

Rhino and Grasshopper: Rule Based Modeling

final project | Light Diffusing Screens

Jung In, Chang

Schematic Design

Category | Dense Egg Crates

Large window with Direct Sunlight Everyday

Esp. Late Afternoon

12 Feet High Ceiling,

Block only Lower Window

Human Scale

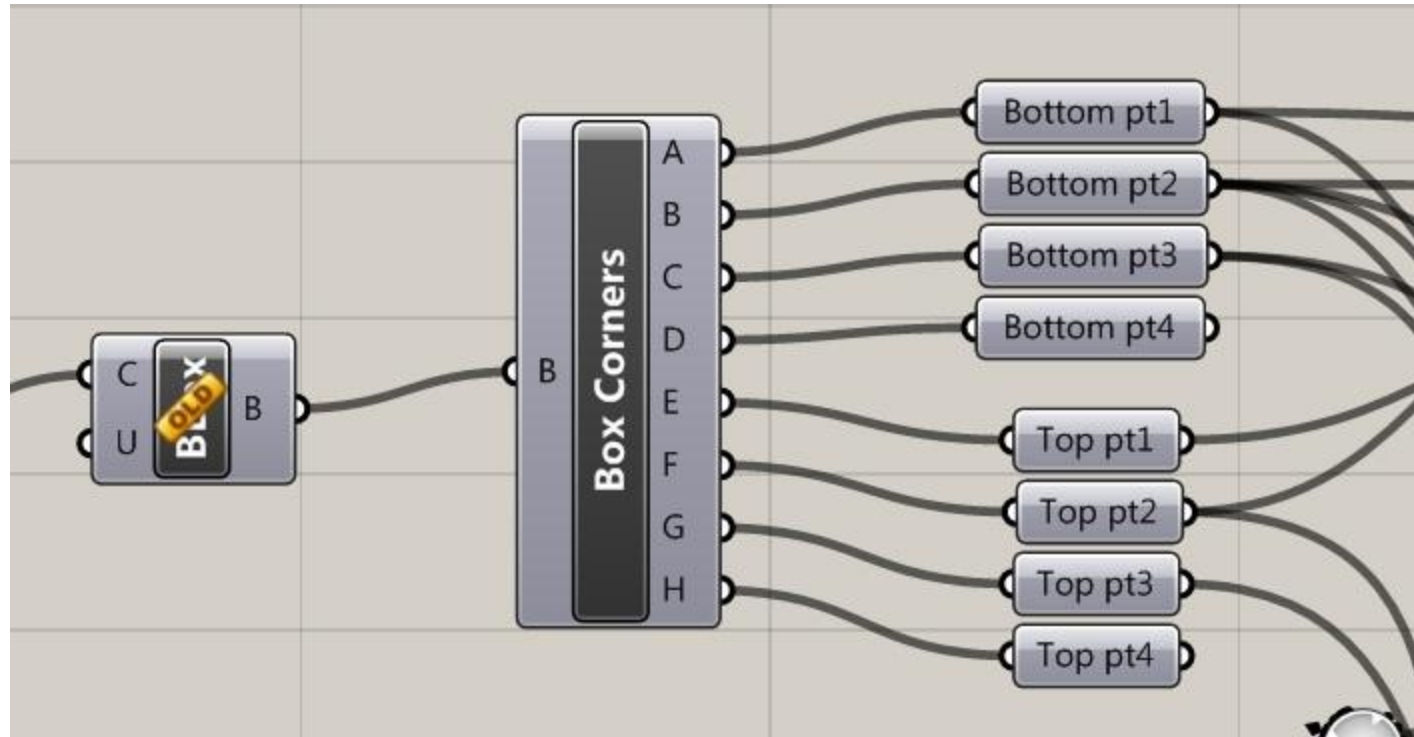
Supported by White Shelf

under the window



Design Drivers in GH Definitions

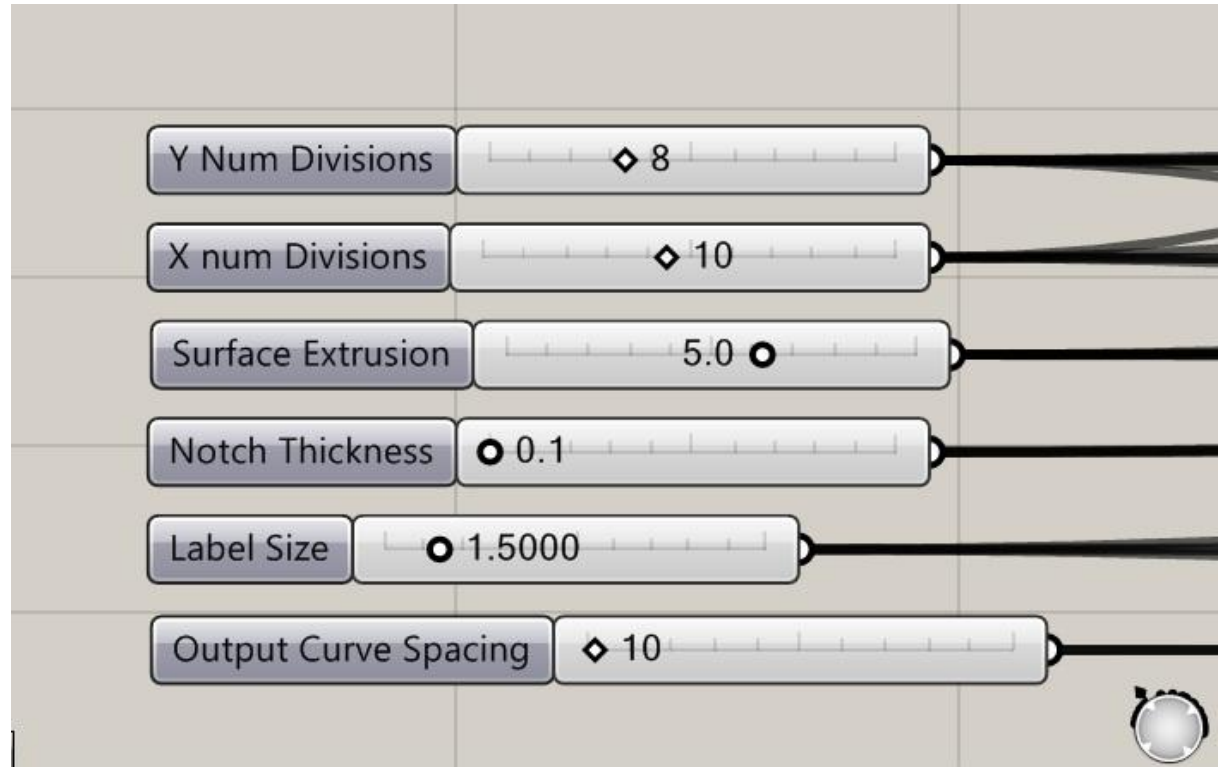
Category | Dense Egg Crates



Control Brep Box Corners

Design Drivers in GH Definitions

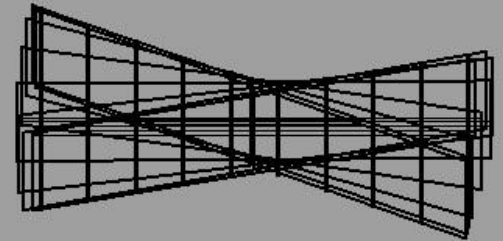
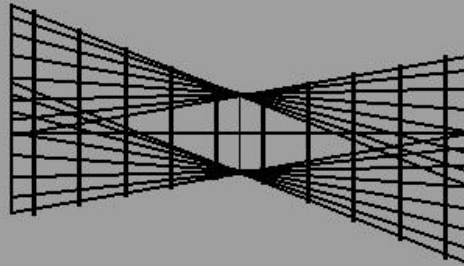
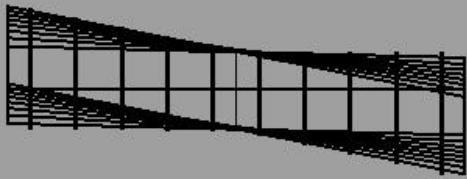
Category | Dense Egg Crates



Control Number of X, Y Strut Divisions
Surface Extrusion

Design Drivers in GH Definitions

Category | Dense Egg Crates

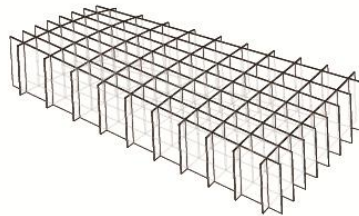
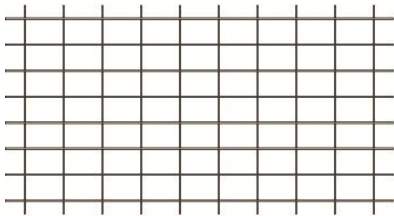


