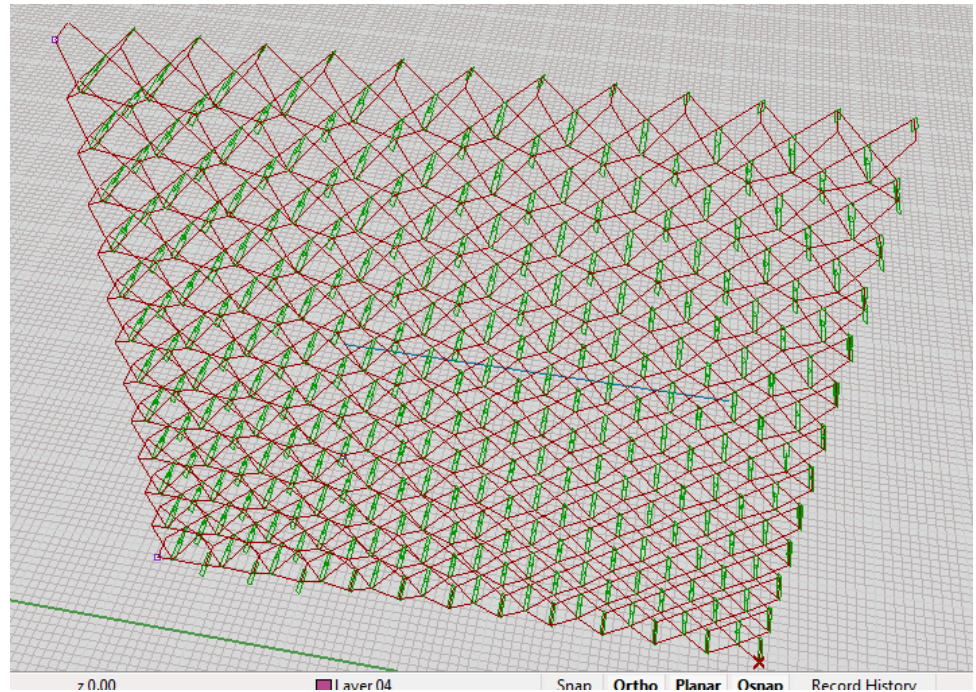
Creating Ribs for Notching







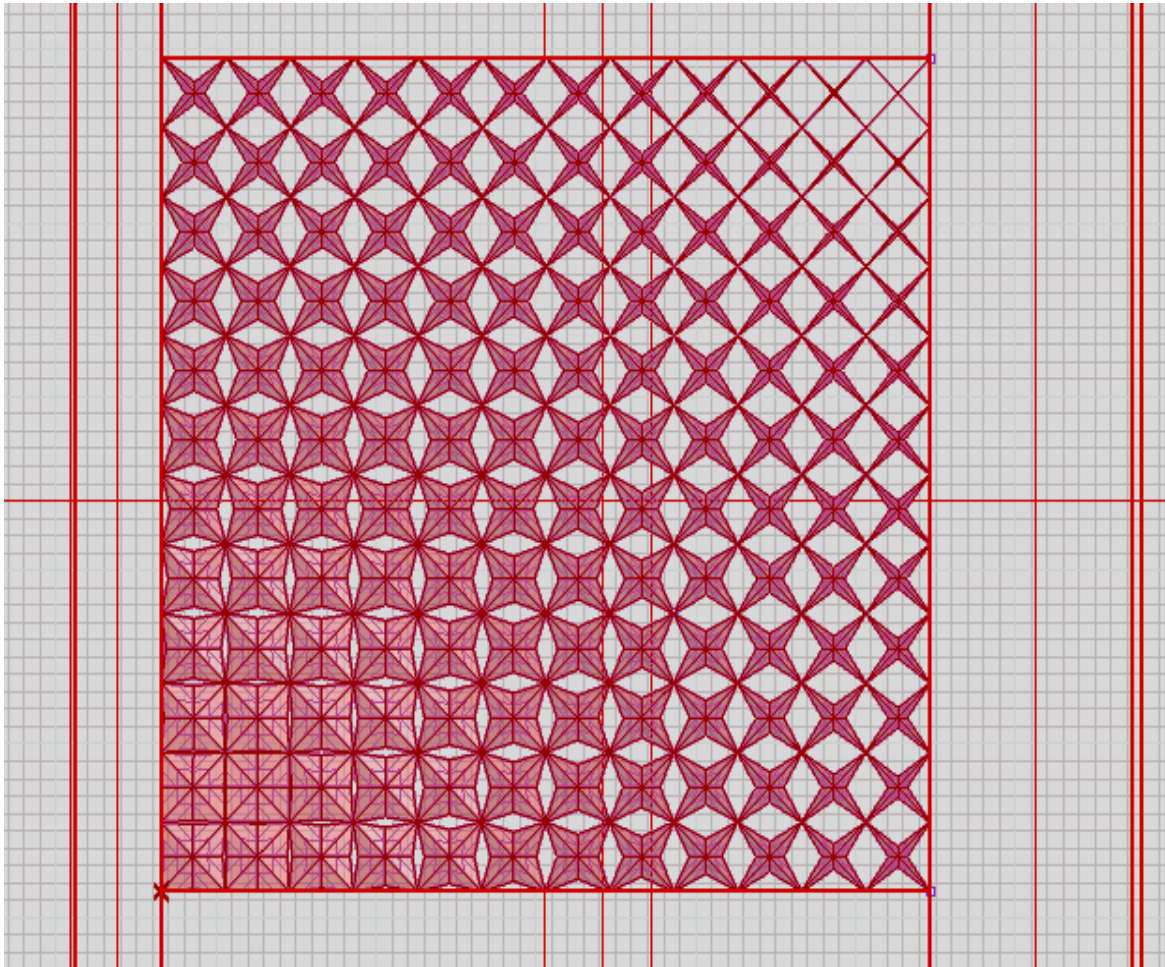
