

Arch 3690 Intermediate Computation and Fabrication

Tue. 11:30 pm - 1:30 pm | Fri. 11:30pm - 1:30pm

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ASSIGNMENT 02 PART D MUSEUM FACADE: PANEL PROTOTYPE

DUE: April 25th, 2014 (In class review - final panel mock-up to be presented May 2nd, 3/4 review)

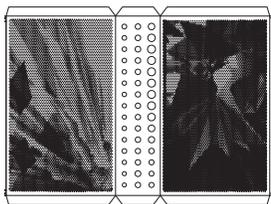
In this assignment you will choose a single panel or set of panels to refine and build as either full-scale or half-scale prototypes. The purpose of this assignment is to study the critical connection details, material thickness, tolerance and overall form in a physical model. This prototype is a first pass and can be rough. You will not resolve every problem on the first pass. If you want to analyze multiple issues within your detail (i.e. thickness of material, perforations, bolt size, etc) it would be best to make more than one prototype. This is an iterative process and multiple prototypes will be much more beneficial than one model that tries to do it all.

Use the laser cutter and materials you have readily available as stand-ins for your actual material. Be smart about how you use a specific material (chip board, museum board, acrylic, etc) and always try to match the actual thickness of the material you are proposing to use.

REQUIREMENTS:

You will be required to submit a minimum of TWO prototypes showing your overall panel and the connection details from panel to panel and panel to structure. The following projects are examples of the types of prototypes and drawings we expect from you. Your prototypes and drawings should follow a similar format and clearly present your design, all necessary details and how it interacts with the building facade.

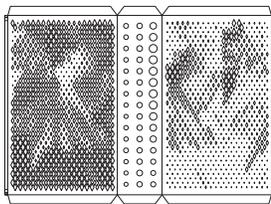
EXAMPLE 01: Prototype exploring perforations and structural connection