Control Rhinoceros Surface

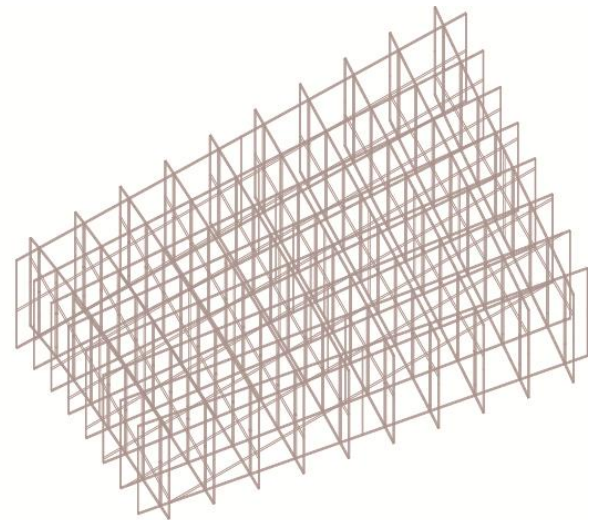
Control points | Vertical, Horizontal

Control lines | Straight, Curve

Line drawings



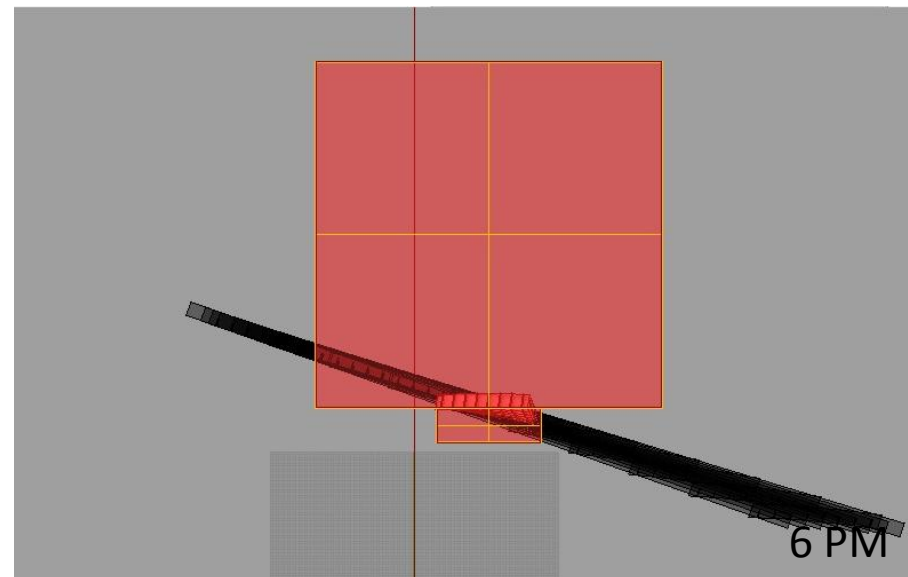
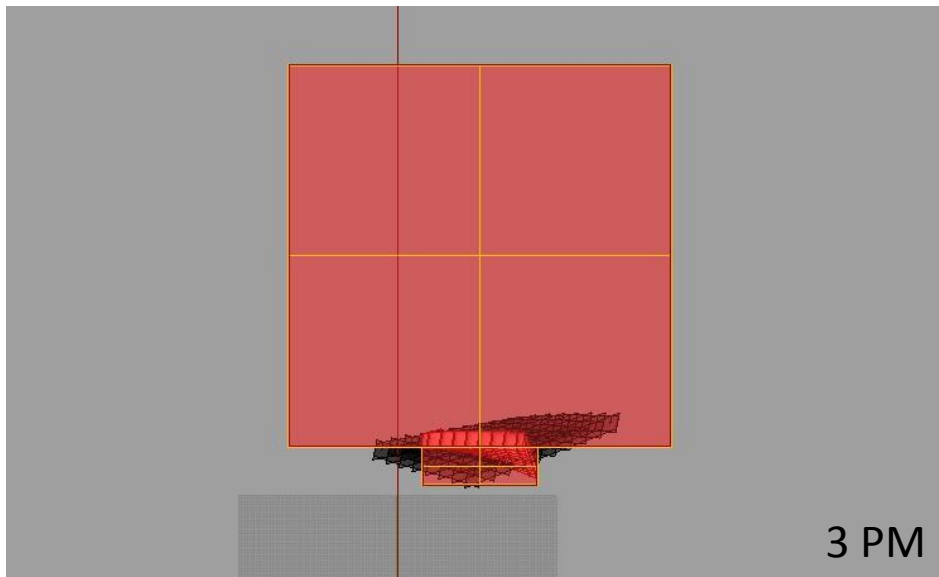
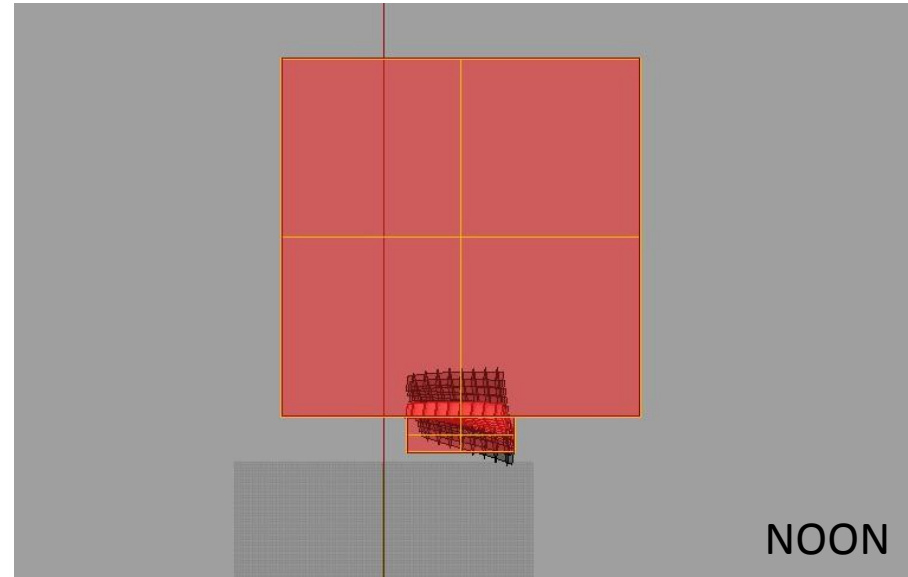
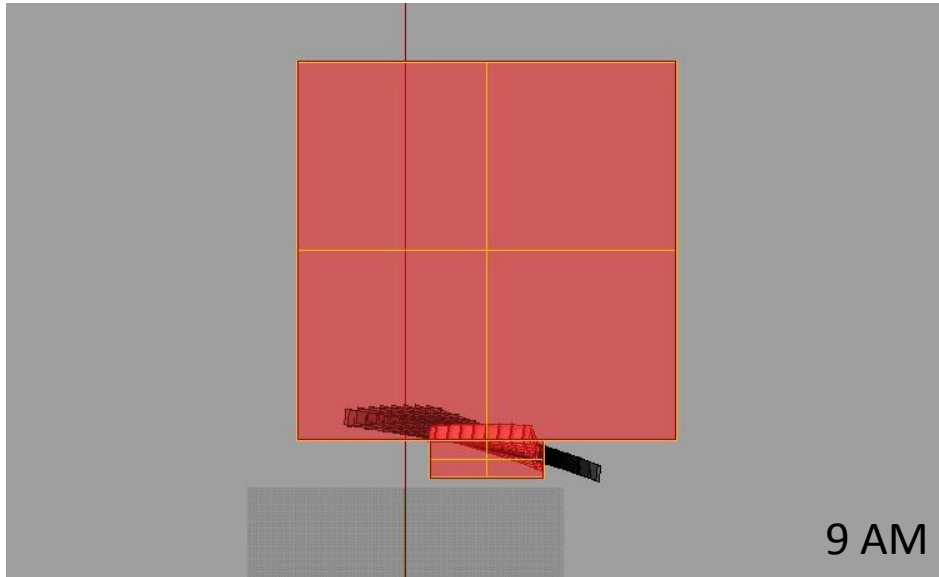
4 views of 2D Drawings



