

KRITAMUK CHIRAAMPHAIRAT

17018677

INTERIOR DESIGN

2018 - 2020



- Longchamp Staircase
- Barcelona Chair
- Appendix
- Pavilion
- Domino House
- Foundhea (retail)

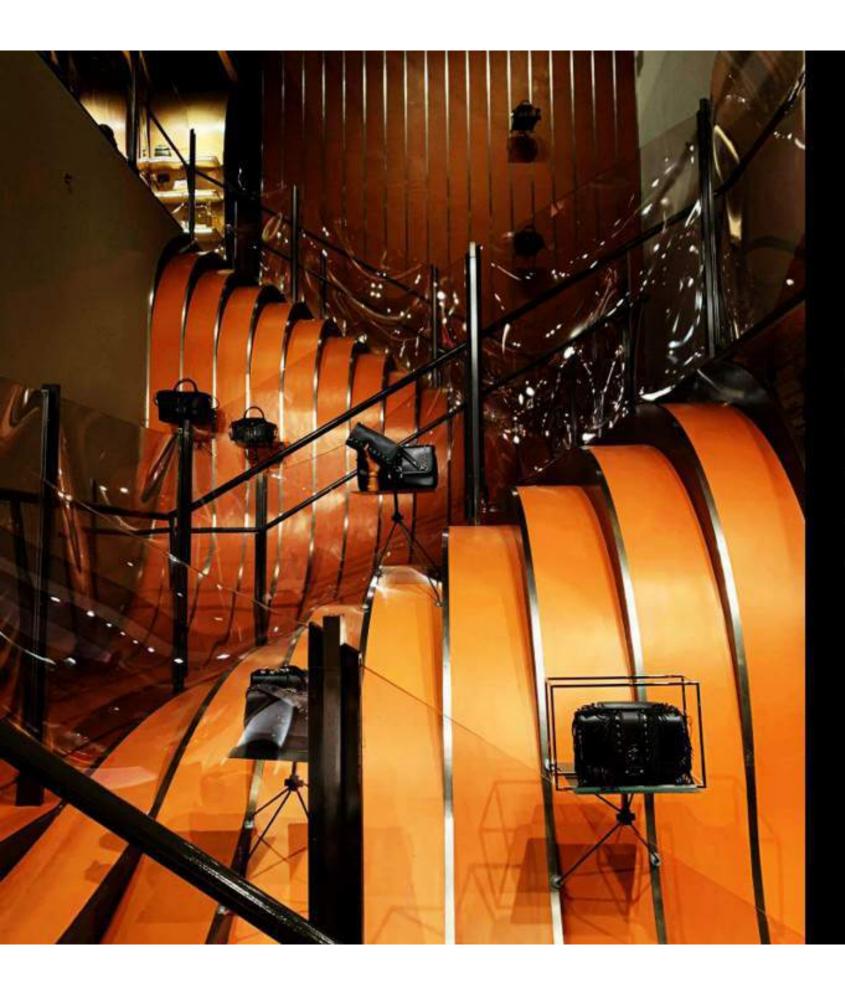


PROFESSIONAL PRACTICE DOCUMENT

KRITAMUK CHIRAAMPHAIRAT







Longchamp New York Thomas Heatherwick

Group 6

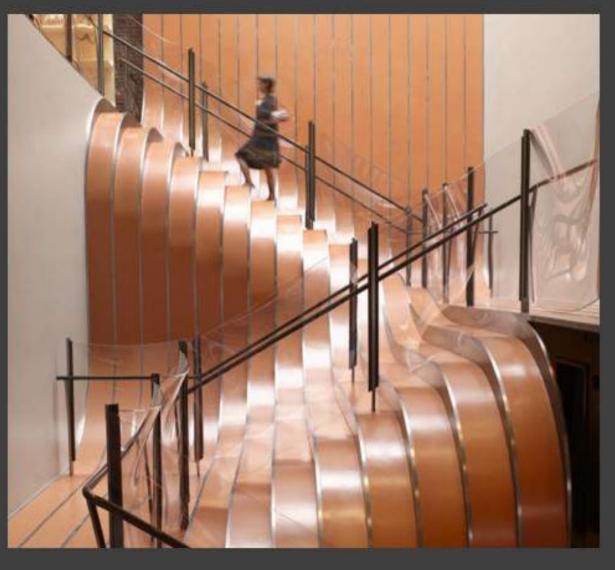
Tiffany Yu-Ching Huang

Chokun Kritamuk Chiraamphairat

Karmen Odor

Maria Todirascu

Content



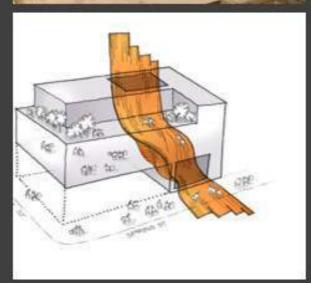






- · Thomas Heatherwick
- Longchamp staircase, New York City
- Design style
- Form and Functions
- Materiality
- Spatial Quality
- · Related Design
- After Visting Longchamp Staircase
- · Final Outcome
- References



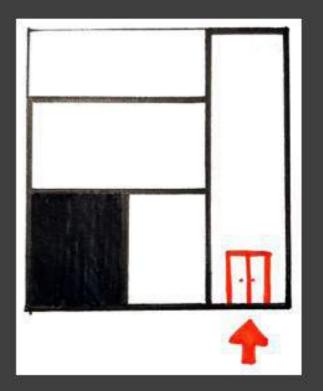


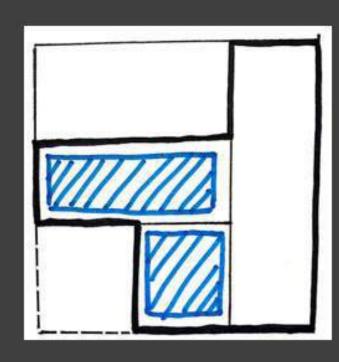
Thomas Heatherwick

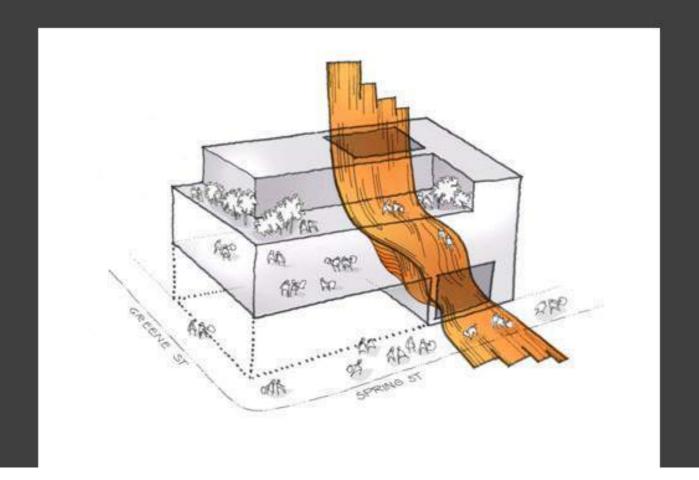
- An architect/ designer
- Has his own studio in central London in 1994
- · Focusing on materials and making
- · His design is characterized by its ingenuity, inventiveness and originality
- Has been appointed a Commander of the Order of the British Empire, a Royal Academician and in 2004 become the youngest Royal Designer for Industry
- The studio aim to bring the practices of design, architecture and urban planning together in a single workspace

Longchamp Staircase New York City

- It is located on a corner in SoHo (Two-Storey structure).
- Three-storey structure: the ground floor, the first floor retail space and the wholescale showroom.
- · Catch people attention from street.
- Create the feeling that people are below ground and needed to make their way to the surface.







Design style

Modernism.

'Working as practical inventors with no signature style, our motivation is to design soulful and interesting places which embrace and celebrate the complexities of the real world.'