1/4 Iteration
1/2 scale
7.500 inches

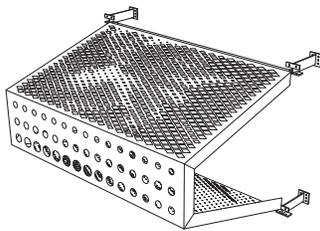


Liam Bricker

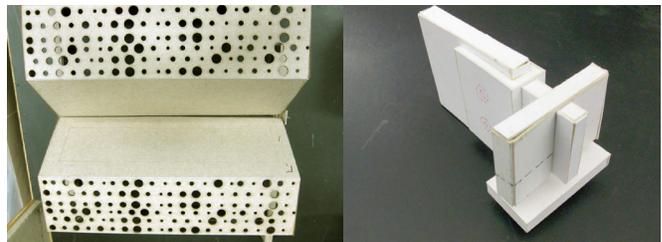


3/4 Iteration
1/2 scale
3.600 inches

Fabricated Panel

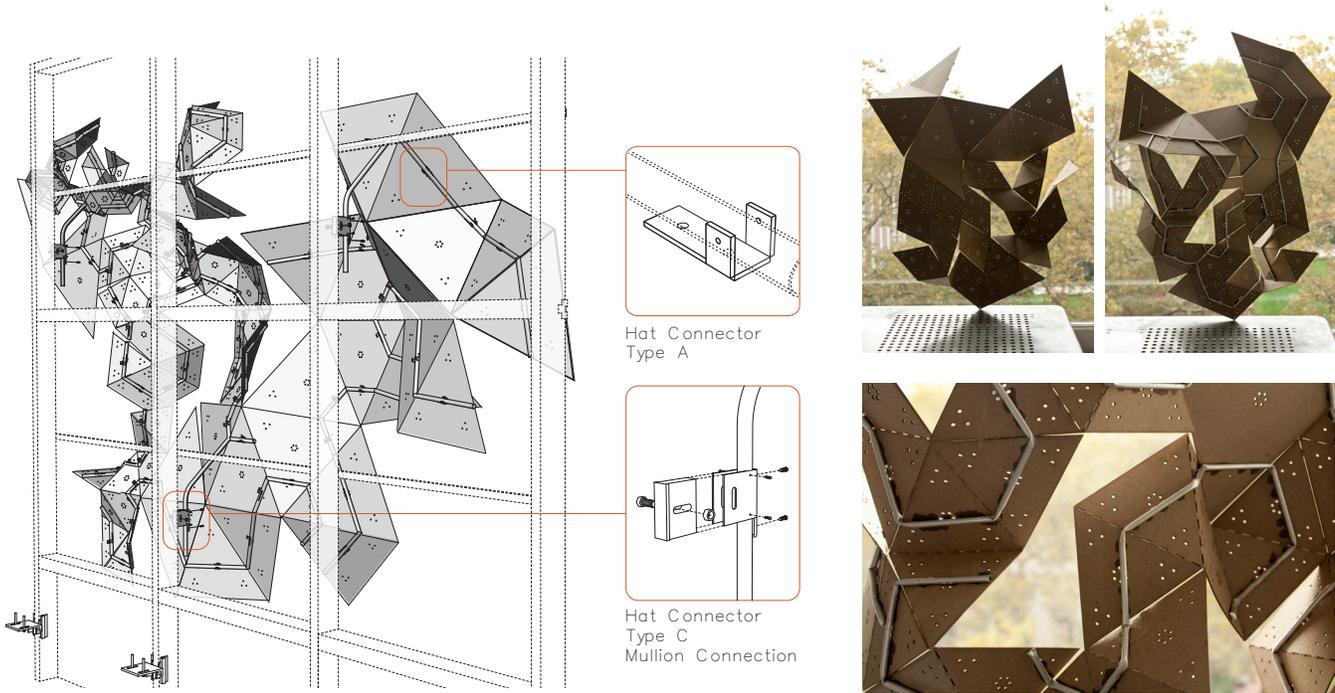


(L+L): Sheet Metal Screen//IIII

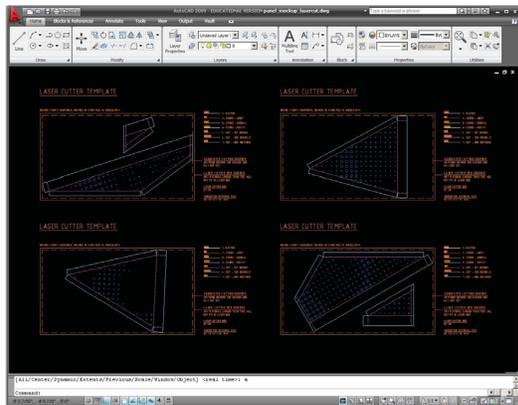


(L+L): Study Models//IIII

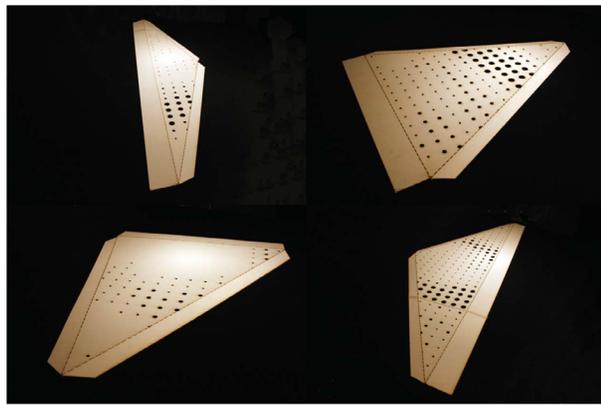
EXAMPLE 02: Prototype and drawing demonstrating a panel system and panel to panel connections



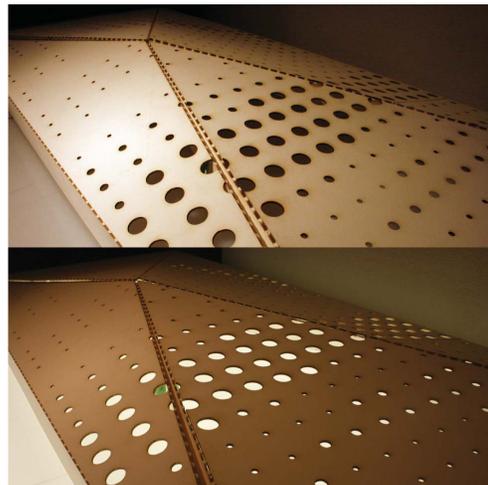
EXAMPLE 03: Prototype demonstrating the components for a single panel and lighting effects



Laser-cut Template



Laser-cut pieces



Panel_ Mock-up

EXAMPLE 04: Prototypes showing full-scale connection details