Axonometric View

Shadow Studies

Summer | June 21th



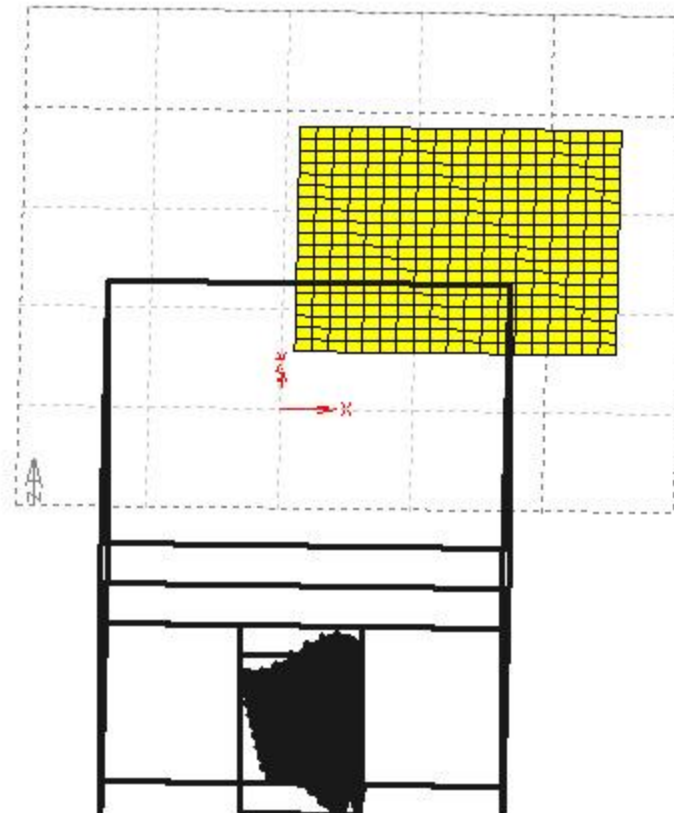
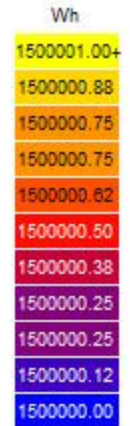
Insolation Analysis

Total Radiation

Value Range: 1500000.00 - 1500001.00 Wh

© ECOTECT v5

Summer | June 21th

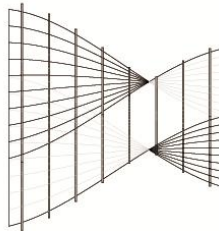
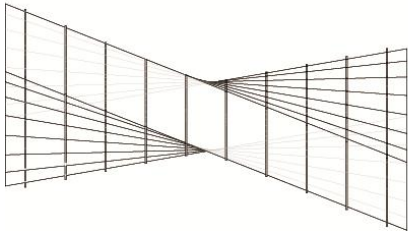
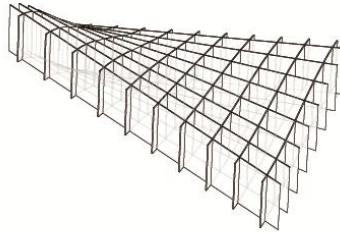
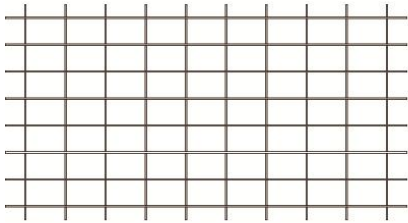