Creating Notches



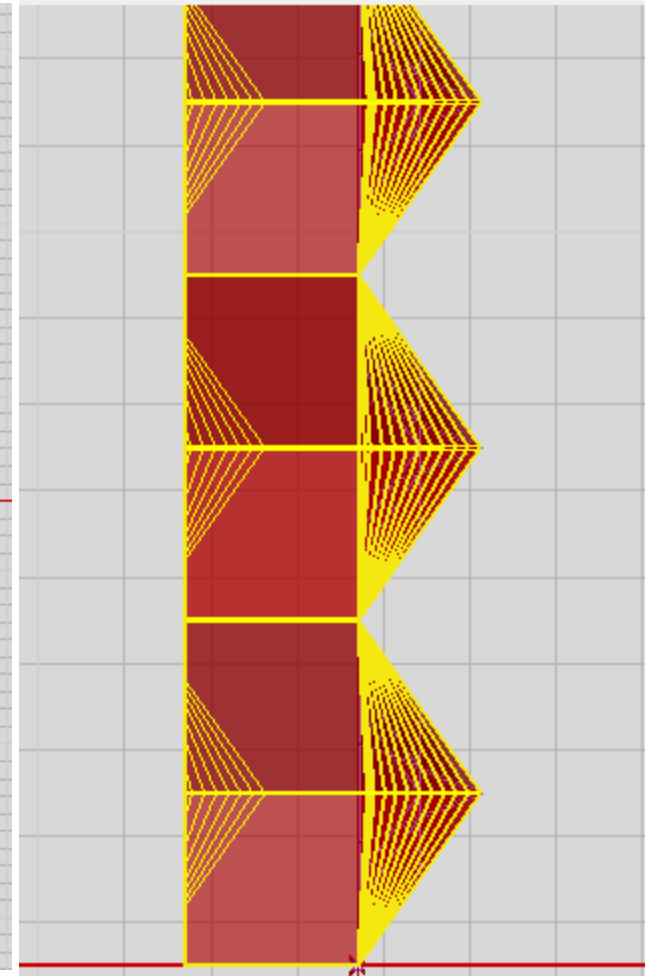
SCREEN 1

Time of the day : NIGHT

