

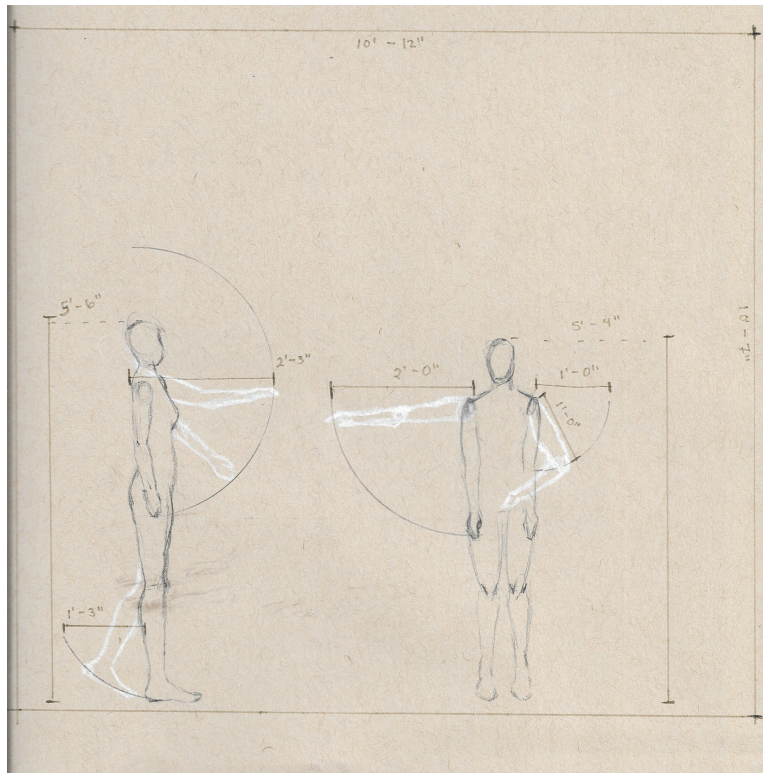
est.2024 | issue 1

Fragment

Forms



Marshall Bradley & Nicole Valdes



Ergonomics is the study of the human body and its relation to space/objects to promote safety, efficiency, health, and human comfort. It requires knowledge of anthropometrics in order to design spaces or objects that are in service of people and their efficiency. In addition to knowing dimensions, measurements of movement and understanding of the human body (kinesiology, body mechanics, comfort) are also crucial aspects of ergonomics. For example, one must study the heights of tables and eye level angle to objects, or the shape of chairs to see how the body will respond in these spaces. As designers, we need to study the functionality of the space to create something timeless for generations to value and interact with the spaces. In conclusion, what are ergonomics to me I feel it is studying the comfort and functionality of the human body in order to make designs that fit everyone in order to have something timeless so that future generations can enjoy what is made from the designers' vision.

architecture
 "I believe that once becomes **ETHICAL**
Aesthetical and practical, it can really
 solve concrete problems that are urgent in
 the world today." One of the main ideas is that we learn by doing. I'm really interested in transforming reality with an active
 gaze, being able to see things in a different way to look closer. We not only see with our eyes, but also with our skin. The optic
 and the haptic **I really like to interact with dancers that work with their BODIES moving through space.** I believe that once
 architecture becomes ethical, aesthetical, and practical, it can really solve concrete problems urgent in the world today. For example, I did an installation that was last
 year in Versailles called "Stand up for the Seas." We were talking about the pollution of the oceans, and the fishing gear that is the most polluting element. The
 professional gender bias in Mexico is an adverse reality, however, when women bring in a different outlook into their professional
 practice which, **rather than focusing on gender divisions, produces a better understanding**
of men and women in society, their work receives attention and support. As an architect, you could say I do something
 which traditionally is considered to be very feminine, which is listen. I always look to the other arts for inspiration. In cinema,
Jean-Luc Godard, Michelangelo Antonioni, Andrei Tarkovsky; in **literature** Jorge Luis
 Borges, Julio Cortázar, Georges Perec ; in the plastic arts, Agnes Martin, Arte
 Povera, Marcel Broodthaers, to mention some of them

“Women have woven since early times. Today **we weave**
 relationships and **networks.** o we weave
 and **interconnect projects of different scales**
 and layers to create a **positive** impact with
 the landscape, with the context and the communities.”

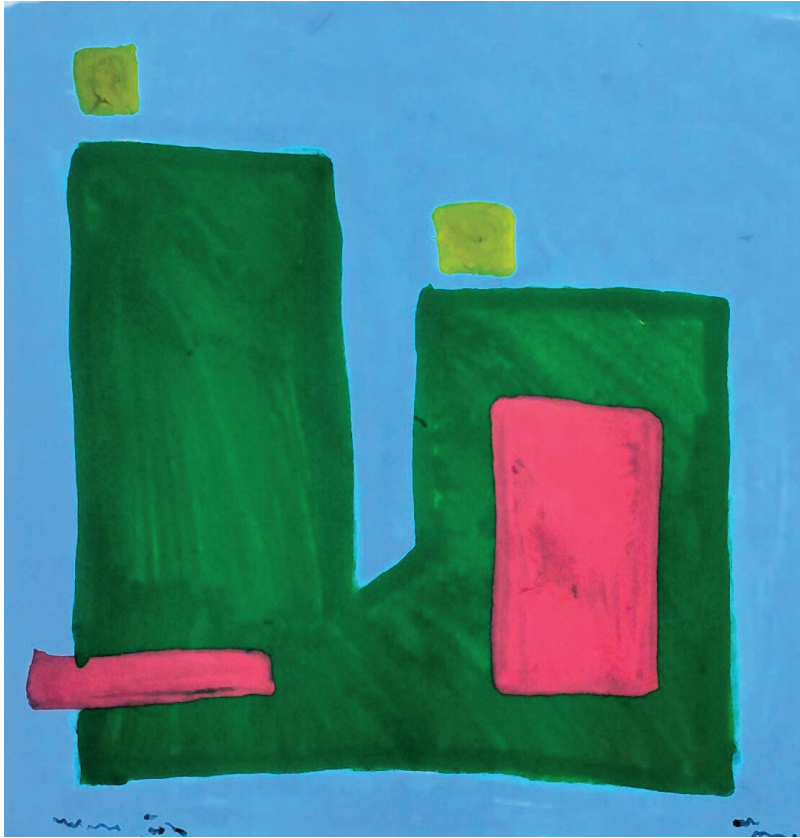
Rozana Montiel Word Collage



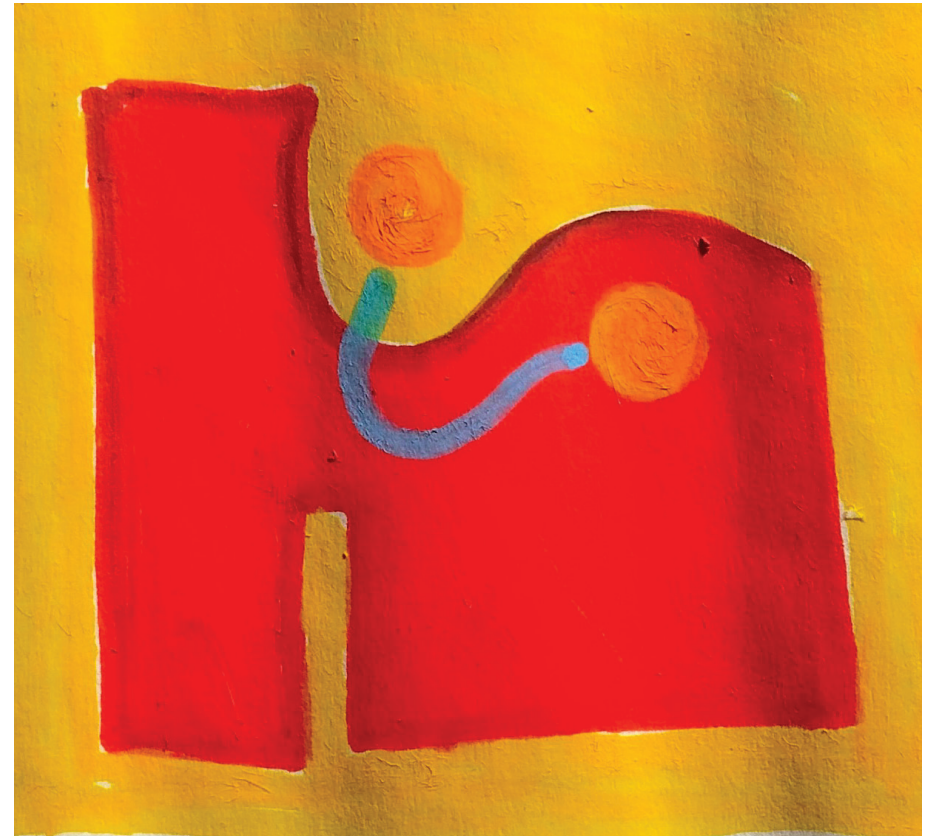
Bruno Munari Collage



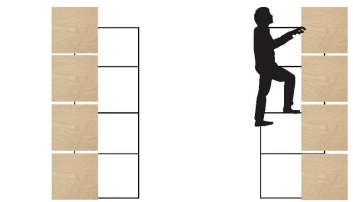
Rozana Montiel Collage



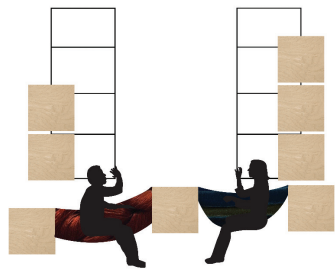
Bruno Munari Inspired Painting I



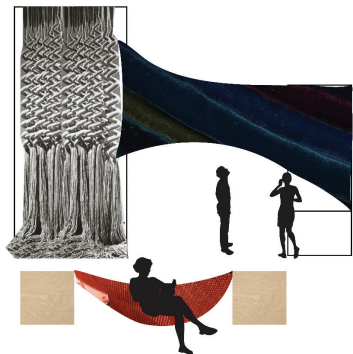
Bruno Munari Inspired Painting II



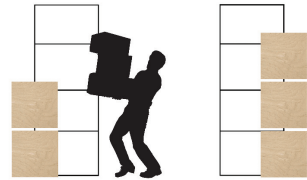
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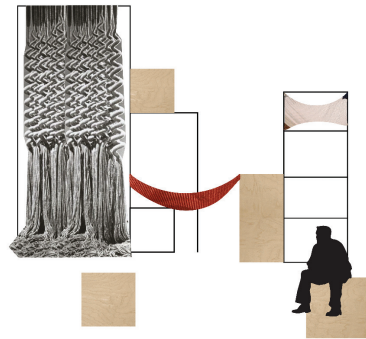
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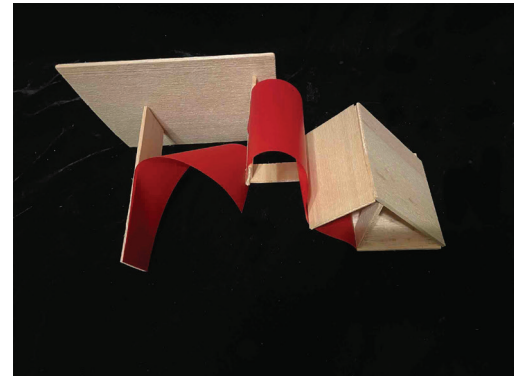
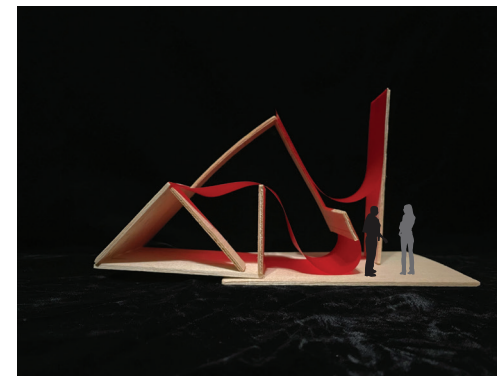
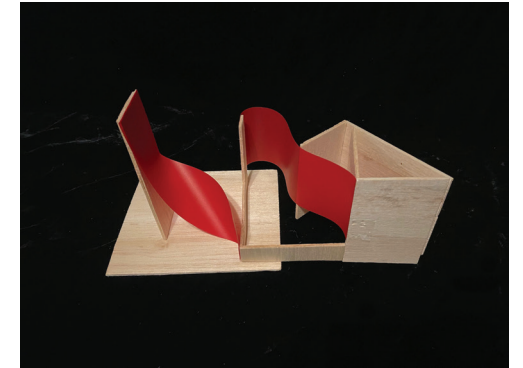
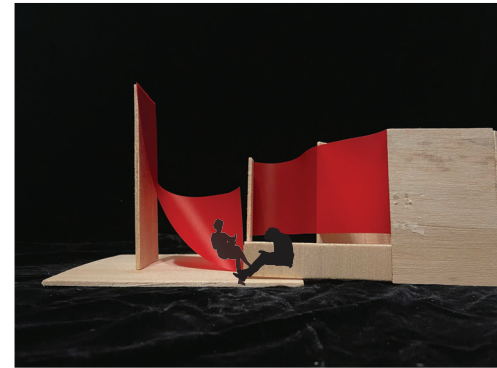


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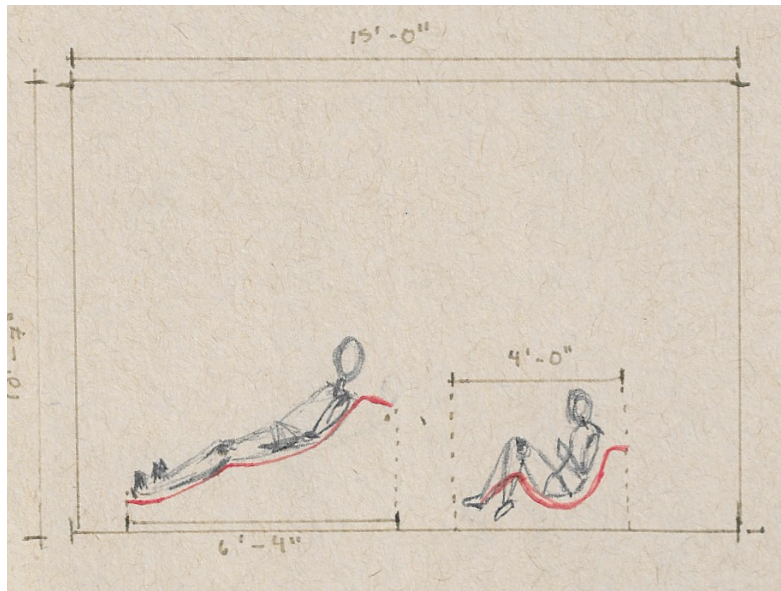
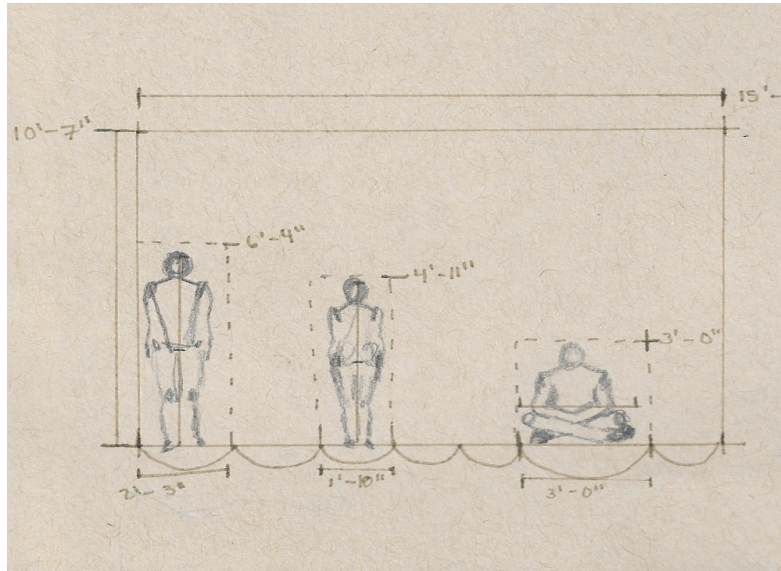