Line drawings

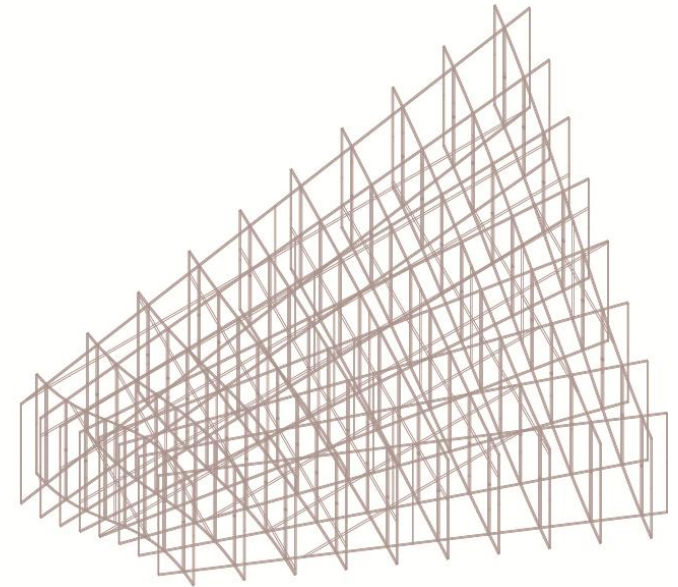
Spring / Fall | September 21th

Middle of the Year
Spread light evenly

W 30 x L 15 x H16.70



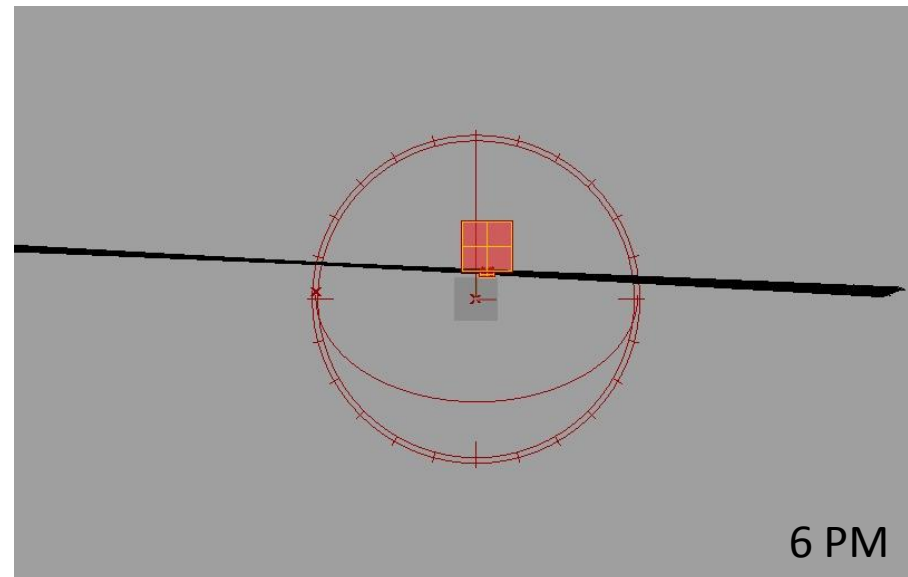
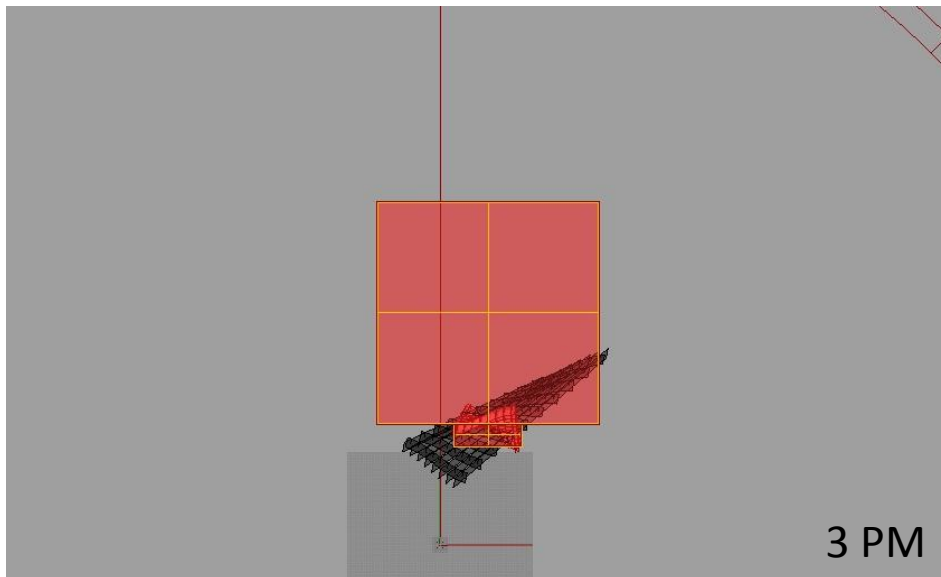
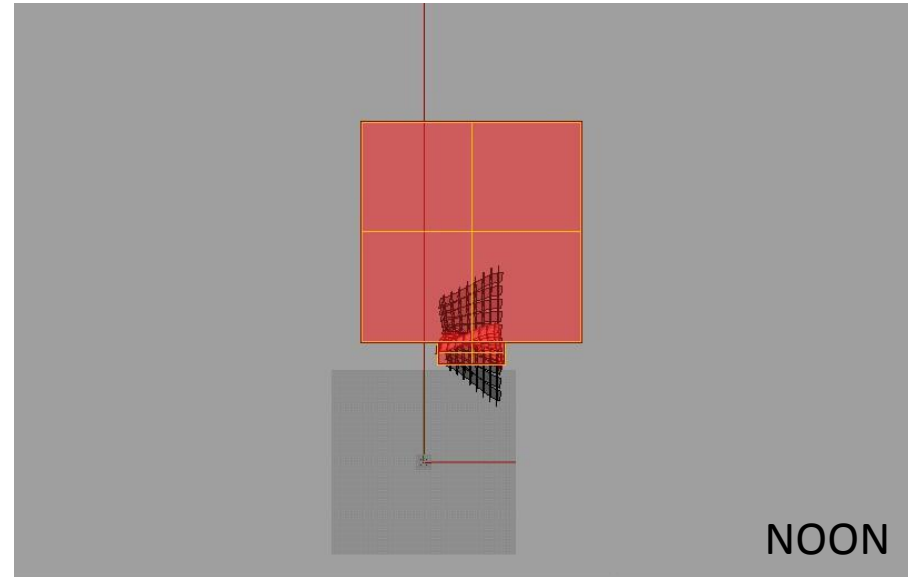