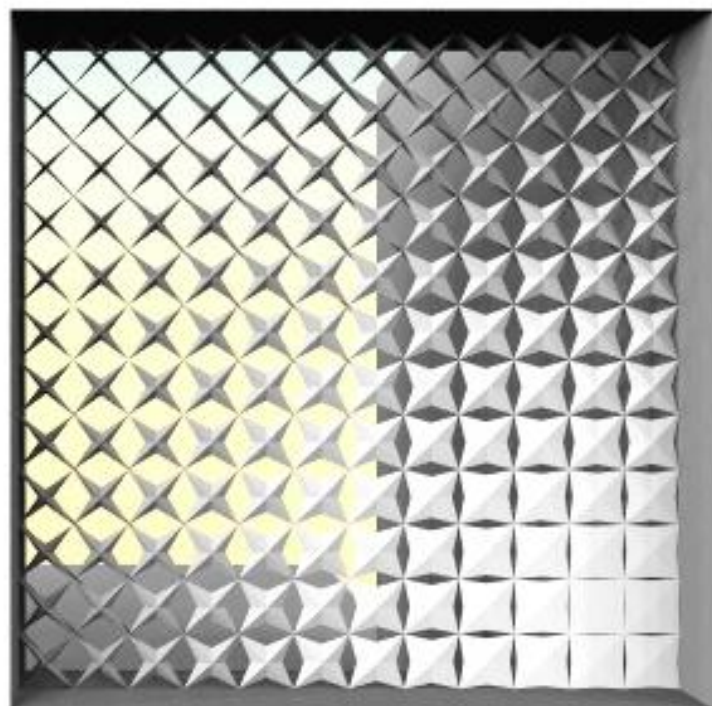
- **NO OF CELLS IN UV DIRECTION = 12**