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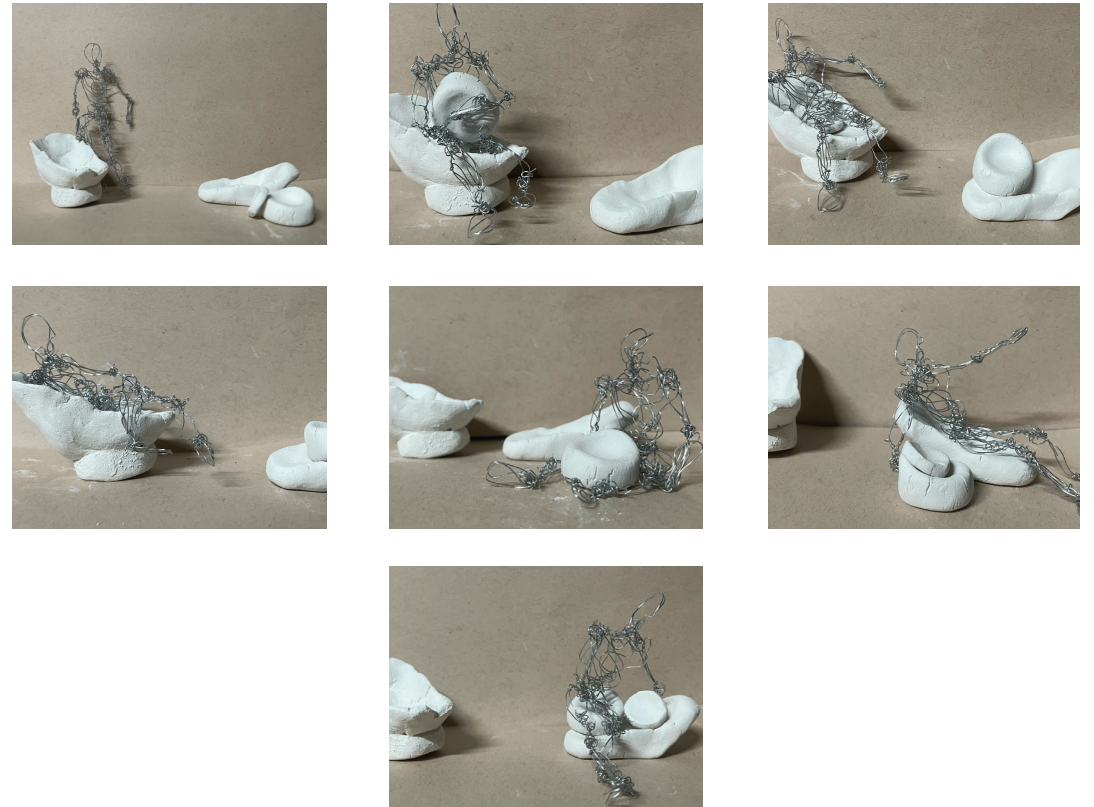
MIN Design + Rozana Montiel GIF



MIN Design Model



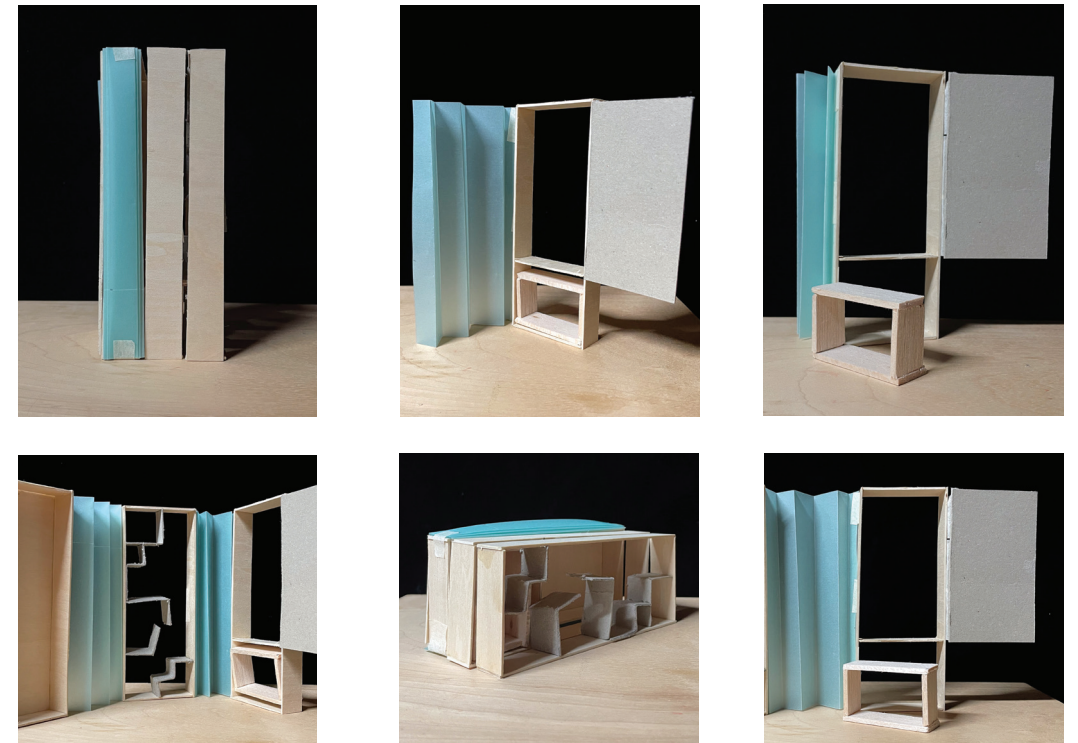
Ergonomic Study Drawings



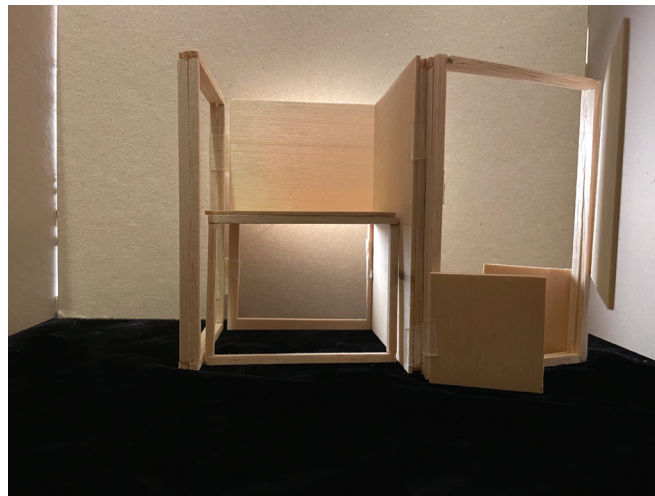
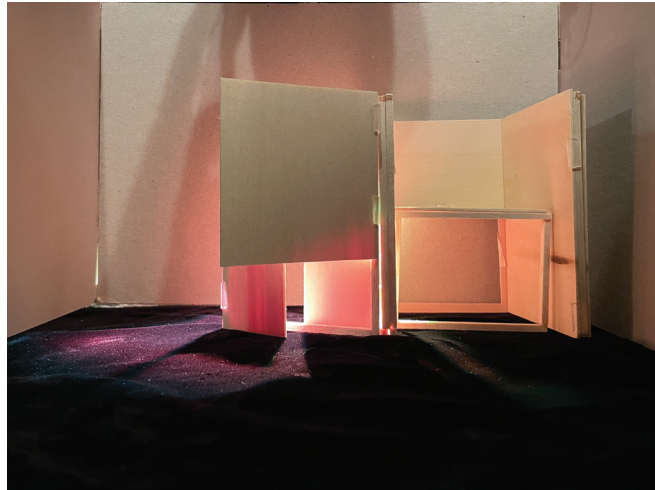
Ergonomic Study GIF



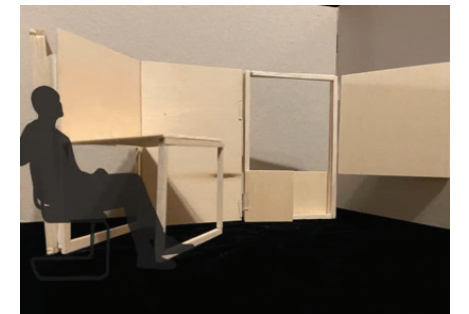
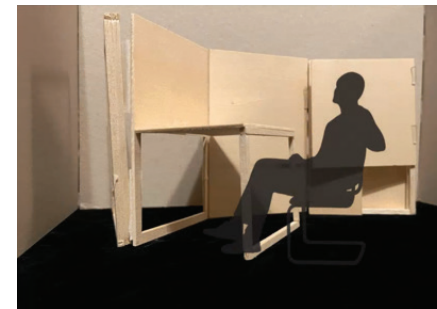
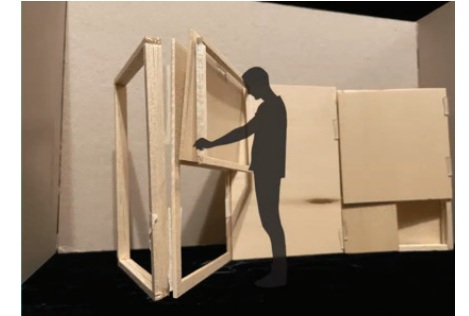
Accordion Model 01



Accordion Model 02



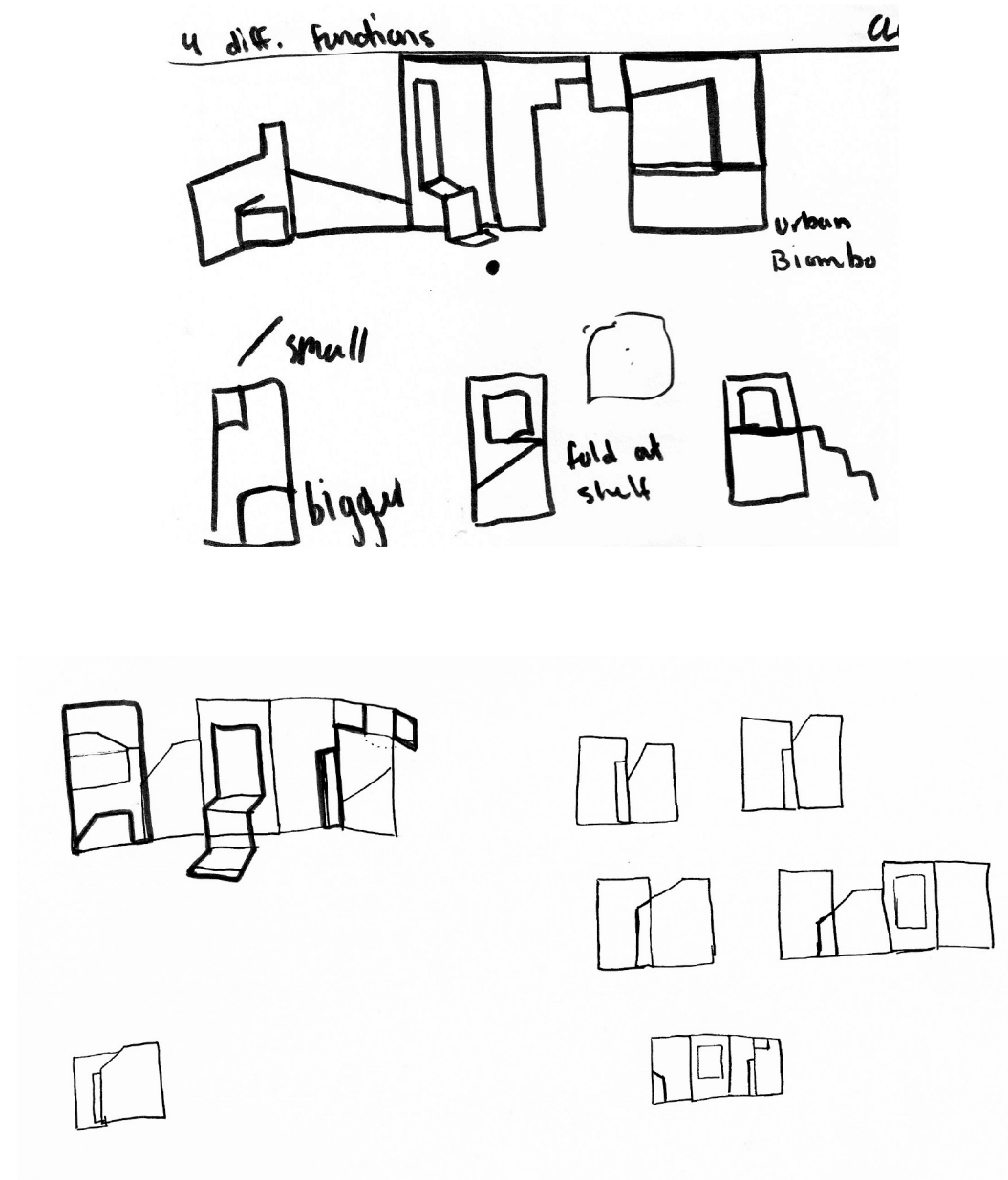
Barragan-Wall Study Model



Barragan-Wall Study Model GIF

Project 02

Our primary goal was to design a modular furniture system that seamlessly blended both hard and soft elements, resulting in a playful symphony of movements. We kept in mind the words of Functionality, Joy, and Sophistication to create a project that was not only functional, but also unique in its way of being a functional wall. As our design developed, we drifted away from the concept of hard and soft to an accordion wall of functionality and display. To achieve this, we reimagined the concept of an 'accordion wall' through many iterations. Drawing inspiration from Eileen Gray's reinterpretation of traditional folding screens, as well as studying our own professors Urban Biombo project, we then designed a folding screen that acts as wallpaper while simultaneously providing functional elements such as a display, shelving, and seating. Within this design we hope to bring a sense of community among students and harmony with the other projects.