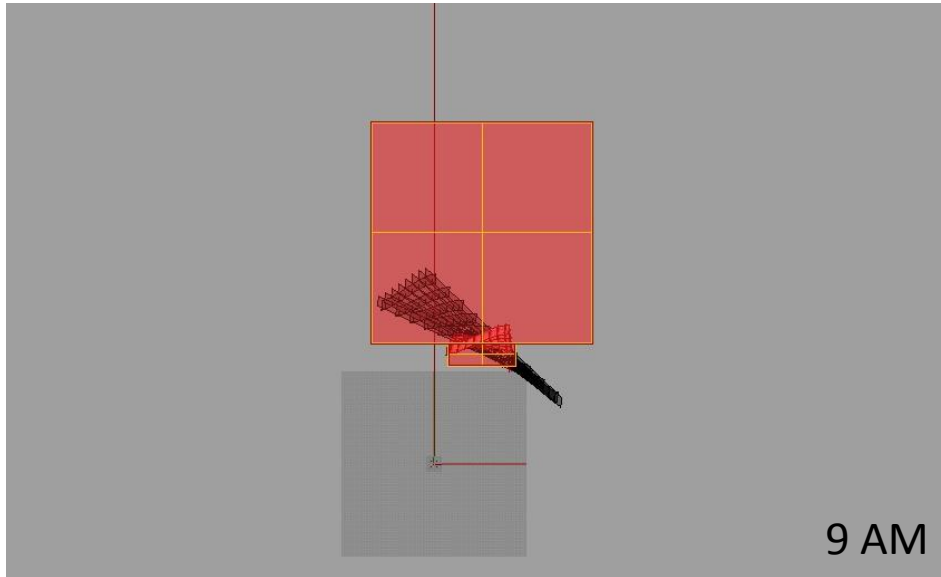
4 views of 2D Drawings



Axonometric View

Shadow Studies

Spring / Fall | September 21st

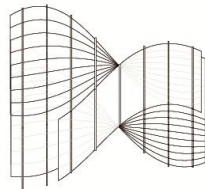
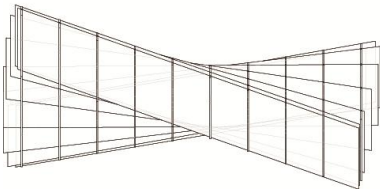
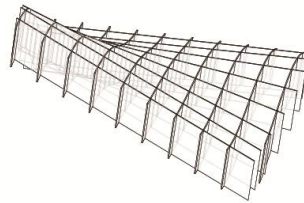
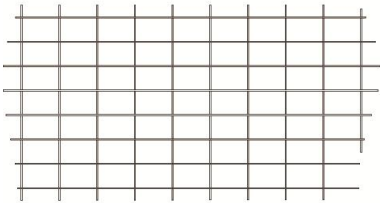