Form & Function

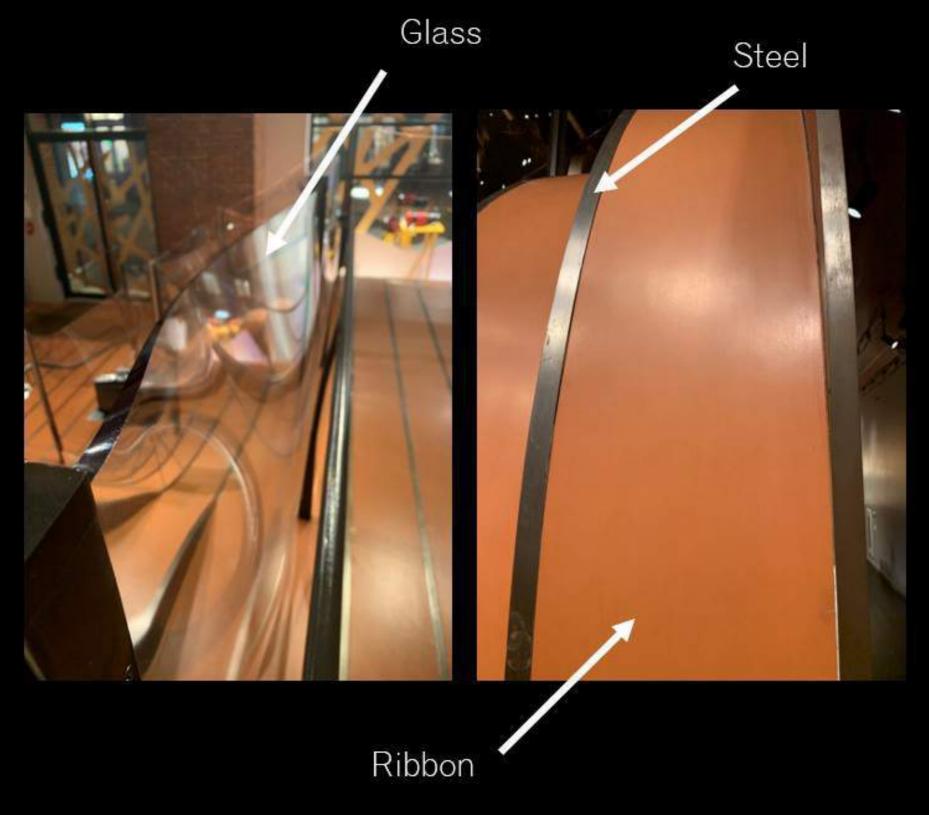
- Make people feel they were underground, so they need to go upstairs.
- Accommodate a showroom and garden terrace.
- There is also the sense of a downward flow, like a waterfall falling from the skylight, dropping through the stores, bouncing over it's big, generous curved surfaces, becoming stairs and landing and more stairs.



Materiality

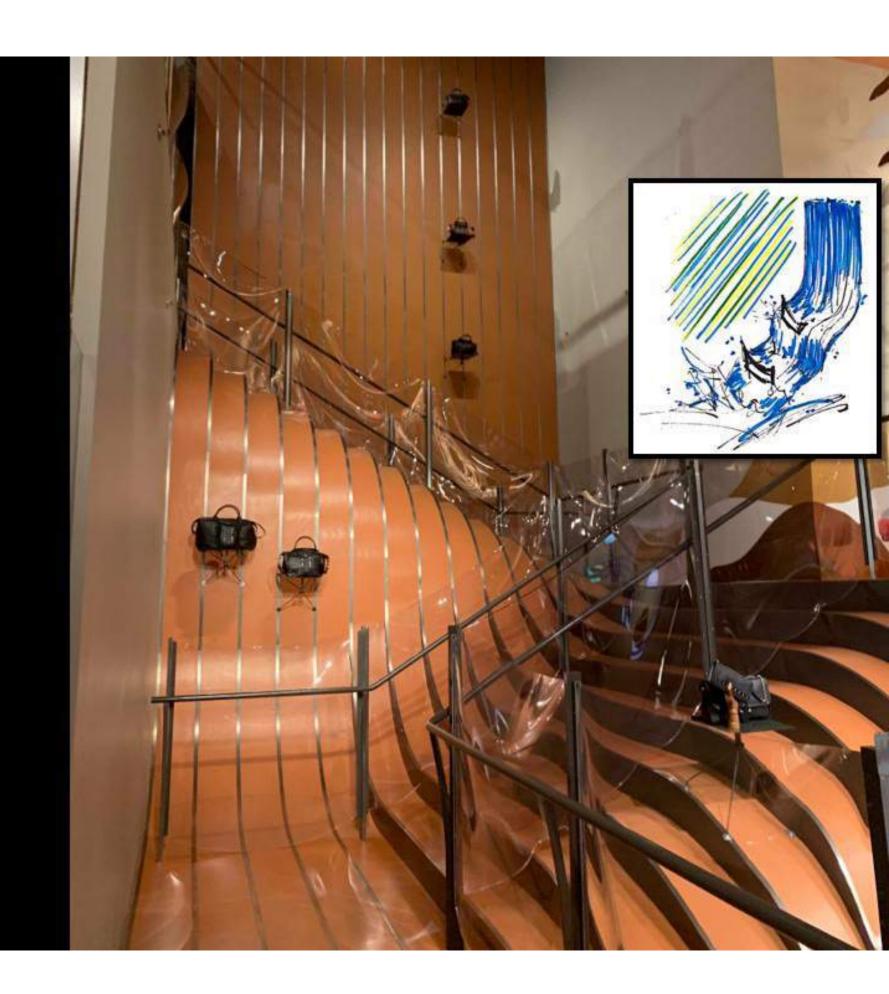
- Ribbons (used a series of ribbons, the width of steps, to make a landscape that flows in two directions.)
- Glass
- Steel (One-inch-thick steel plate)
- Weighs 60 tones