Modular Wall Sketches



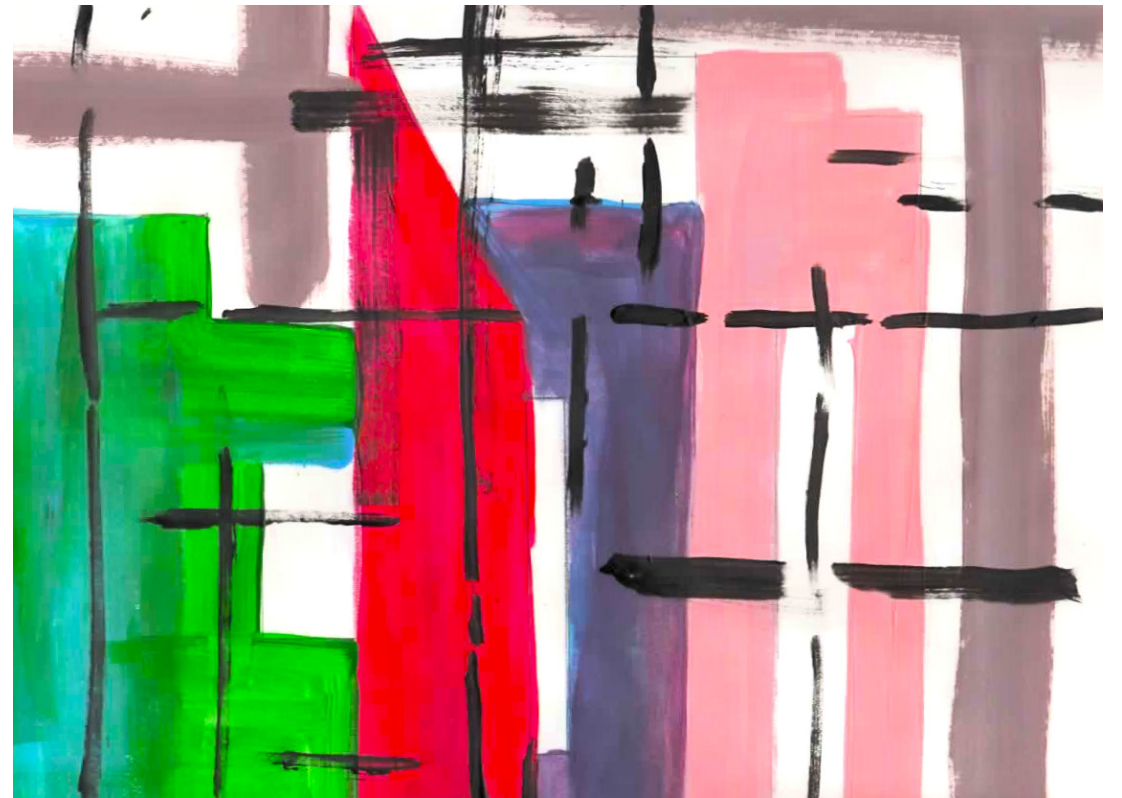
Concept Painting I



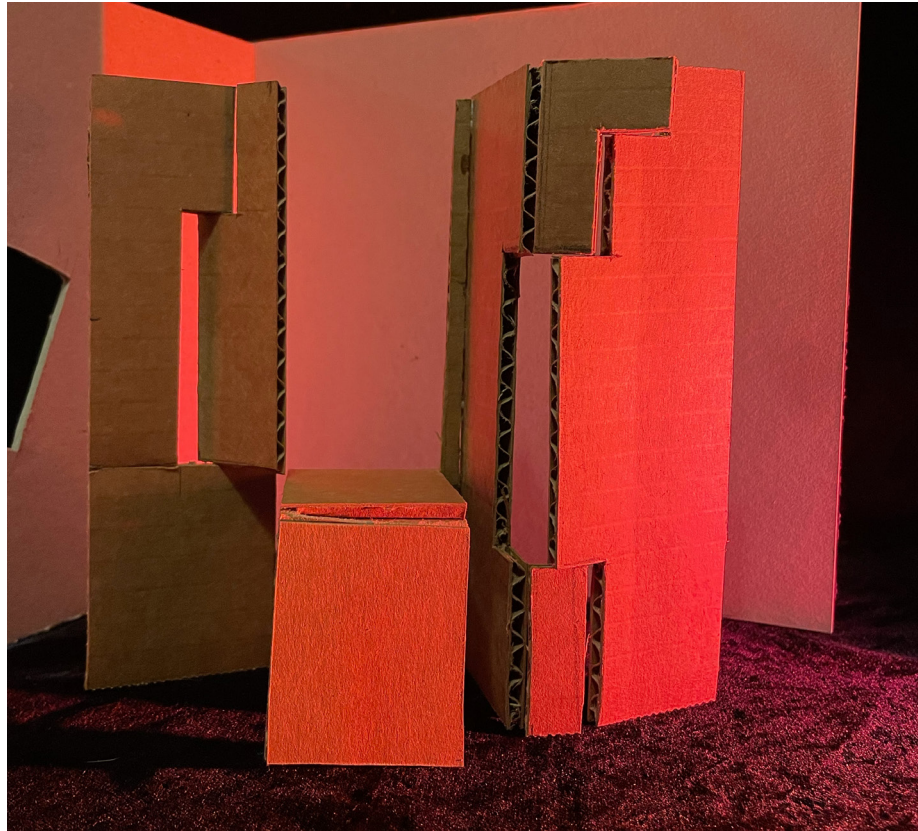
Study Model I



Study Model II



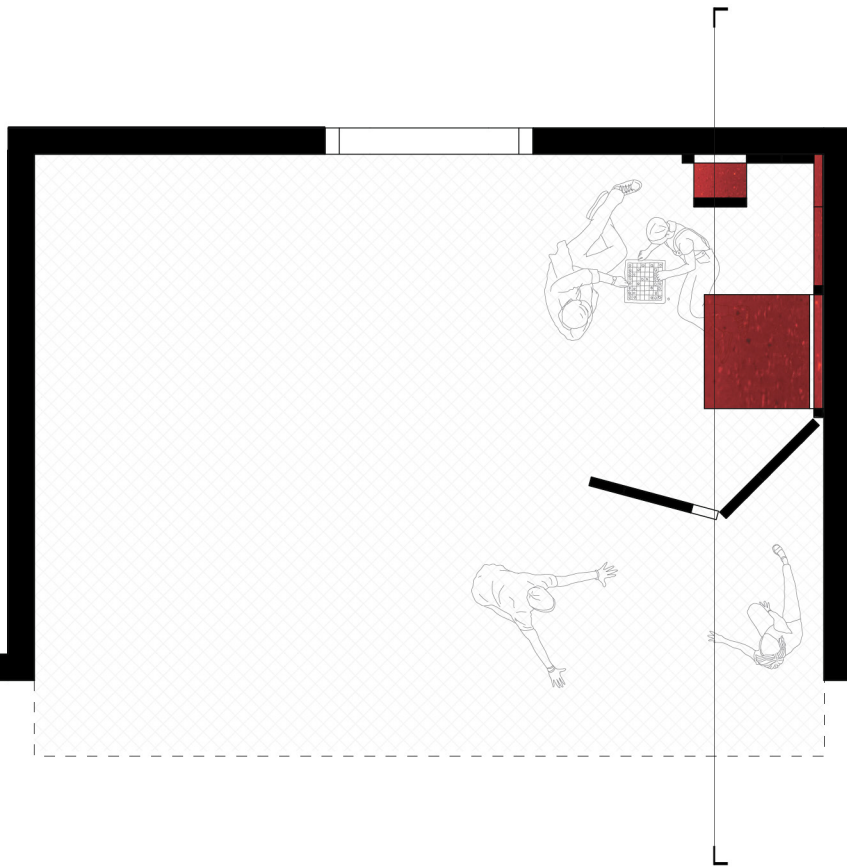
Concept Painting II



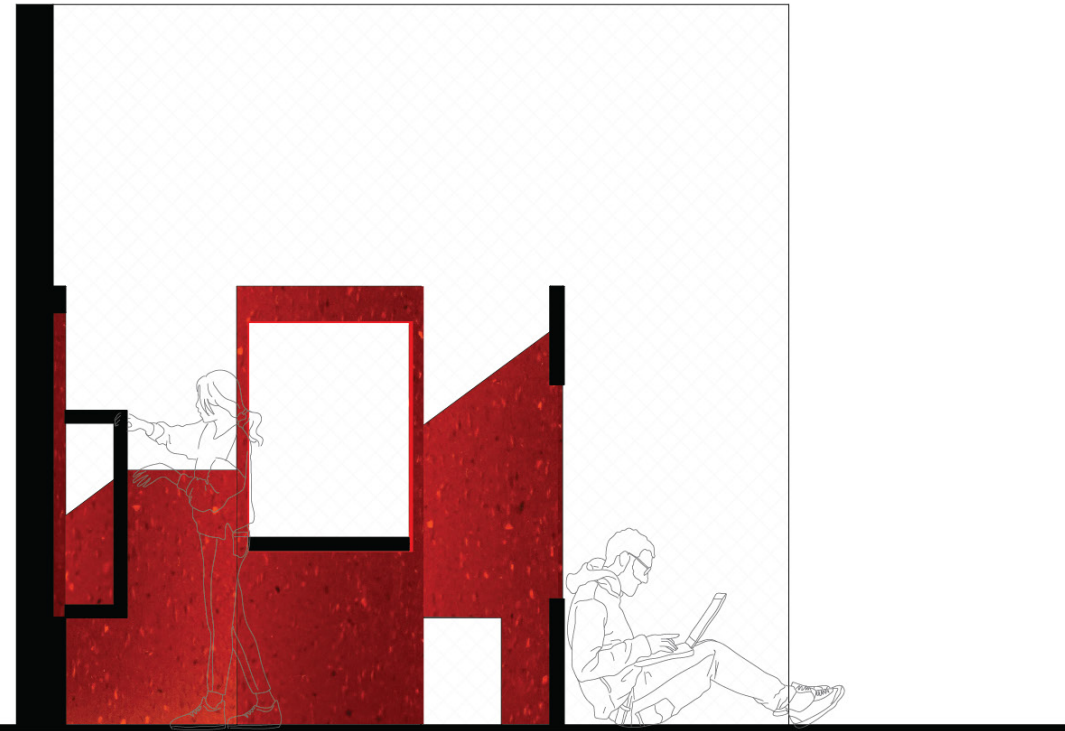
Study Model I



Study Model III



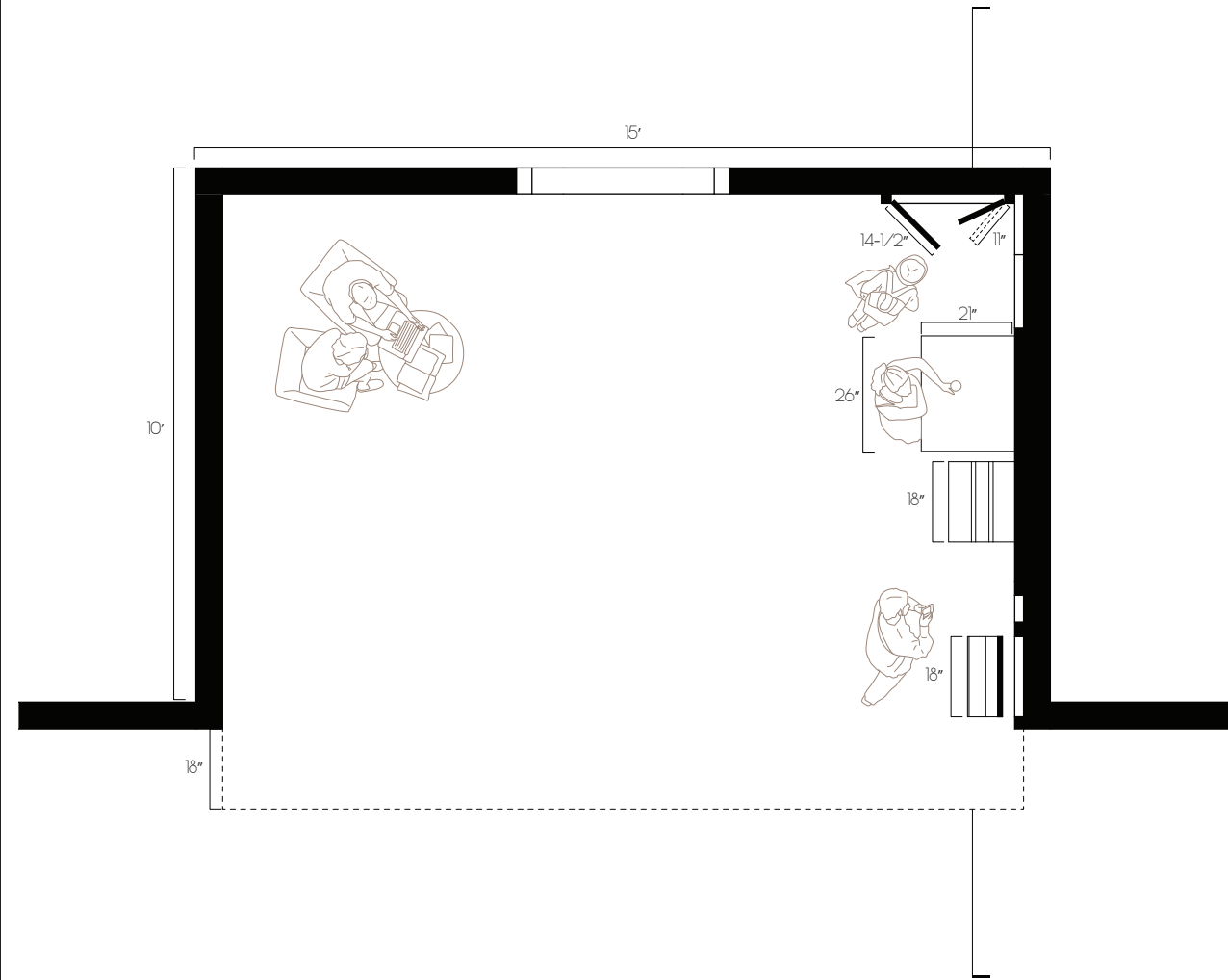
Modular Wall Plan



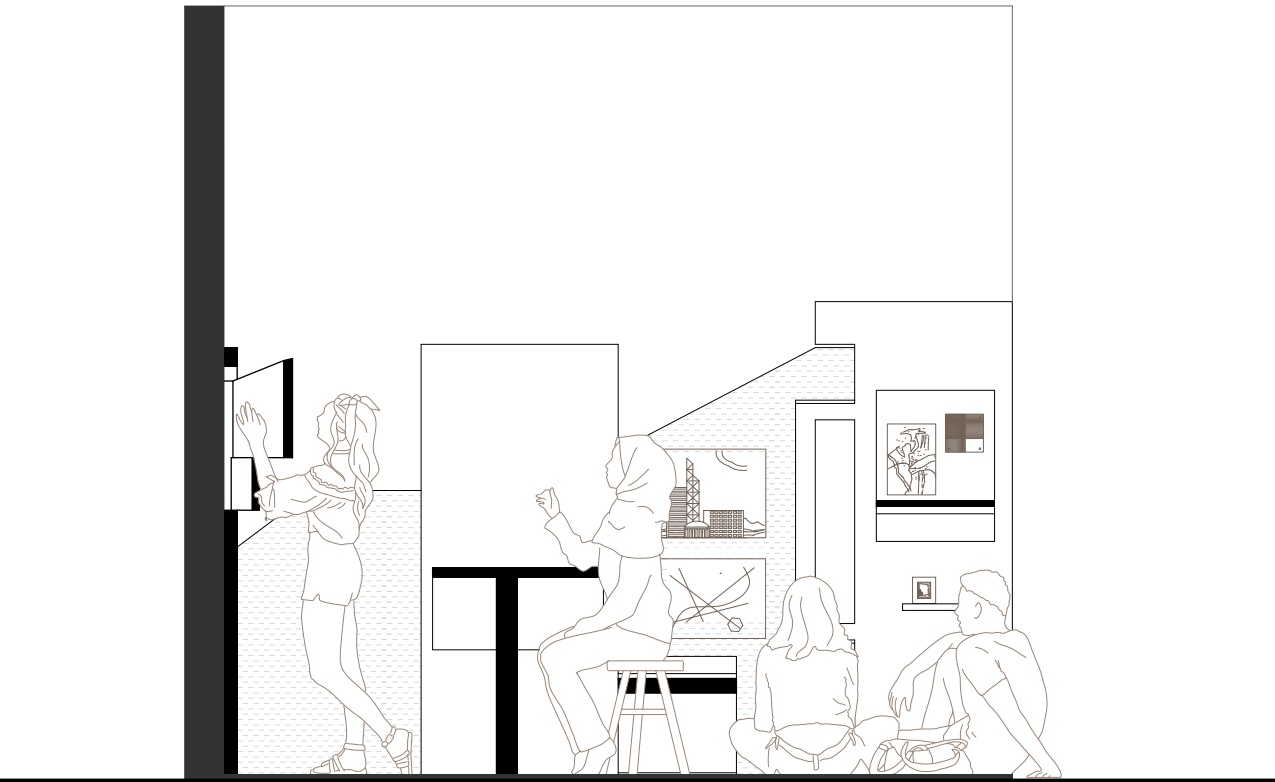
Modular Wall Section



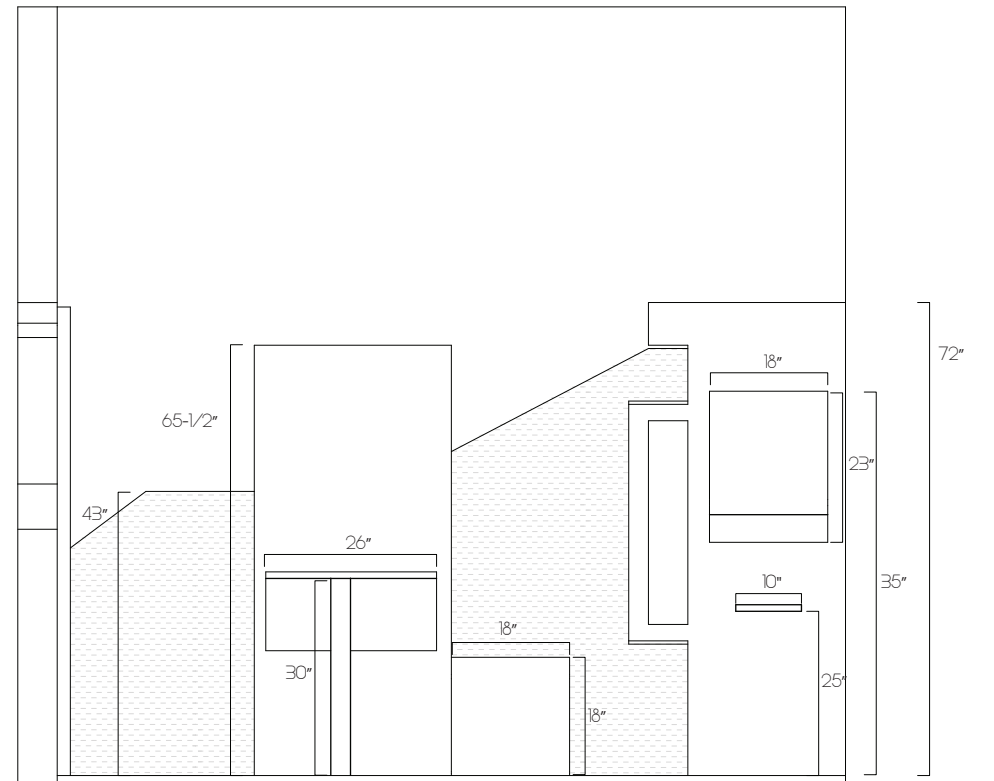