Line drawings

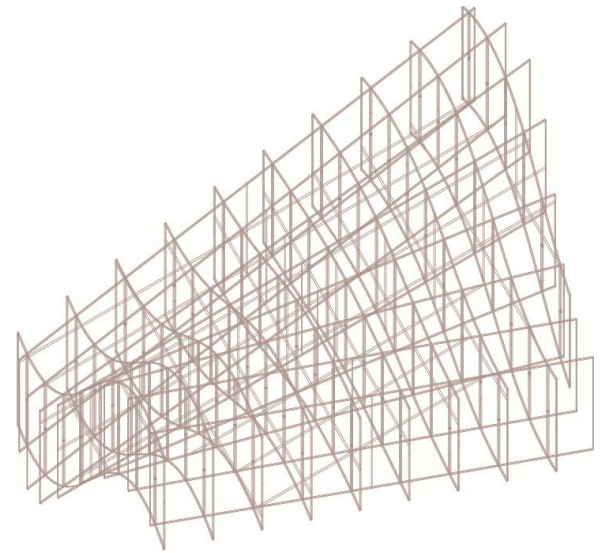
Winter | December 21th

Shortest Sunlight of the Year
Absorbing Sunlight As Long As Possible

W 30 x L 16 x H15



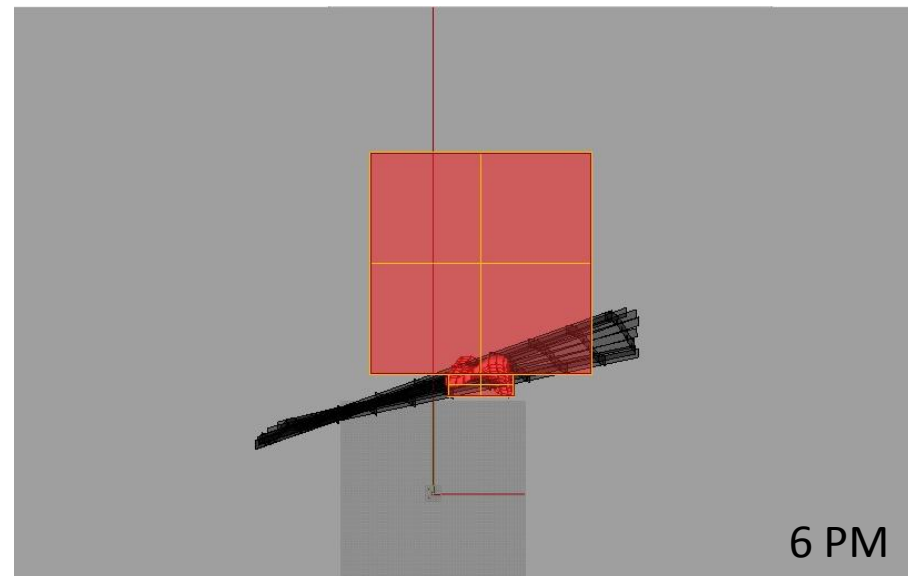
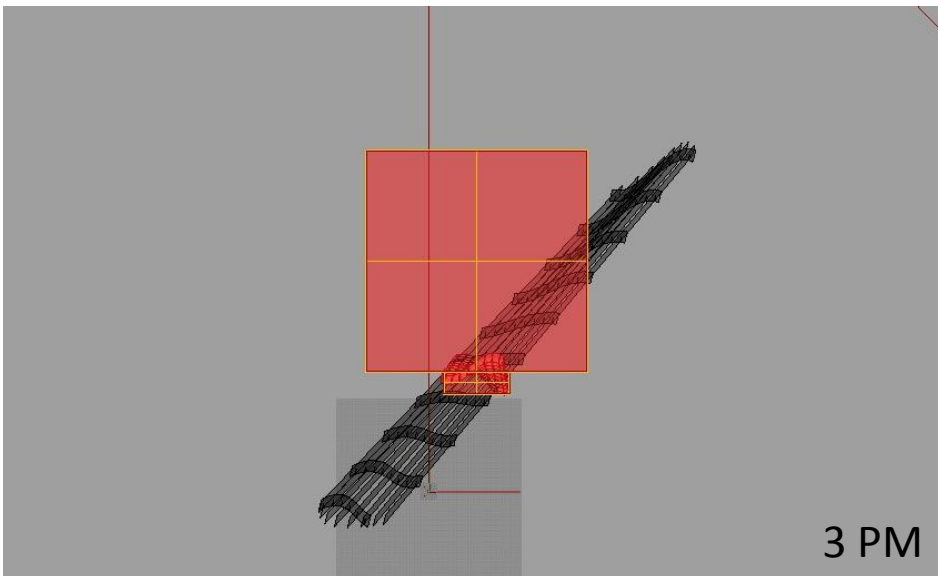
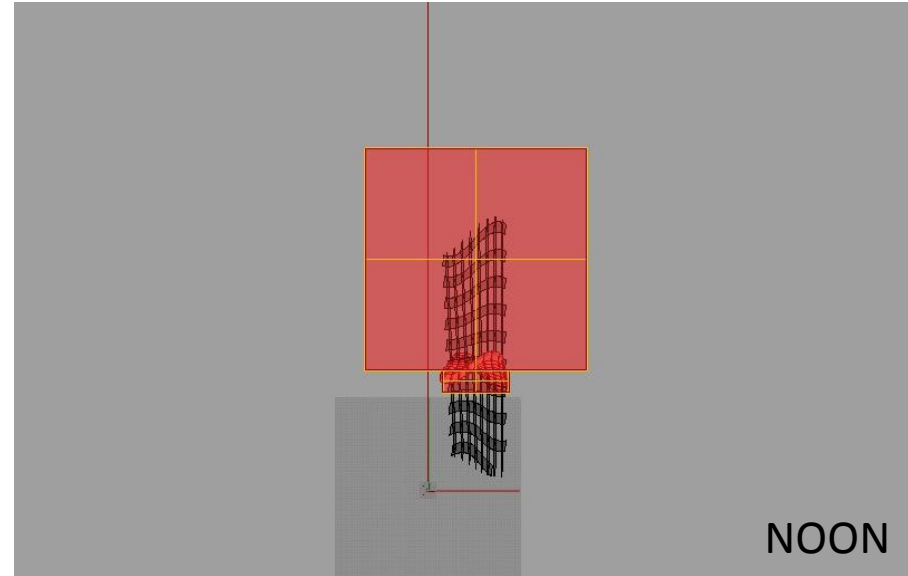
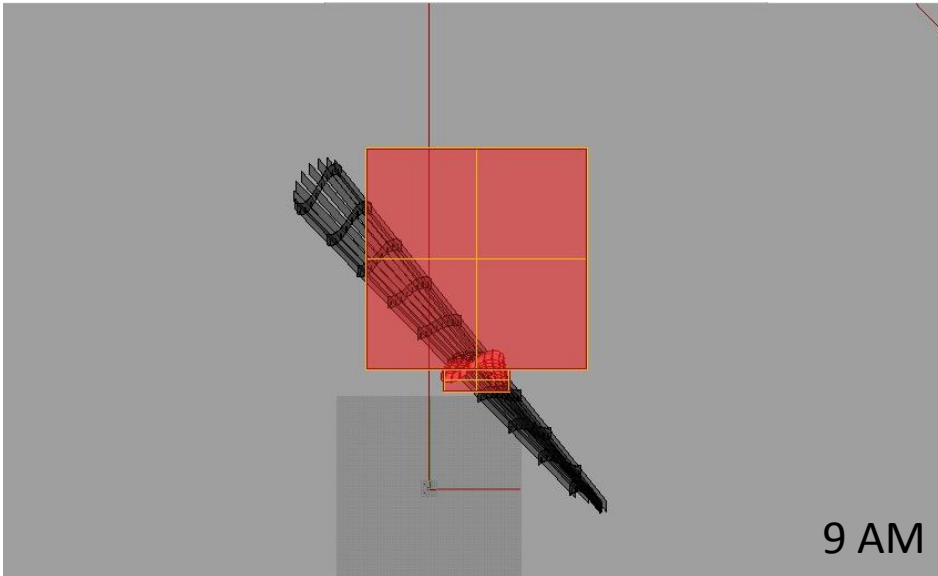
4 views of 2D Drawings