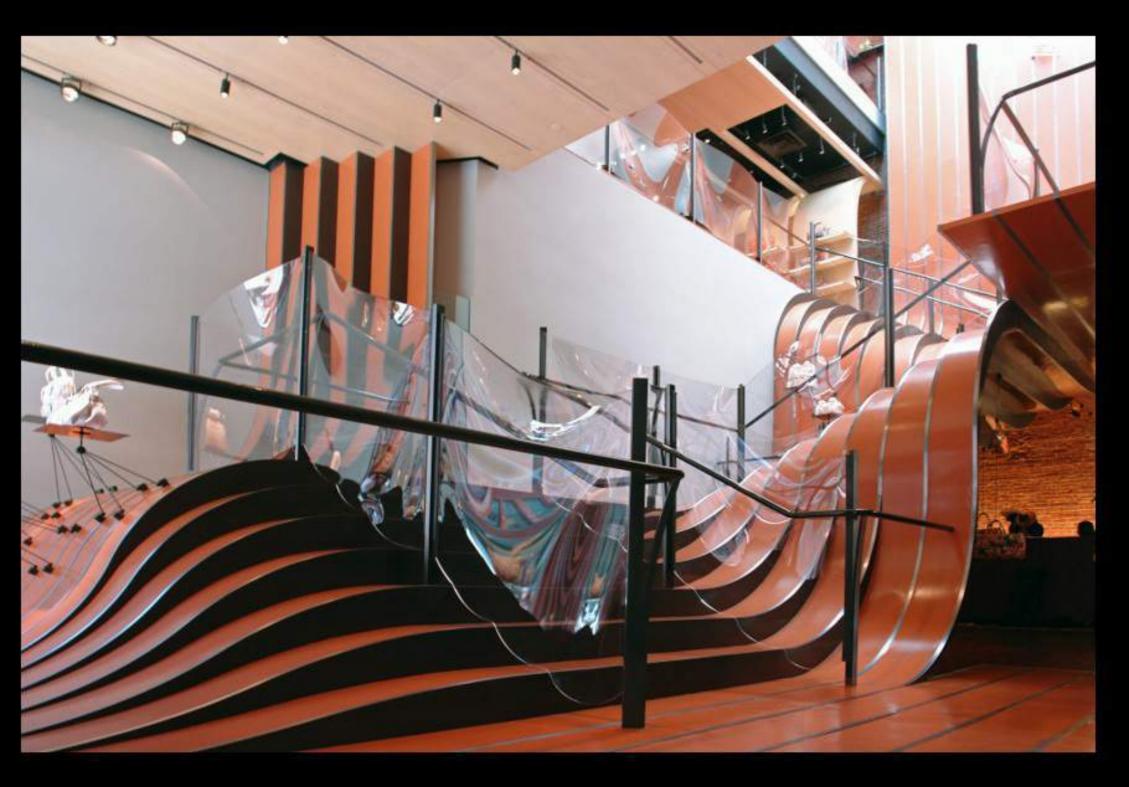




Spatial Quality

Glass - Create an atmosphere such as a waterfall falling from the skylight.