Modular Wall Elevation



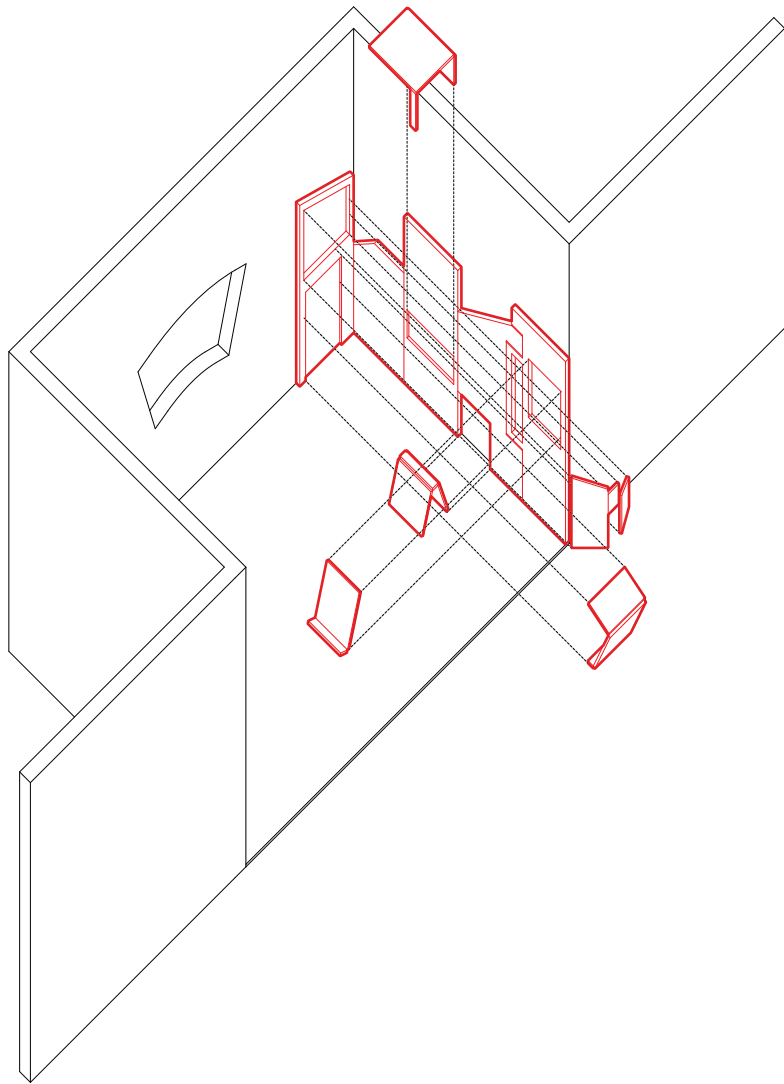
Fragmentform Plan



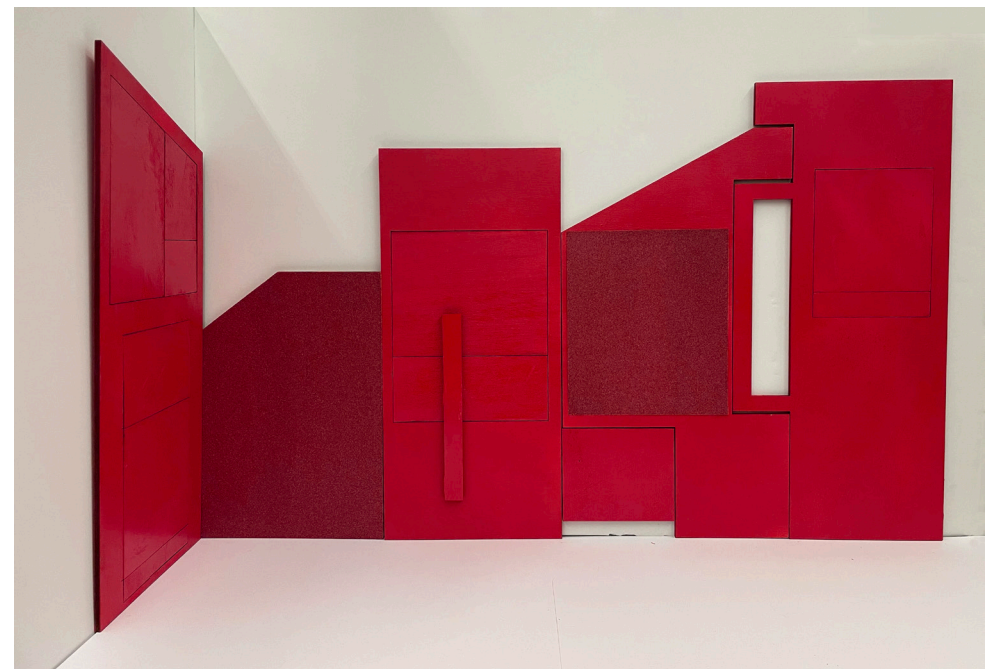
Fragmentform Section



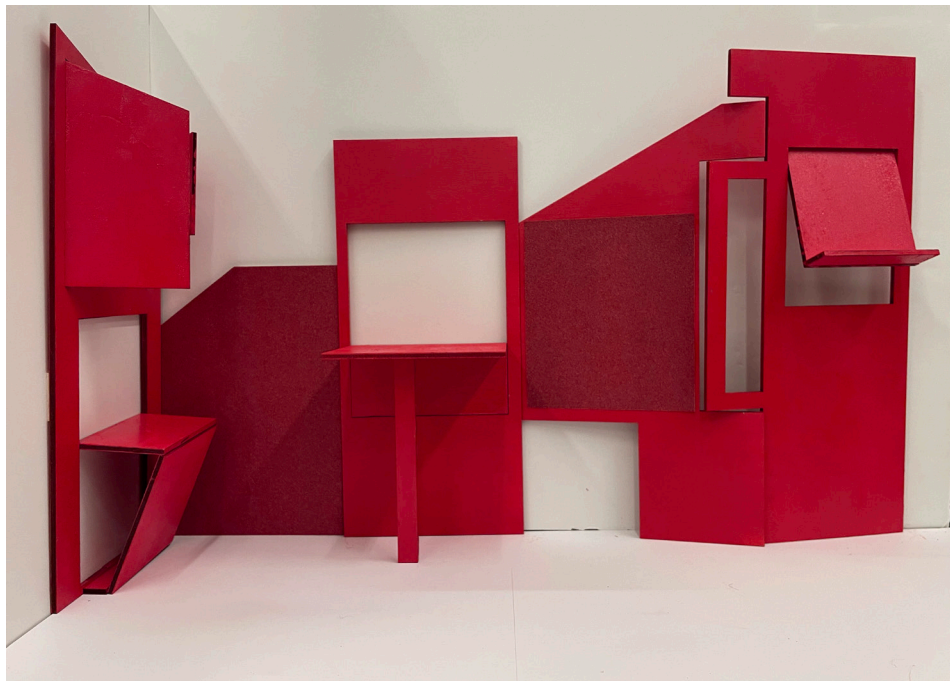
Fragmentform Elevation



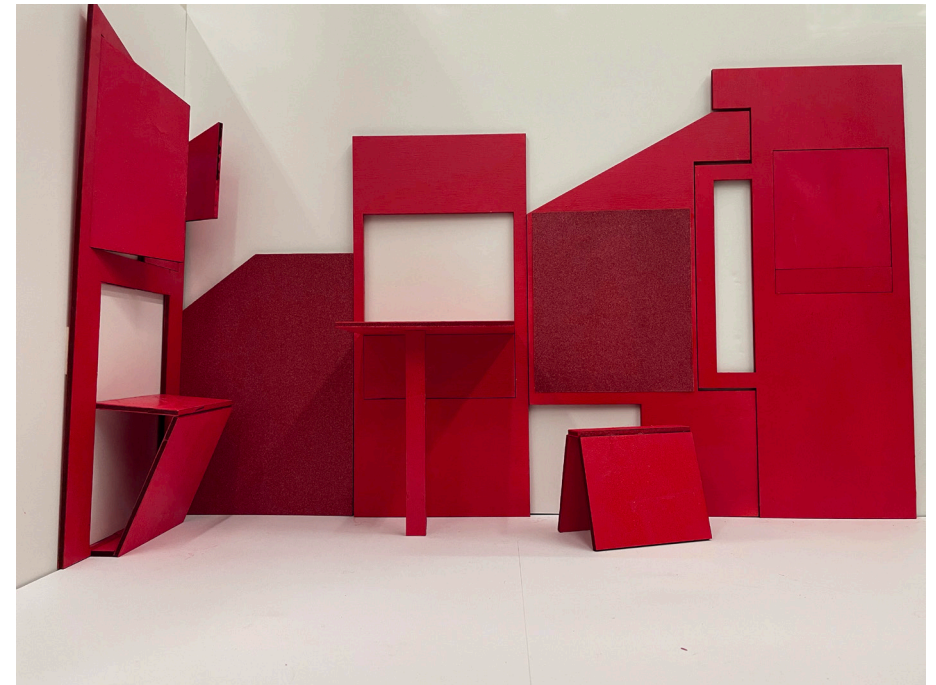
Fragmentform Axonometric



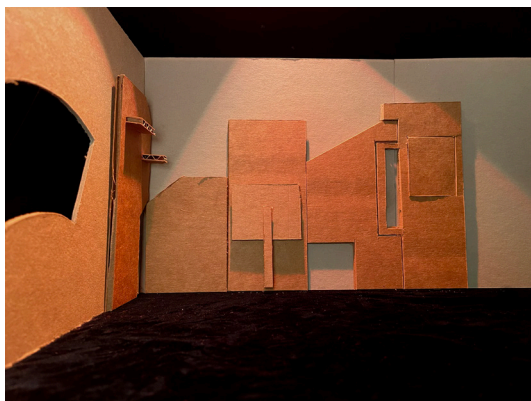
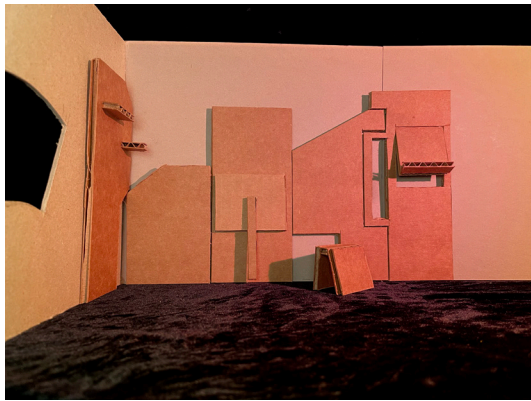
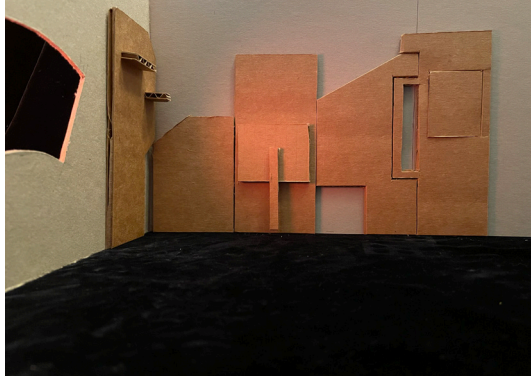
Fragmentform Model