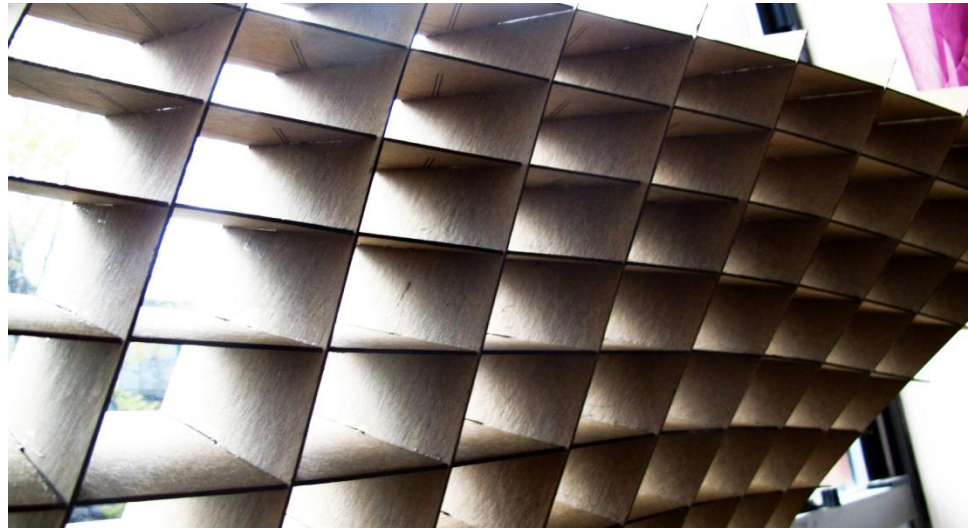
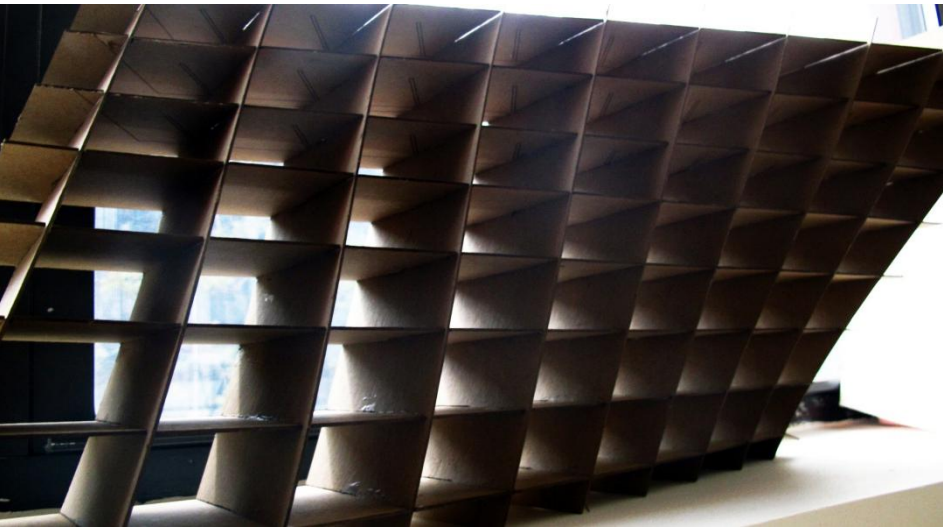
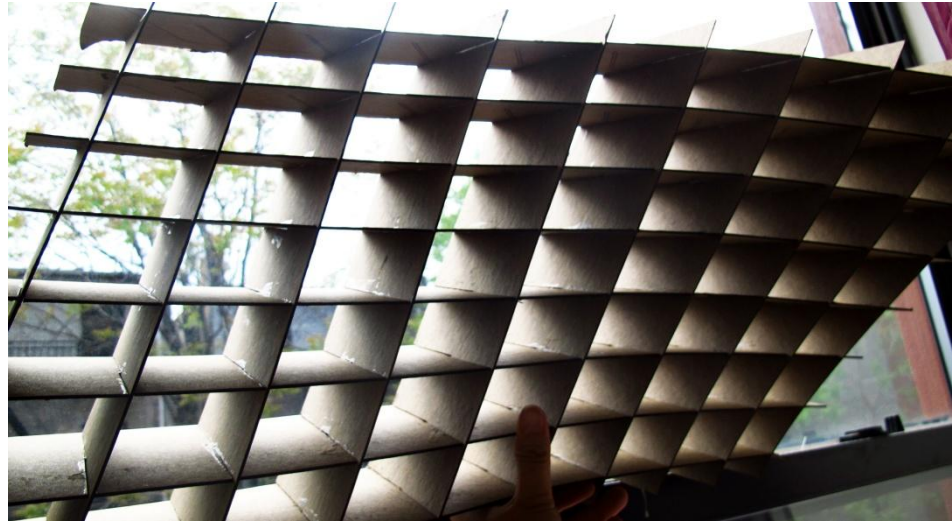
Axonometric View