- MD SLIDER POINT = 0.10; 0.15

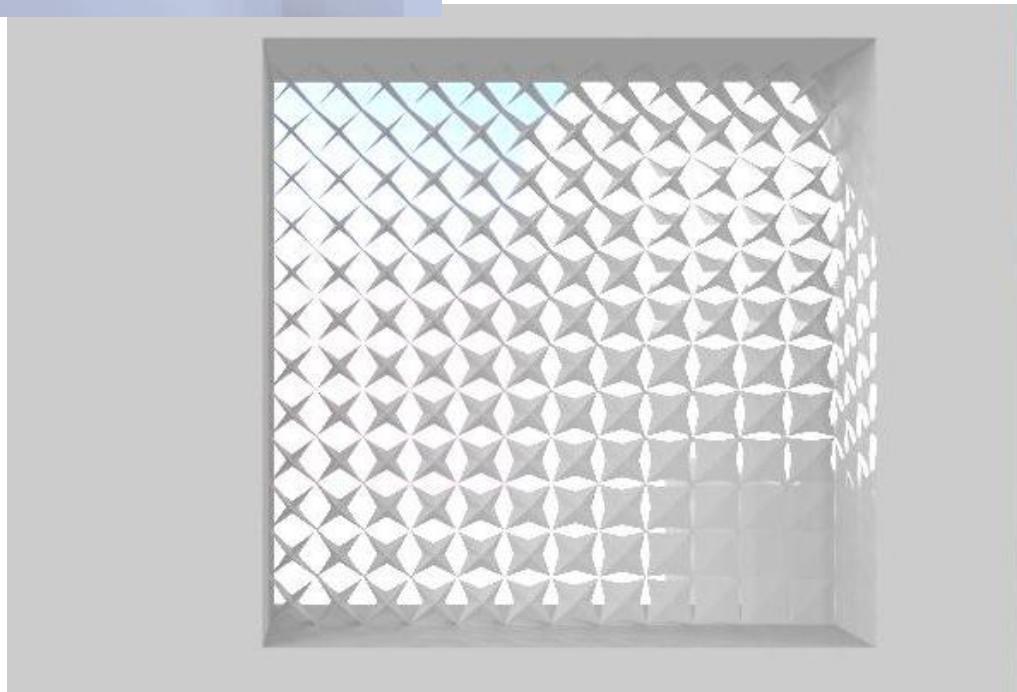
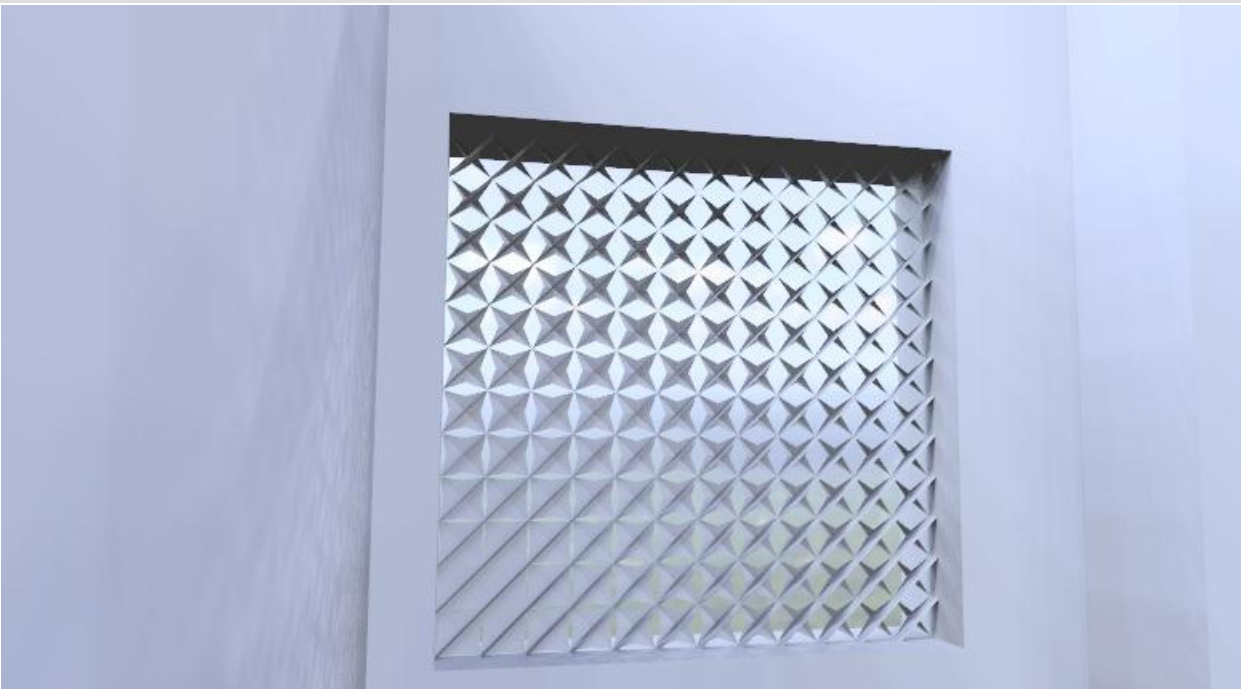