Fragmentform Model



Fragmentform Model



Lighting Concept



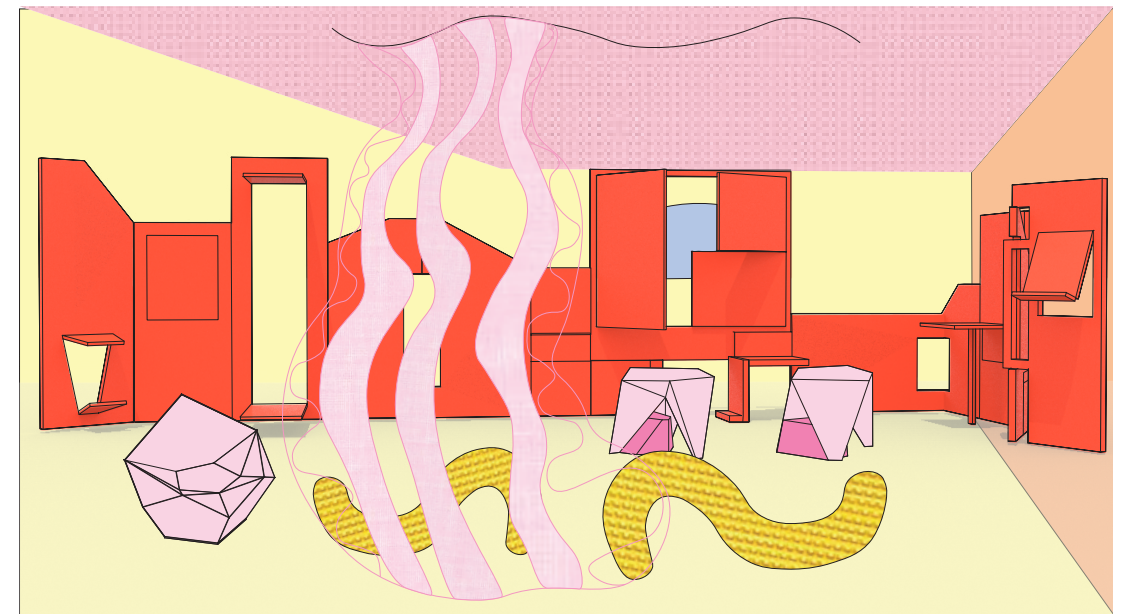
Collective Furniture Study II



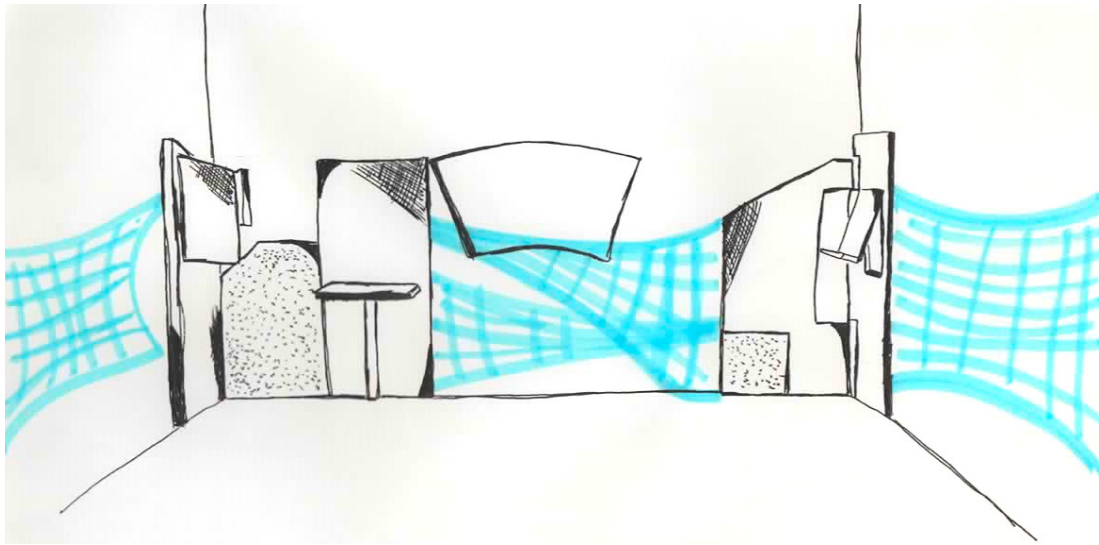
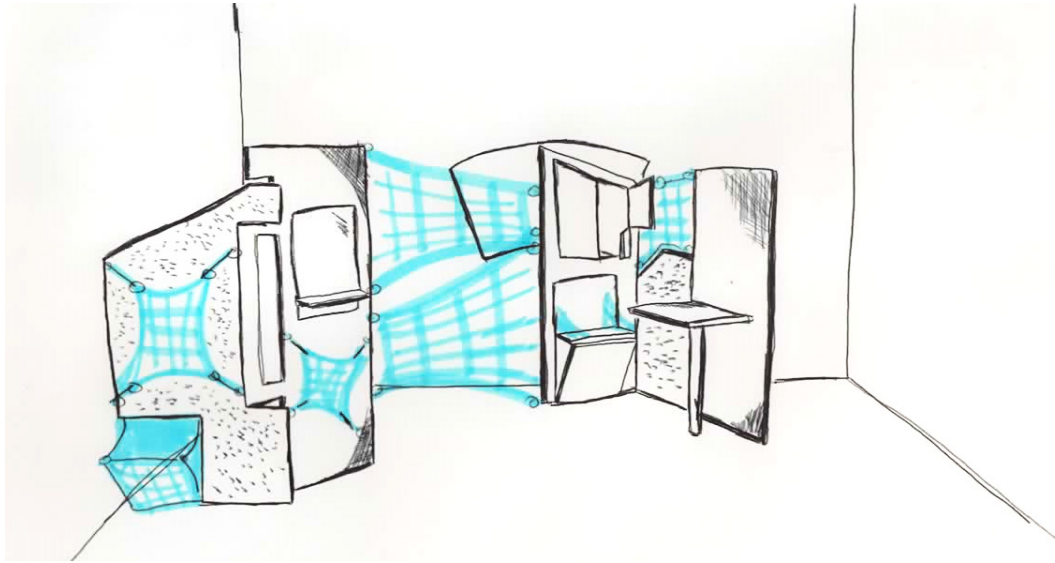
Collective Furniture Study III

Project 03

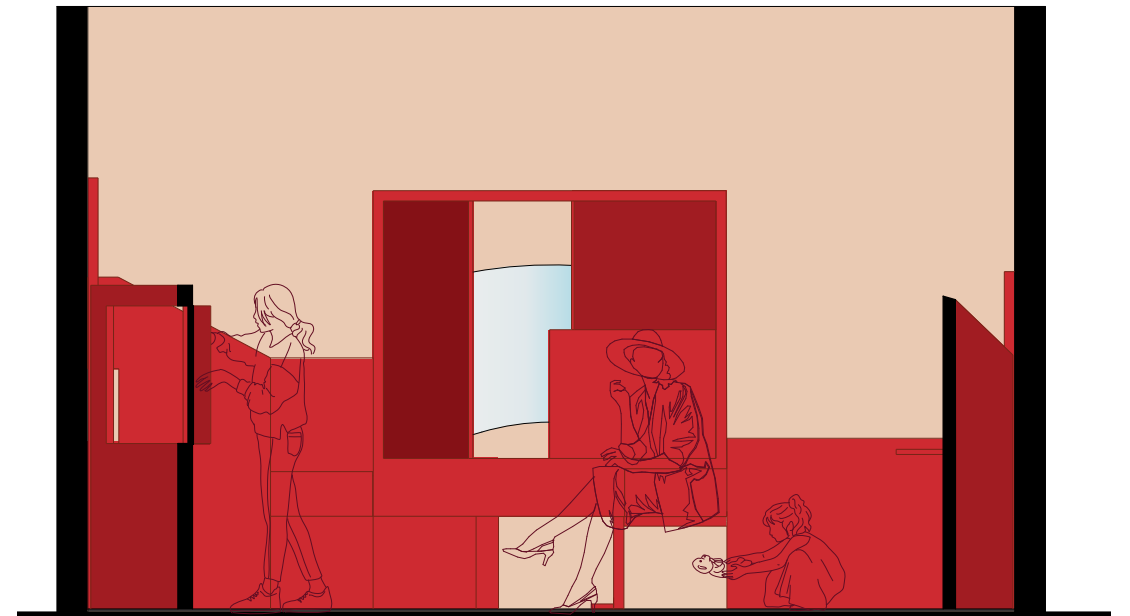
Reviewing our feedback from the midterm review, we recognized the need to expand our project and find collaboration with the web and inflatable group. To do this, we began with many iterations of the expanded panels, trying to keep the line interesting while maintaining its elegance. The biggest challenge for us was to figure out how to make the panels work for the Barragan window because it required placement on two panels rather than one. Another challenge we faced was the seamless integration of the web and inflatable group onto our wallpaper, but through our collaborative efforts we designed this solution in which the wallpaper acts as a home for those projects to reside in when not in use.



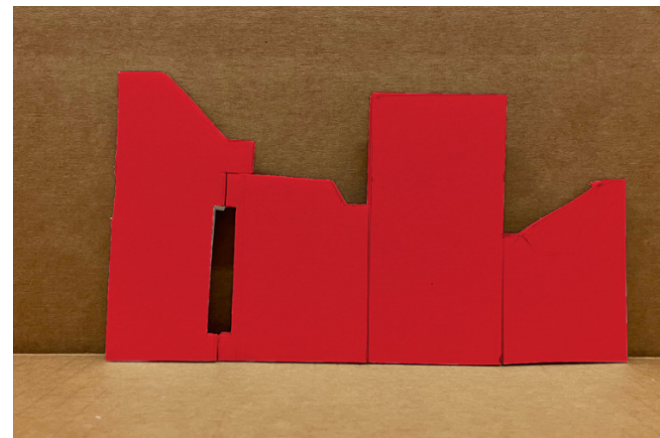
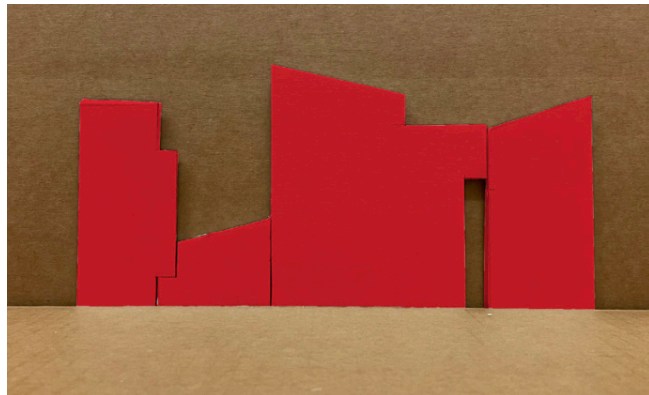
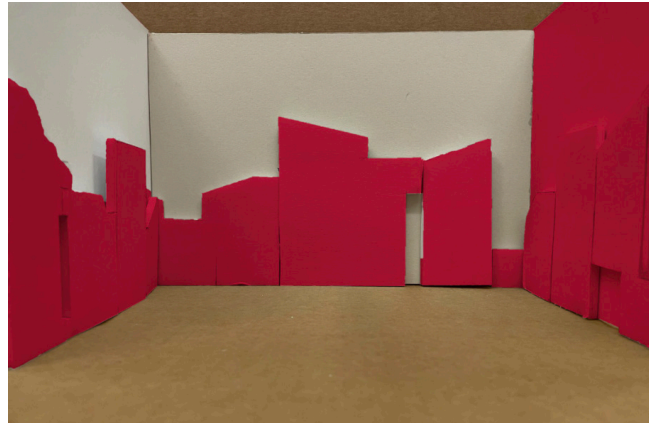
Color Study



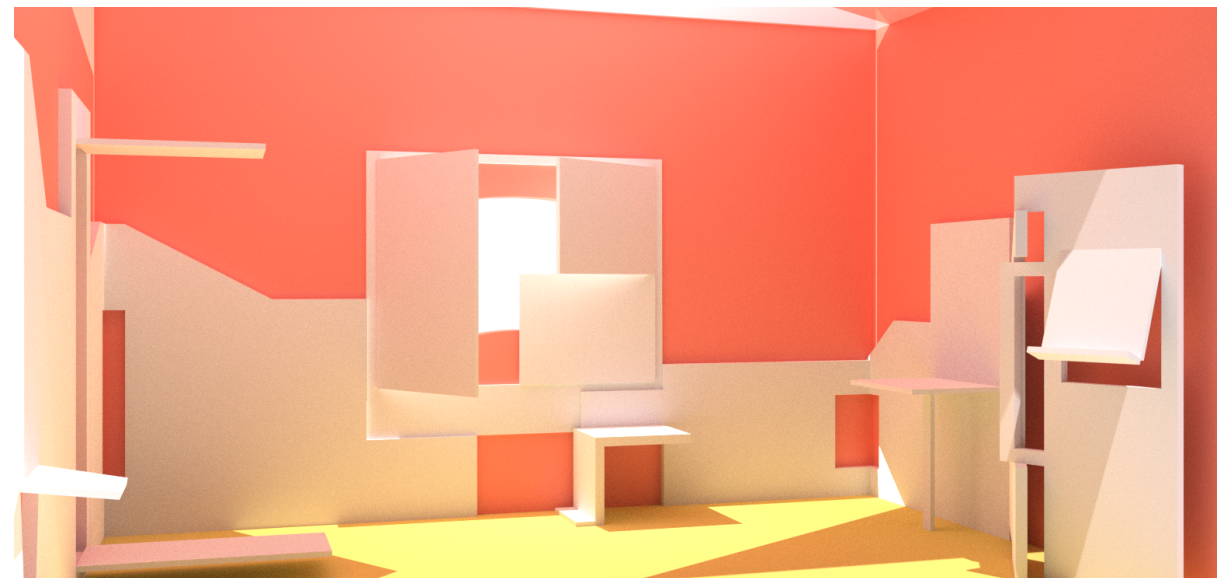
Web + Wallpaper Integration



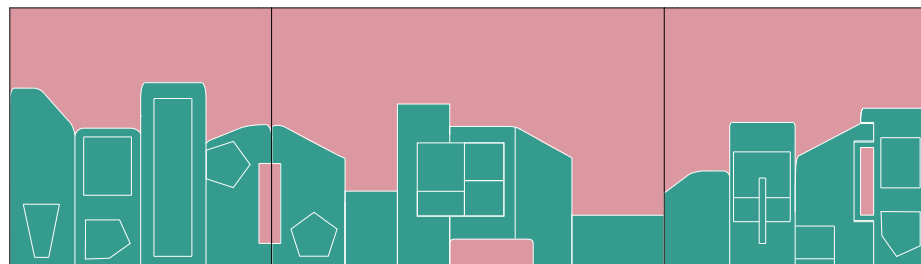
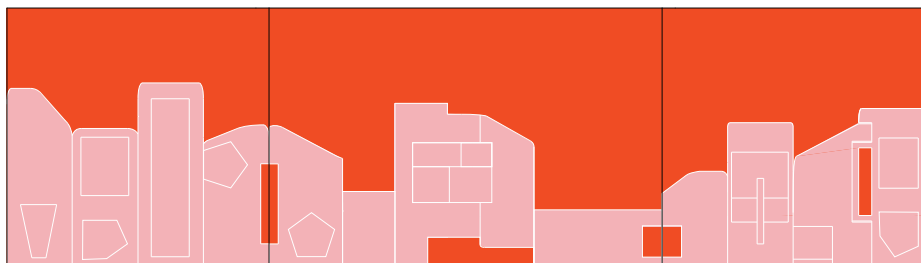
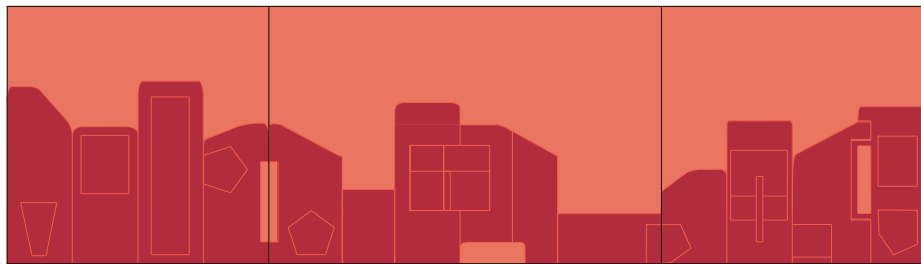
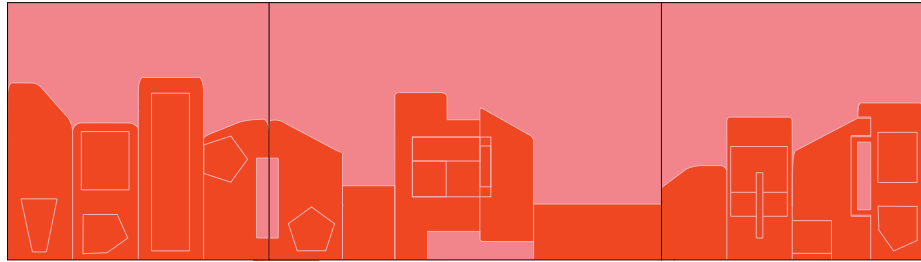
Section