Shadow Studies

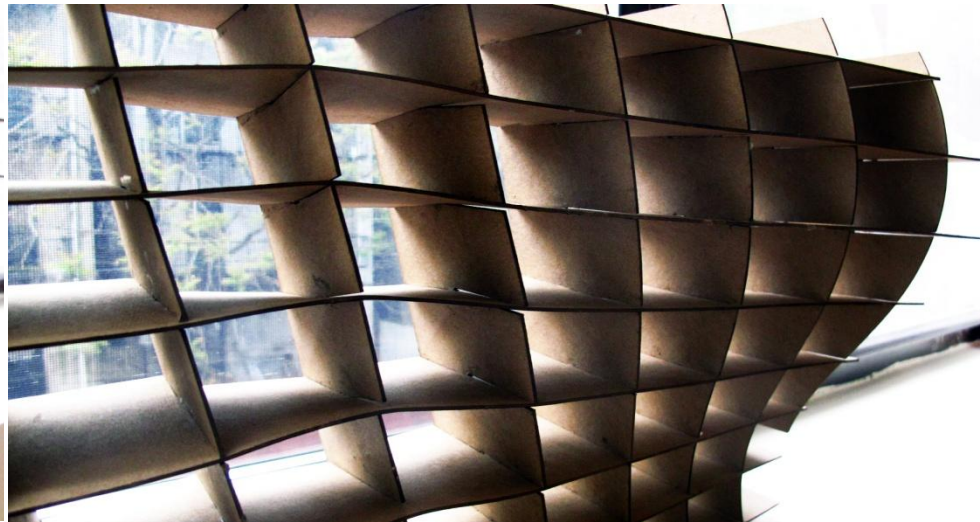
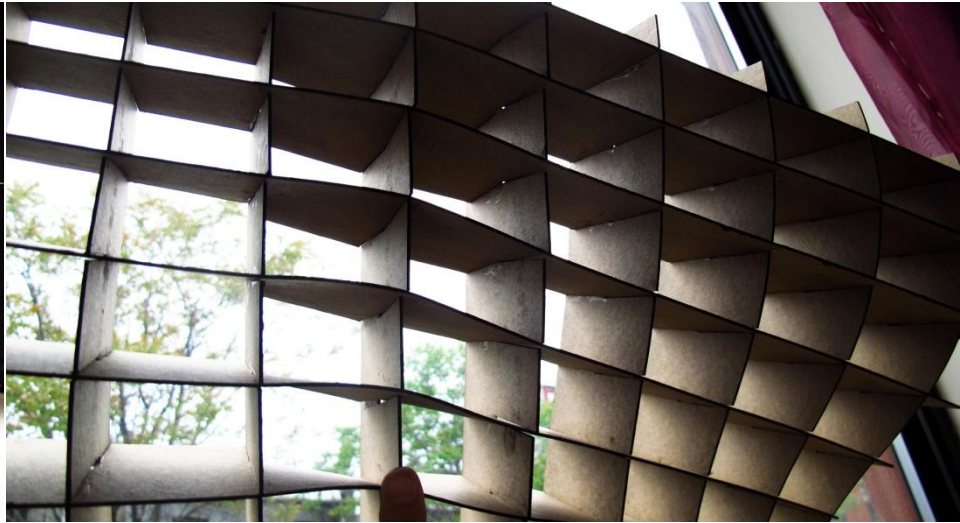
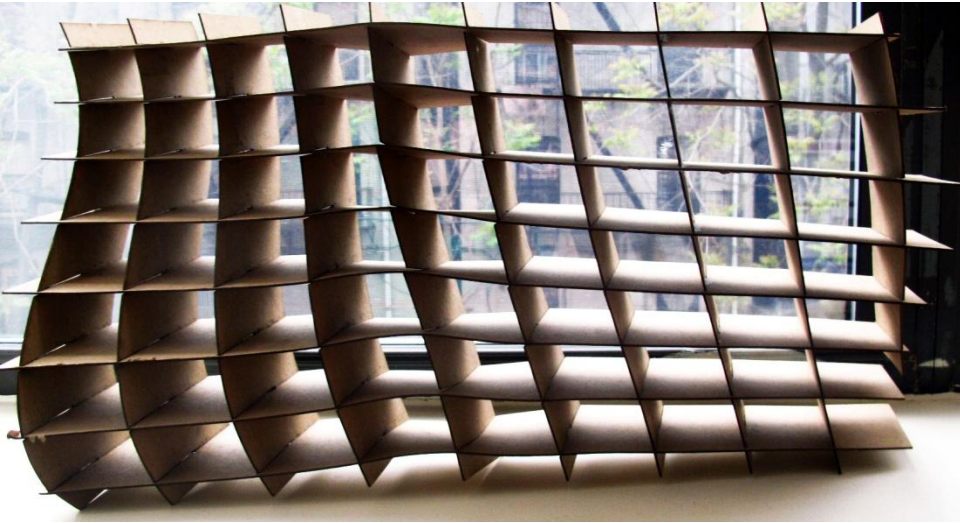
Winter | December 21st



Lighting Studies



Lighting Studies



Lighting Studies