FRONT ELEVATION



SIDE ELEVATION

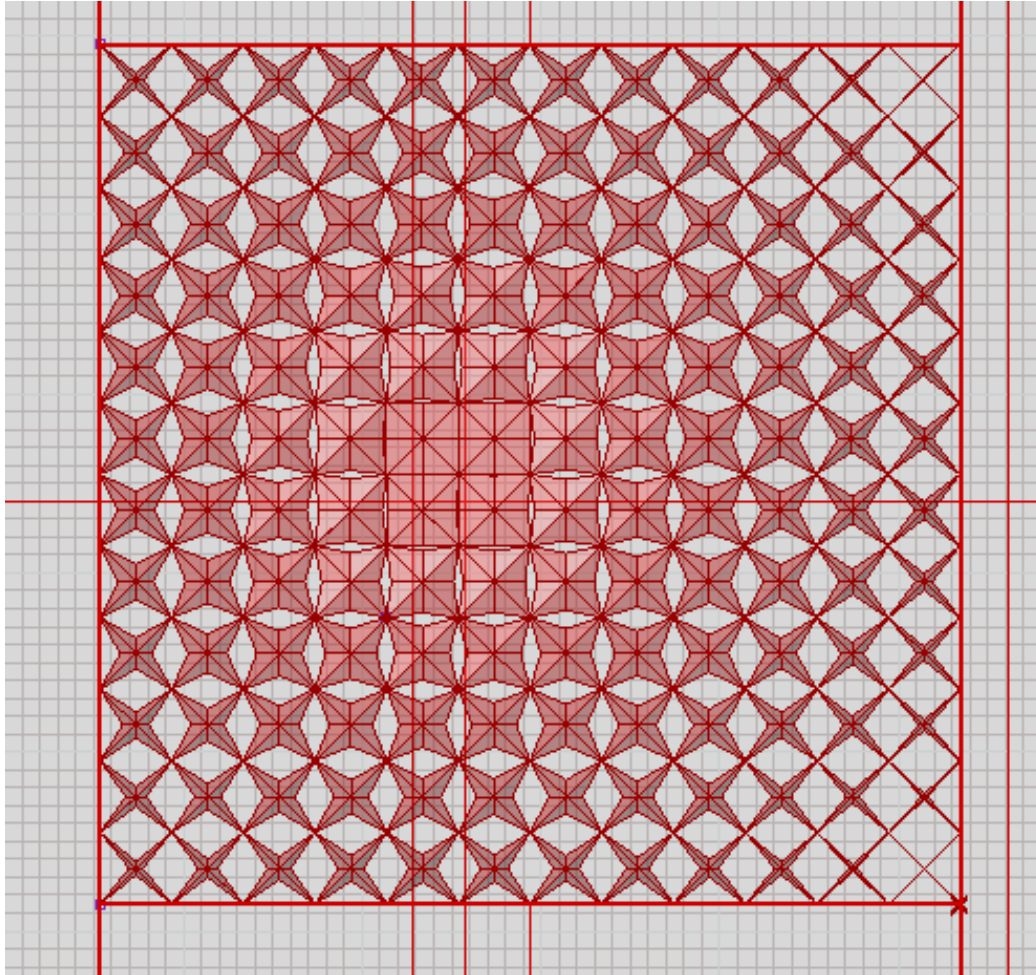




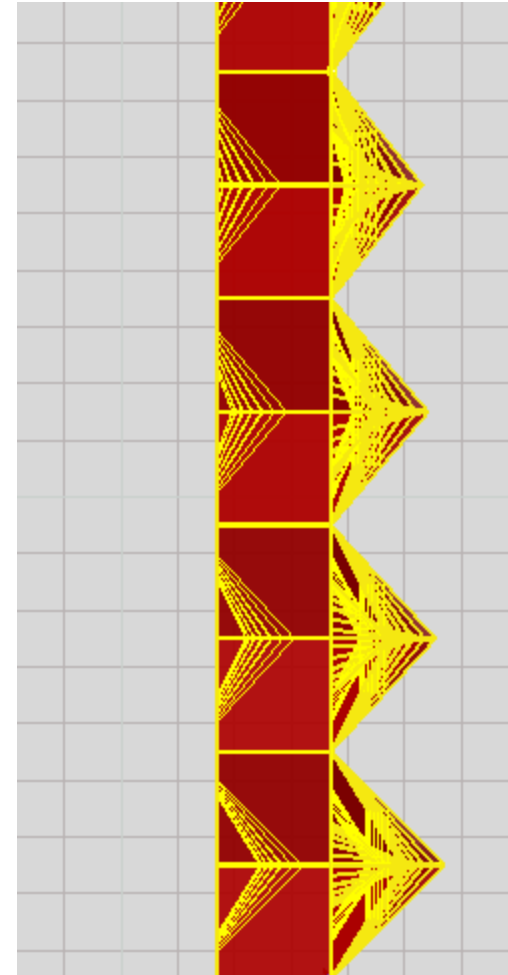
SCREEN 1

Time of the day : MORNING

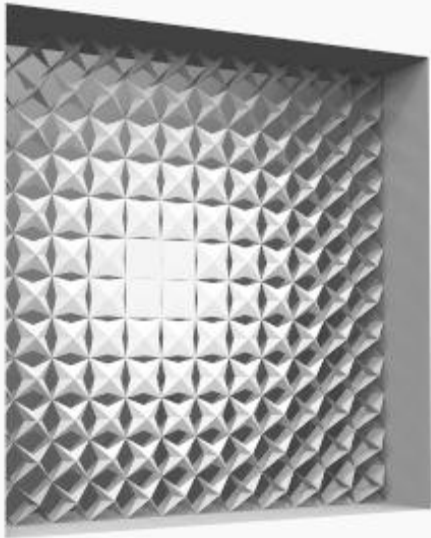
- **NO OF CELLS IN UV DIRECTION = 12**
- MD SLIDER POINT = 0.50; 0.50