Study Models for Left Wall



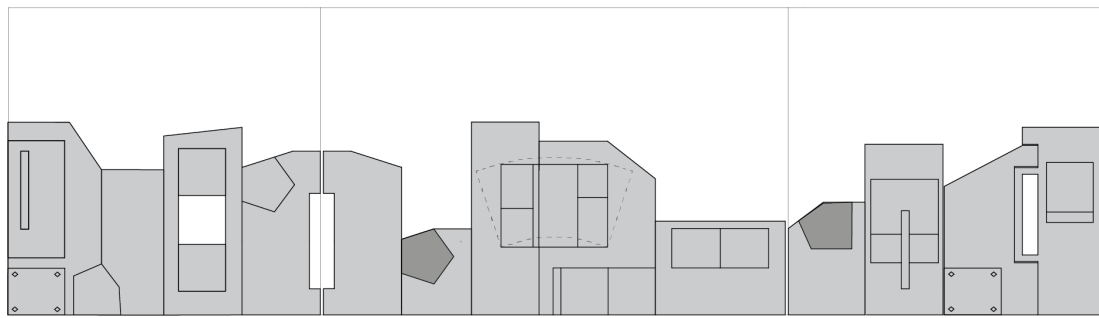
Window Study



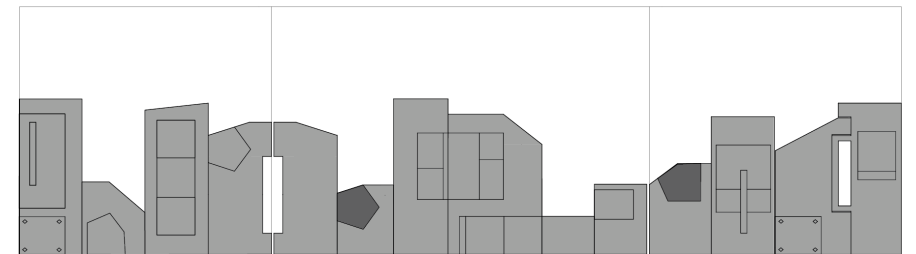
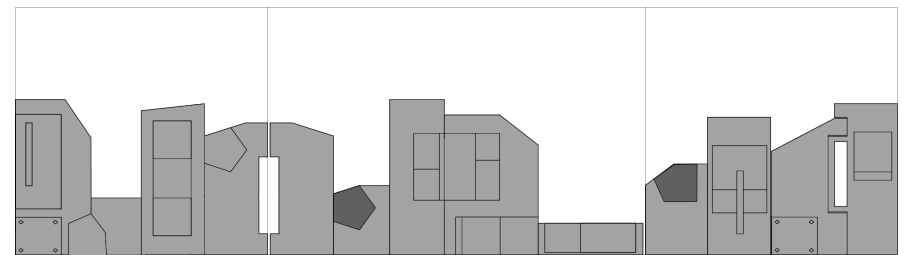
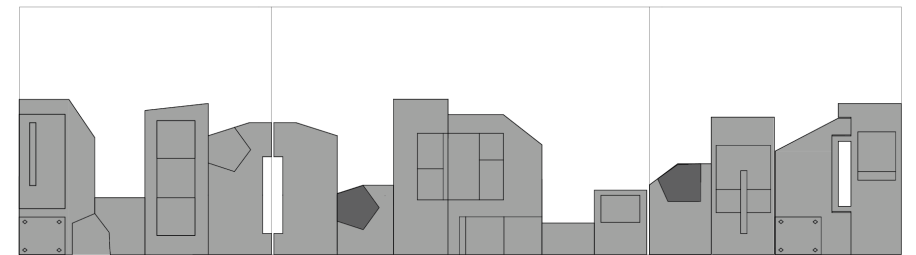
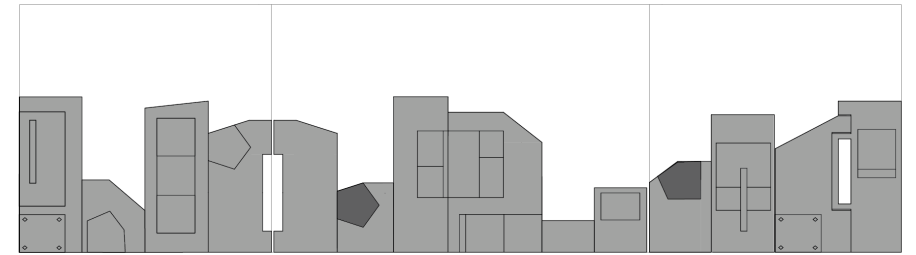
Color Study/Wallpaper Iterations



Wallpaper Iteration

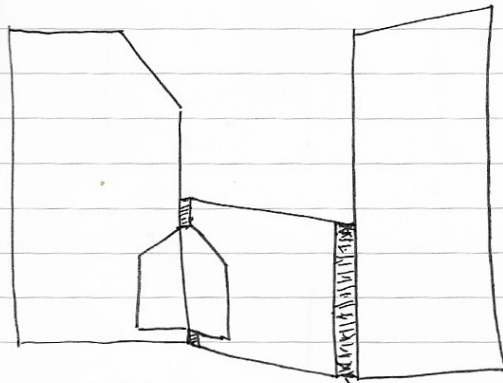
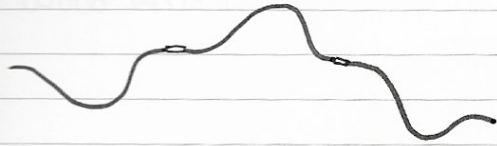


Wallpaper Iteration

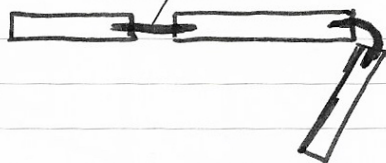


Wallpaper Iterations

Eames screen: plywood + cotton bands



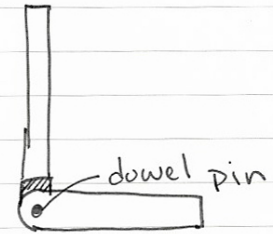
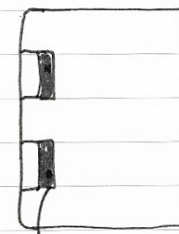
woven polypropylene mesh (Eames)



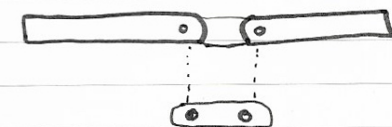
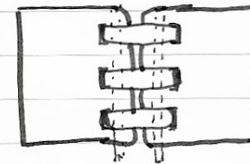
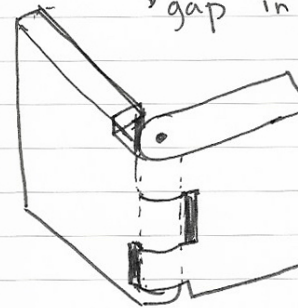
- band material can also be the same material as the web fabric

Hinge Option I

Full rotation wooden hinge



gap in between

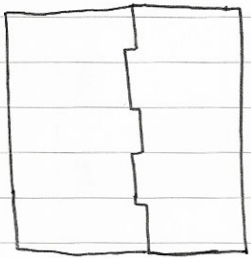


- this version is highly decorative

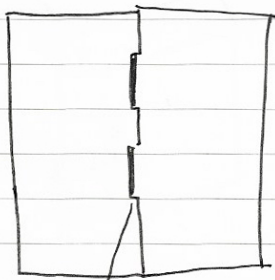
Hinge Option II

Hidden wooden hinge

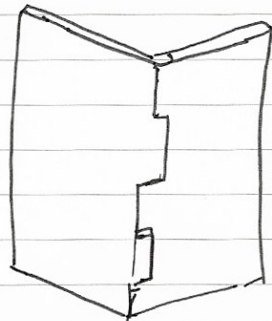
- requires dowel jig / drill bit?
- Rob Cosman technique



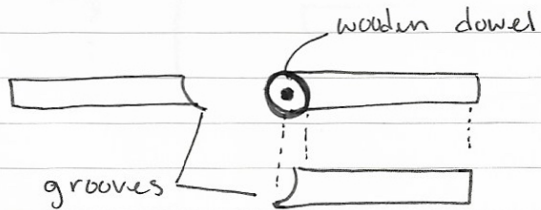
back side of hinge



tiny hole when open (back)



completely hidden at 90°



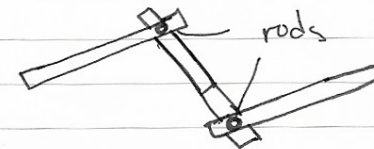
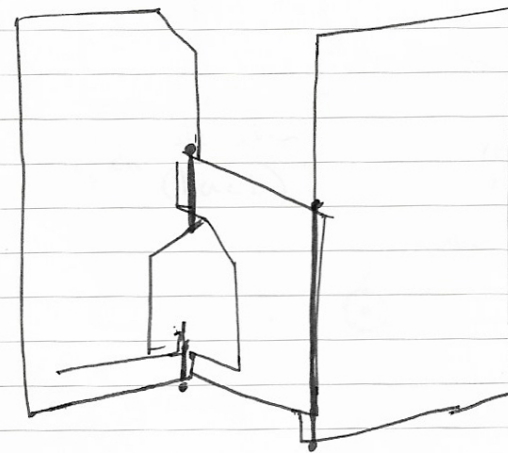
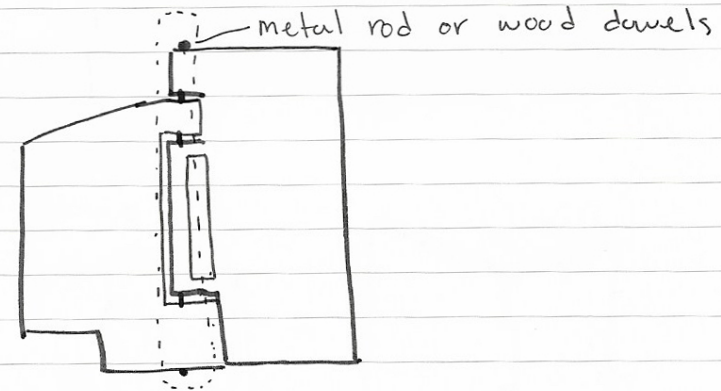
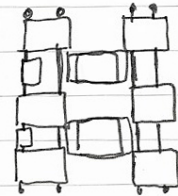
wooden dowel

grooves

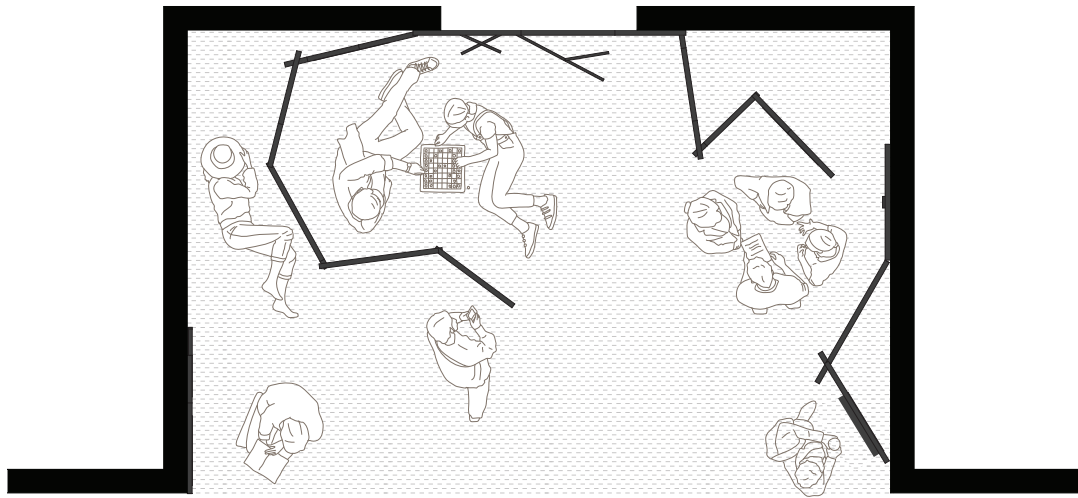
Hinge Option III

Eileen Gray screen

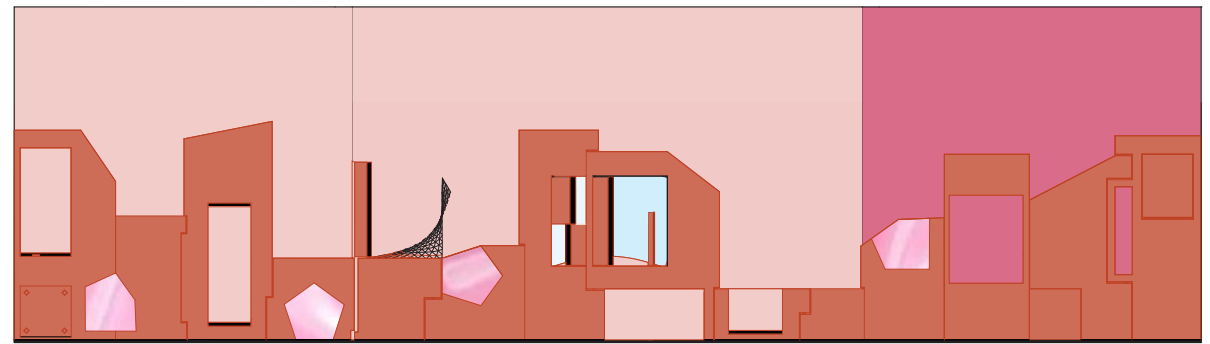
- wood and metal rods



Hinge Option IV



Plan



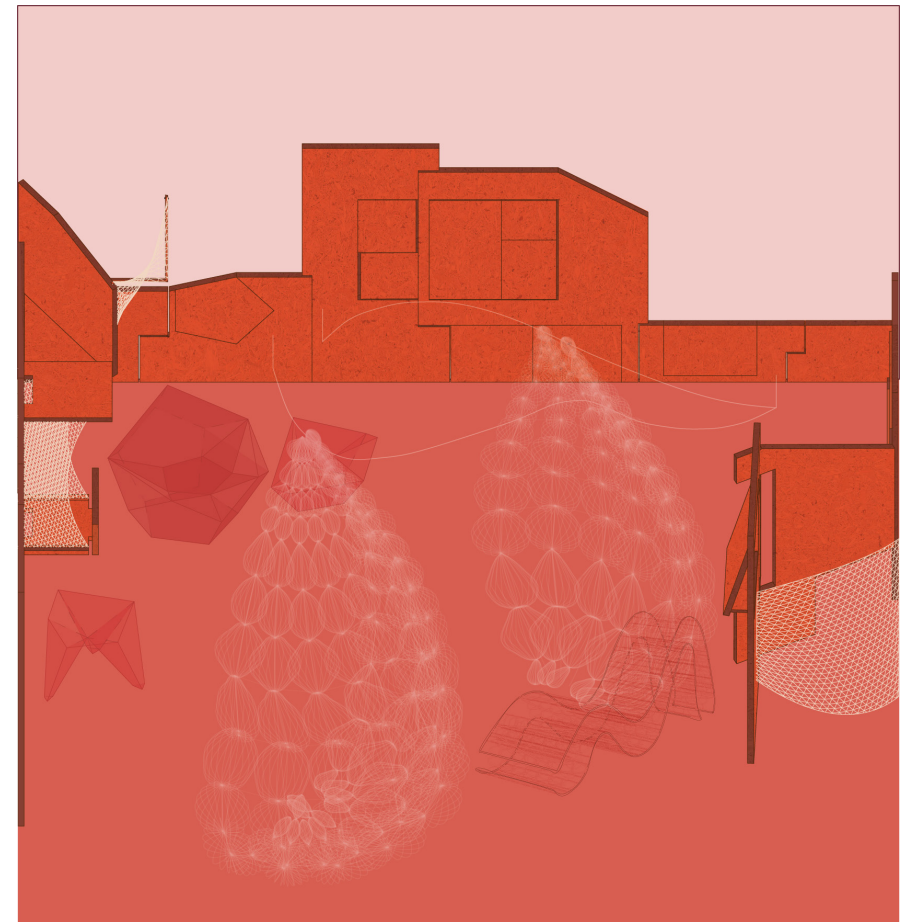
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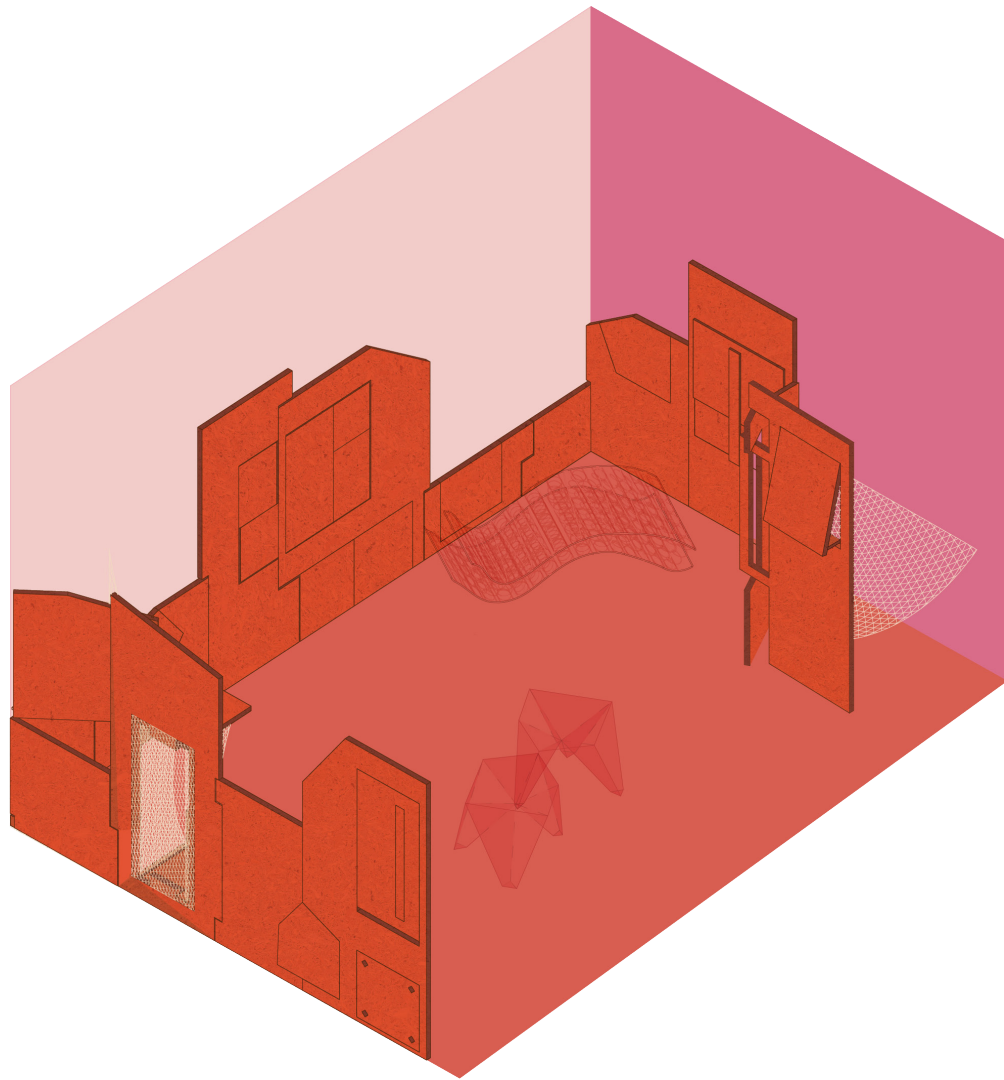
Elevation w/ Color



Elevation



Axonometric of Entire Room



Axonometric of Wallpaper



Perspective

Detail Drawings

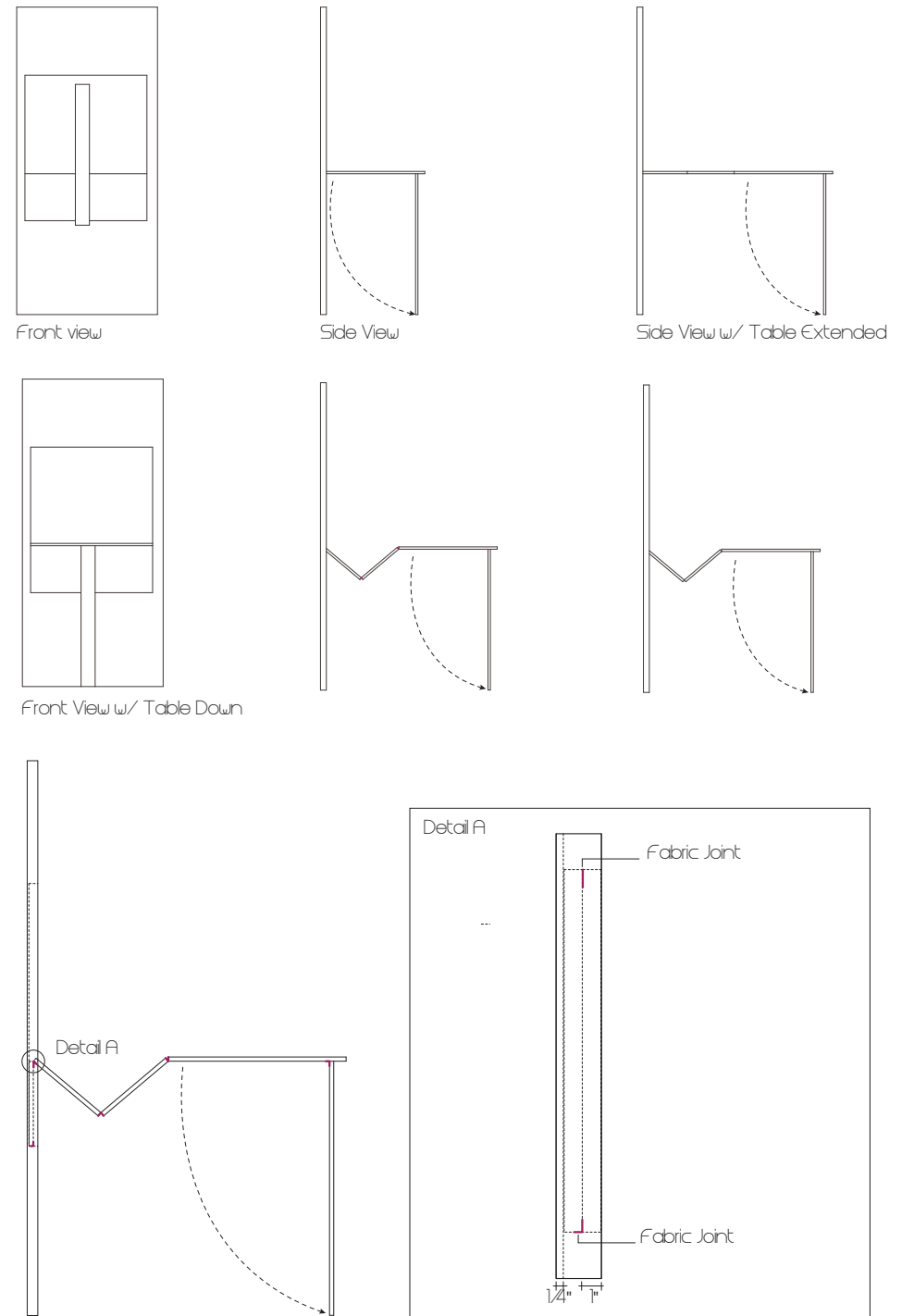


Table | Detail

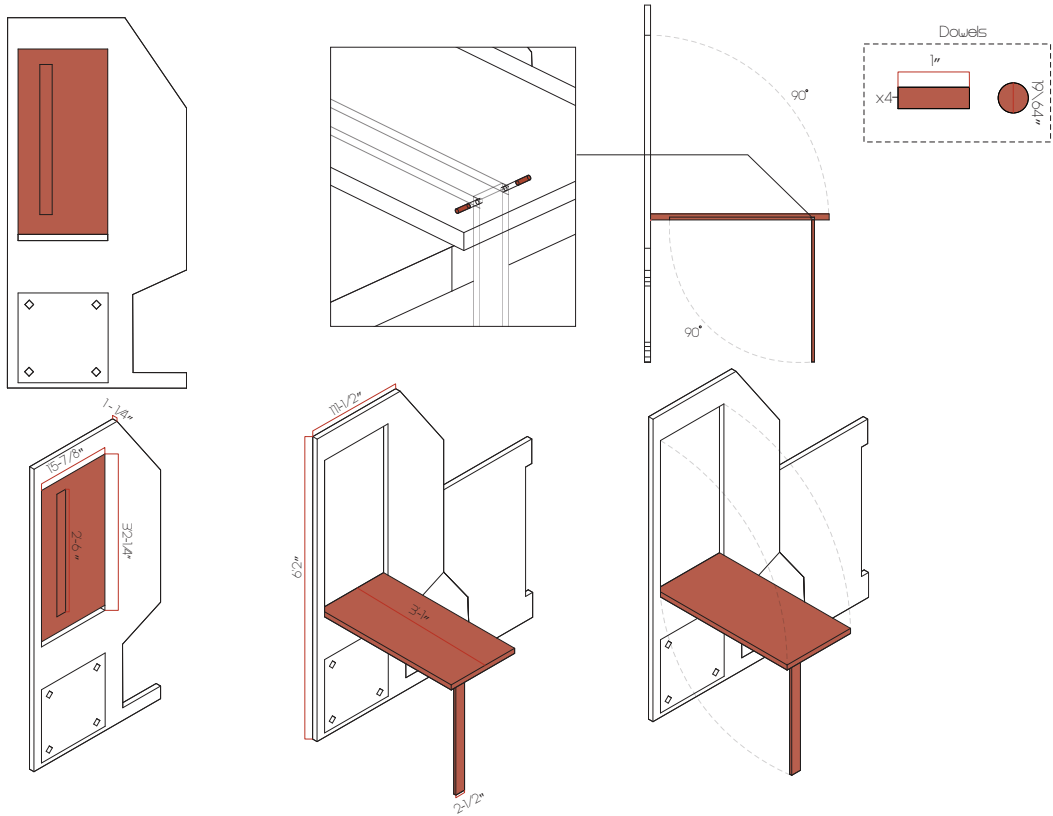
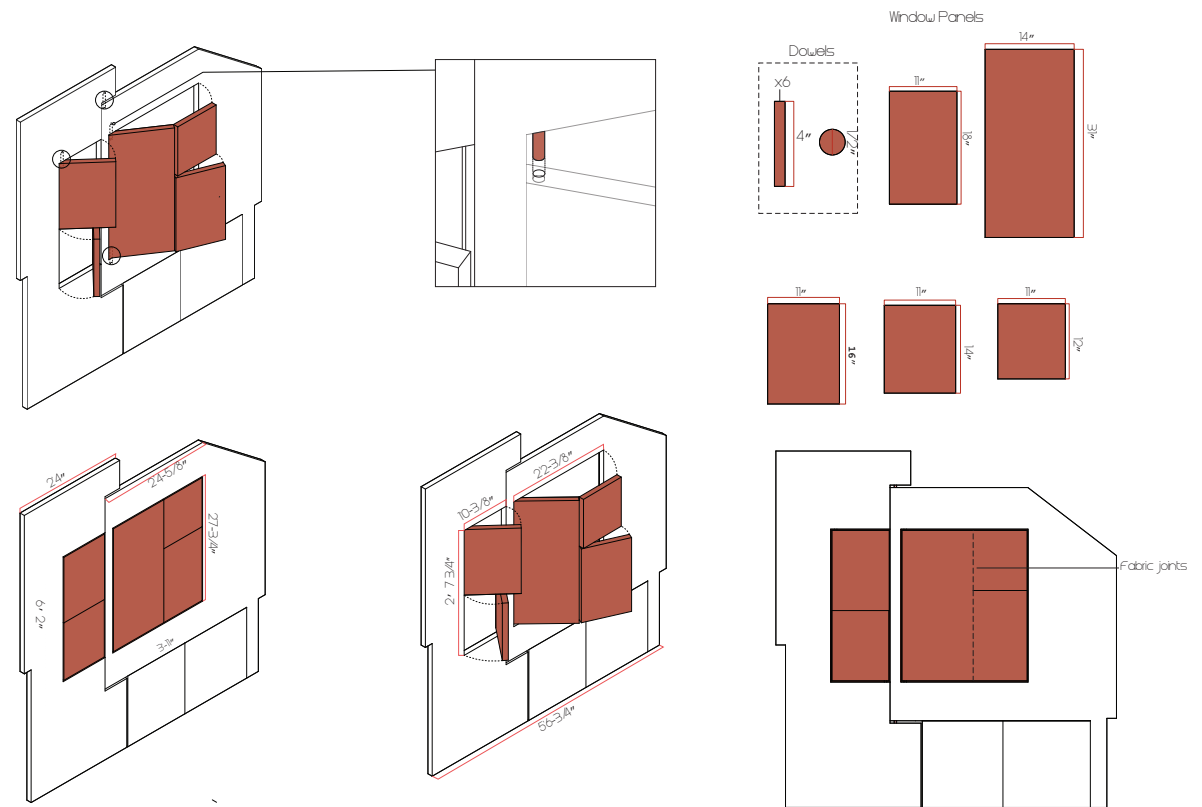
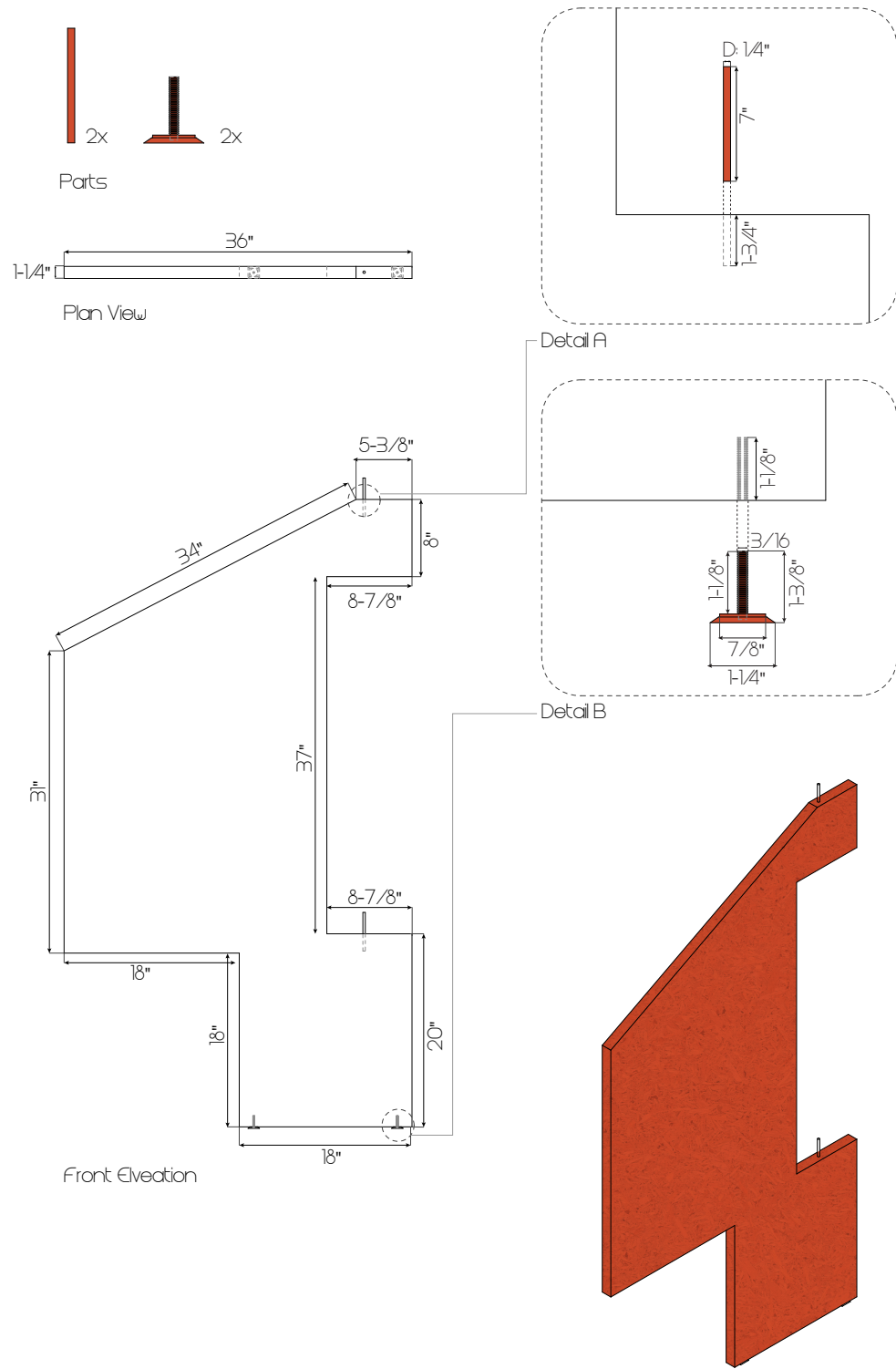