FRONT ELEVATION



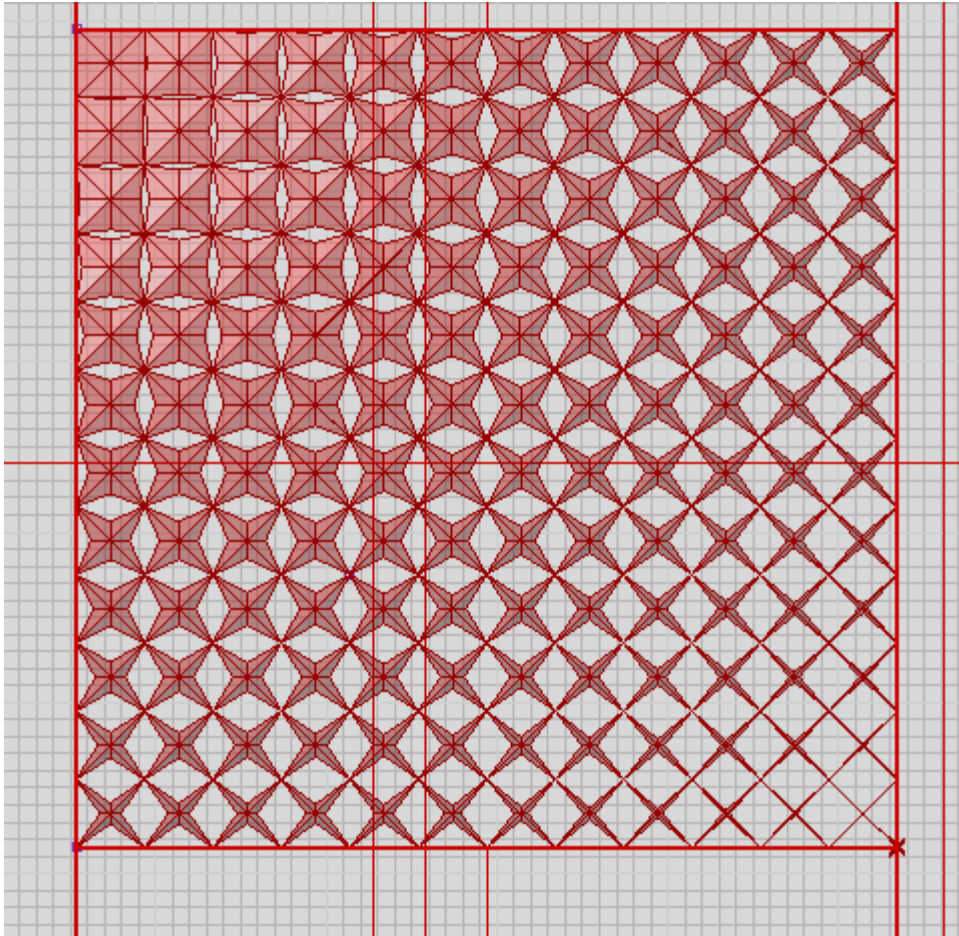
SIDE ELEVATION



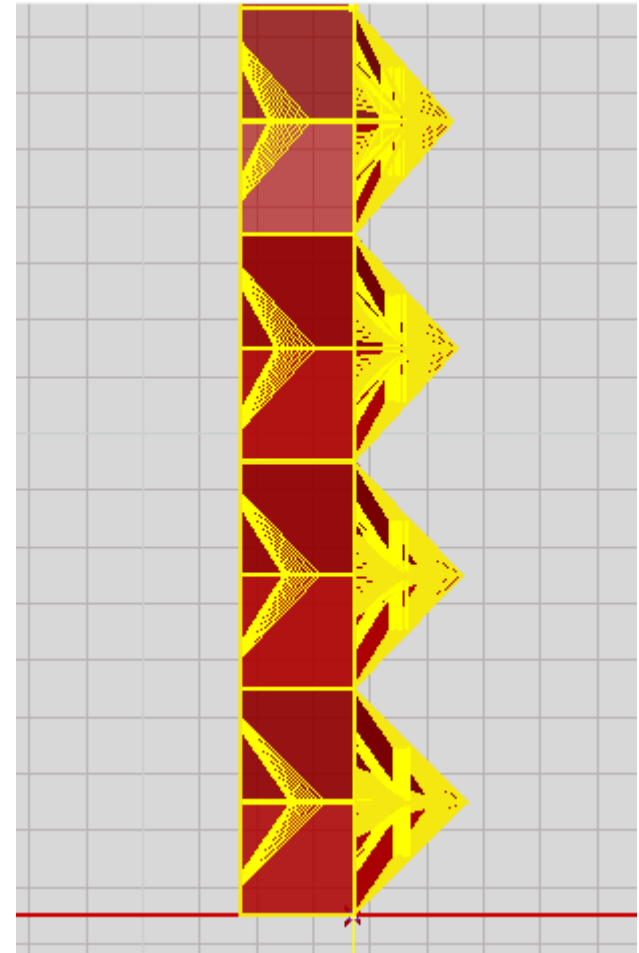
SCREEN 1

Time of the day : MORNING

- **NO OF CELLS IN UV DIRECTION = 12**
- MD SLIDER POINT = 0.95; 0.95



FRONT ELEVATION



SIDE ELEVATION

SIDE ELEVATION