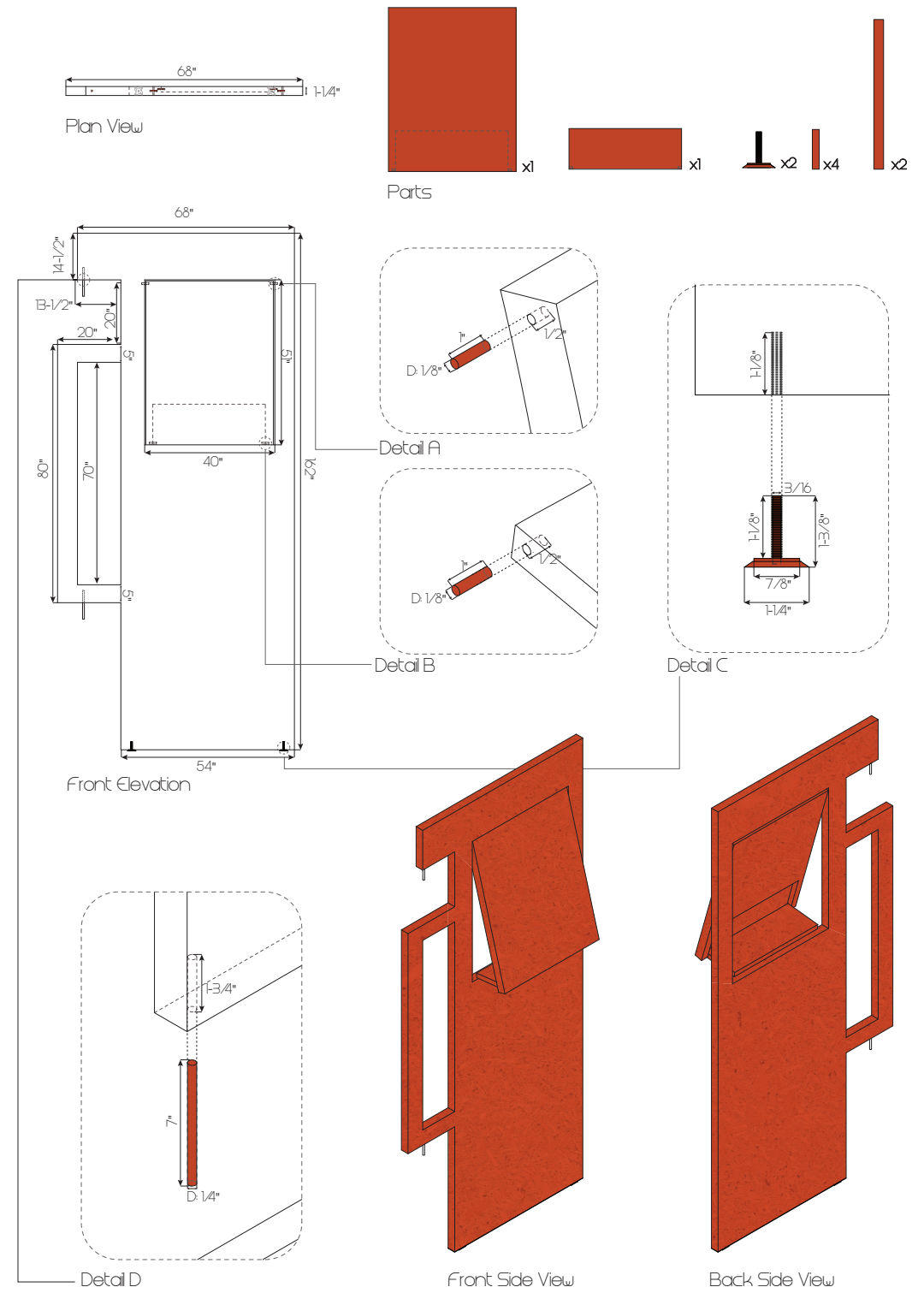
Table II Detail



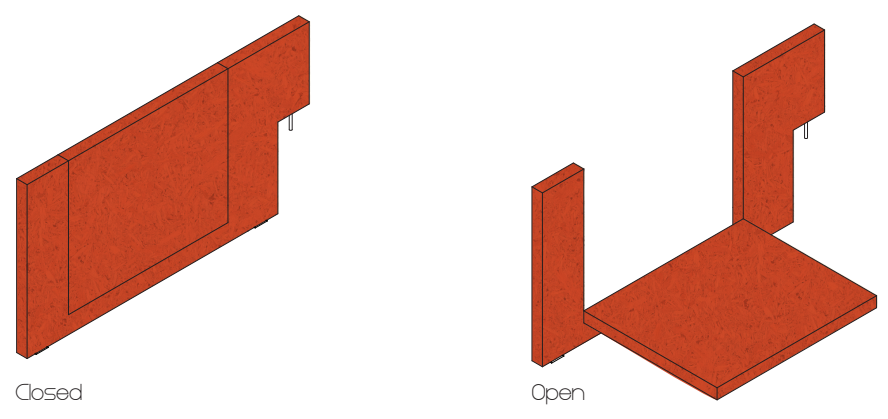
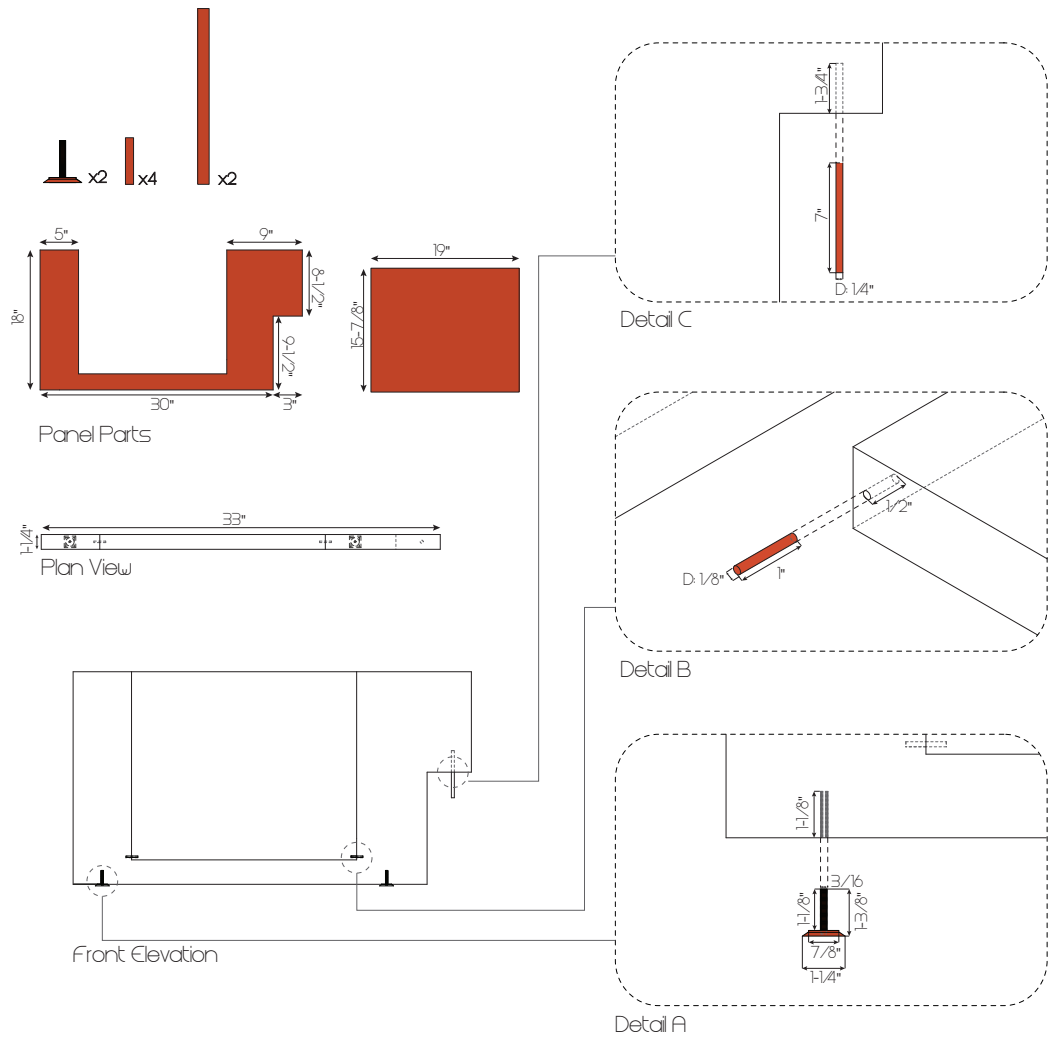
Window Detail



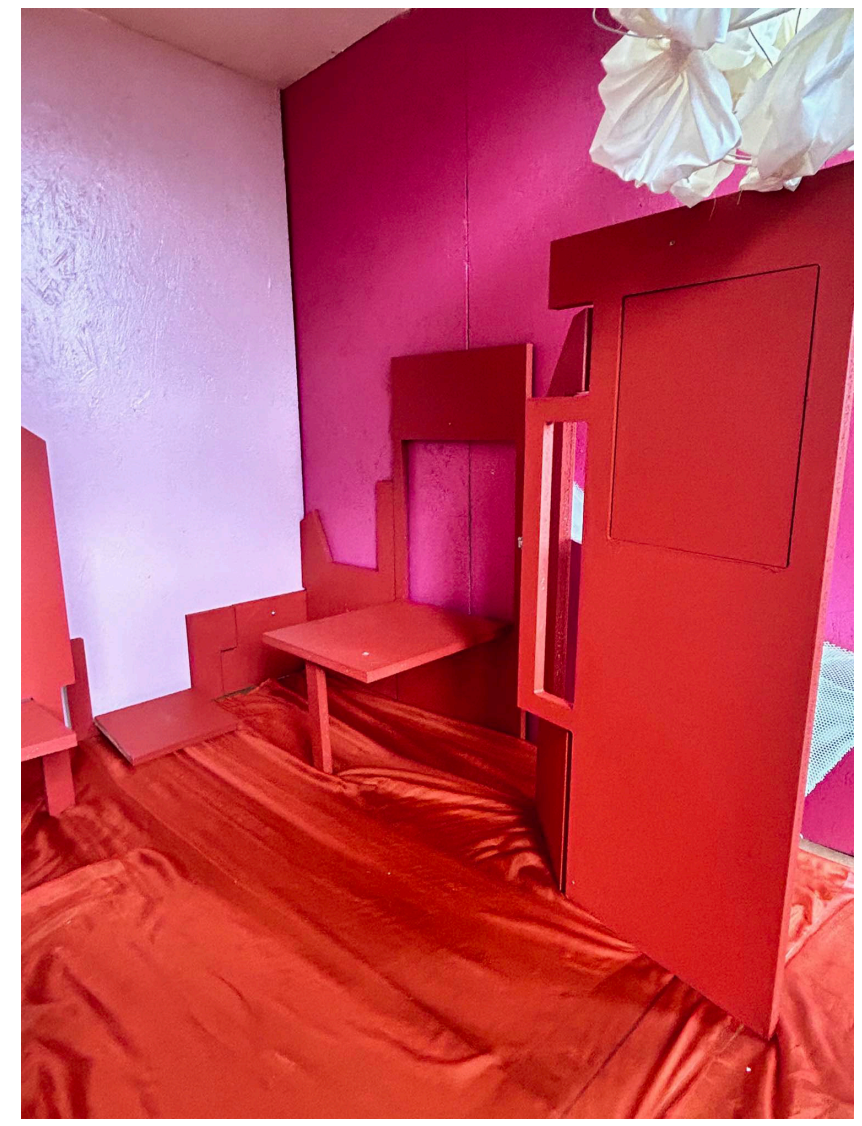
Panel Detail



Panel Detail



Panel Detail



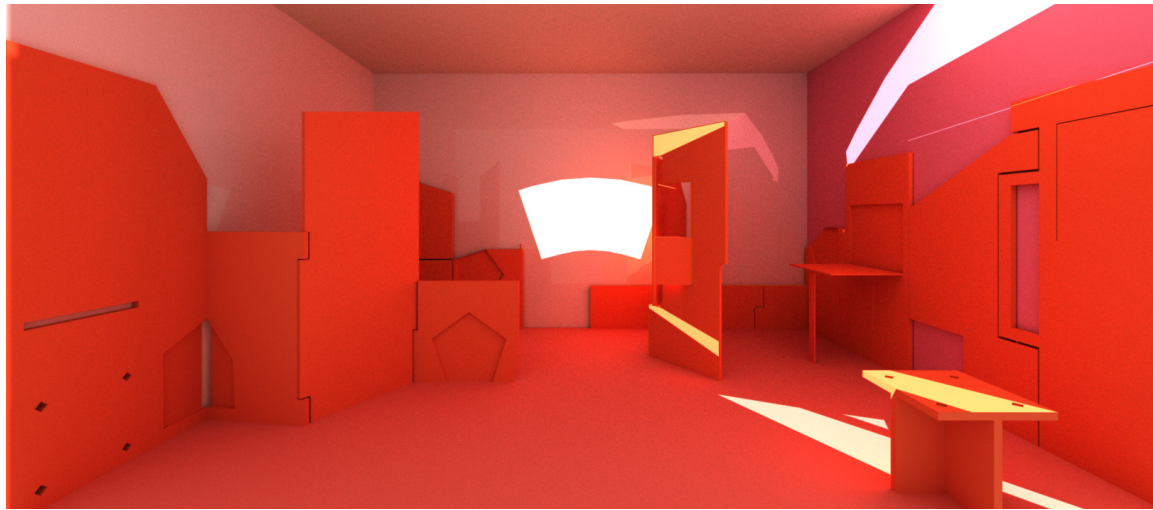
Close-up Model



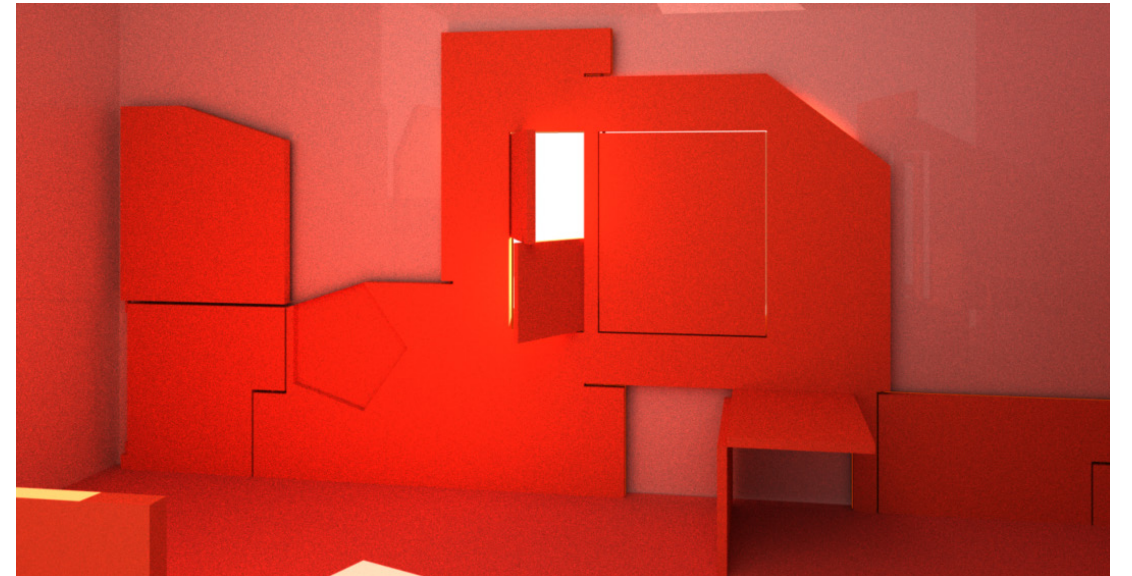
Final Model



Final Model



Render



Close-up Render