 Make people feel they are at below ground

Related Design

- Farahi House/ Wooden-curved Staircase designed by Eisa Ghasemian (BETHANY BEACH, DE. USA)
- Hanging Stairs designed by Arquitectura en Movimiento (Mexico City, Mexico)
- Stairs Smooth designed by Andrii Ortynskyi (Lviv, Ukraine)







After Visiting Longchamp Staircase

- The actual thing is bigger than he thought it would be.
- A large and clear window which is next to the entrance and at the ground floor of the store becomes a successful part that catching passengers' attention.
- The curve part of design makes the staircase special.
- It feels welcoming to walk up the stairs and want to discover what it is upstairs.



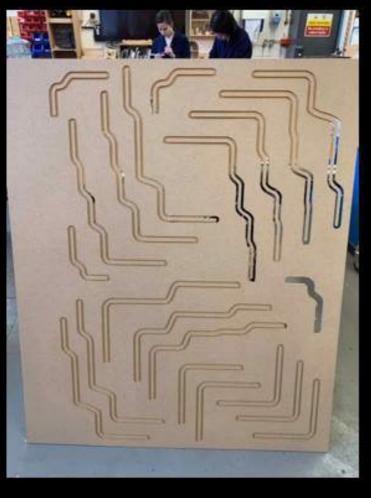






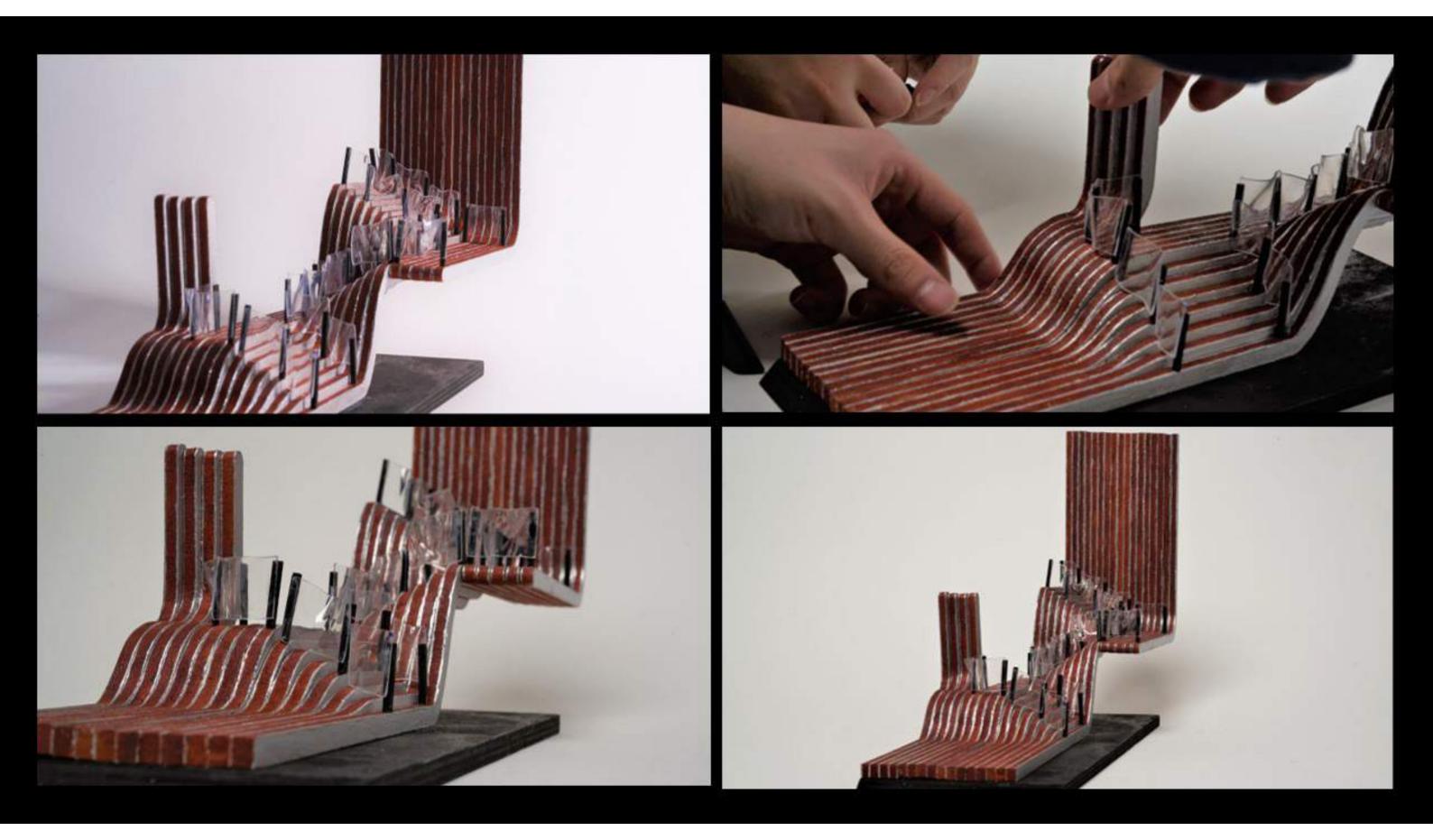
Working Process ------ FINAL





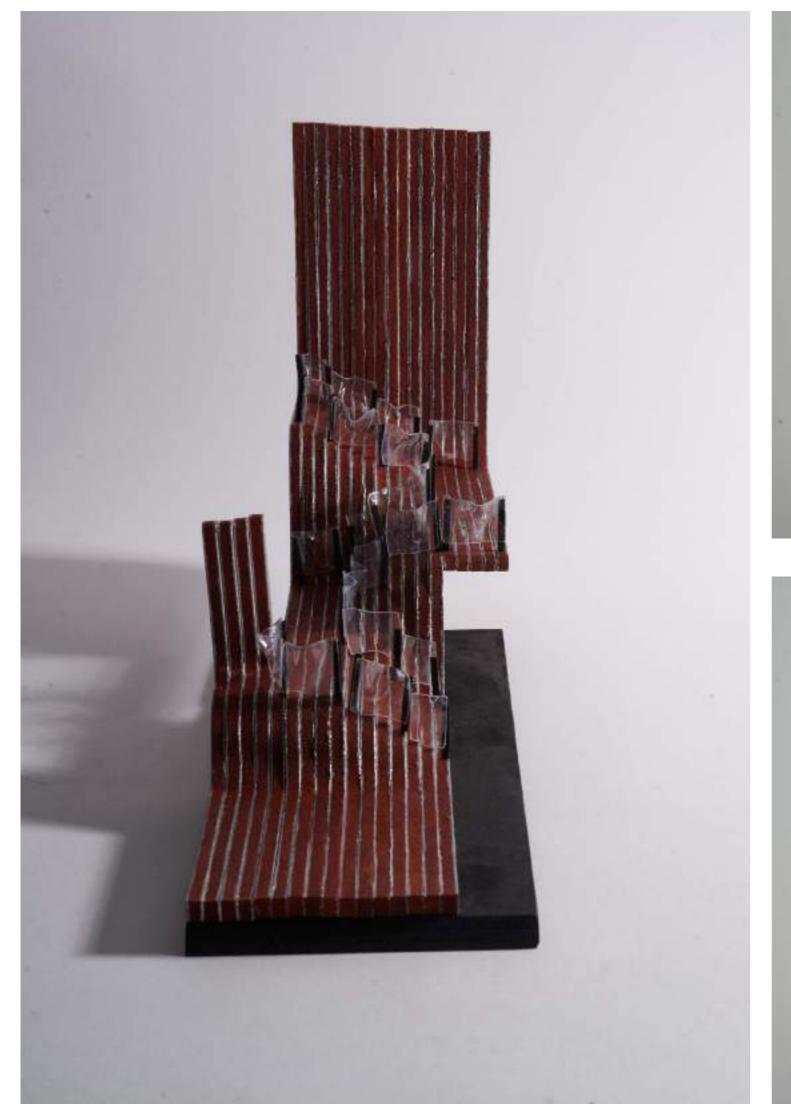






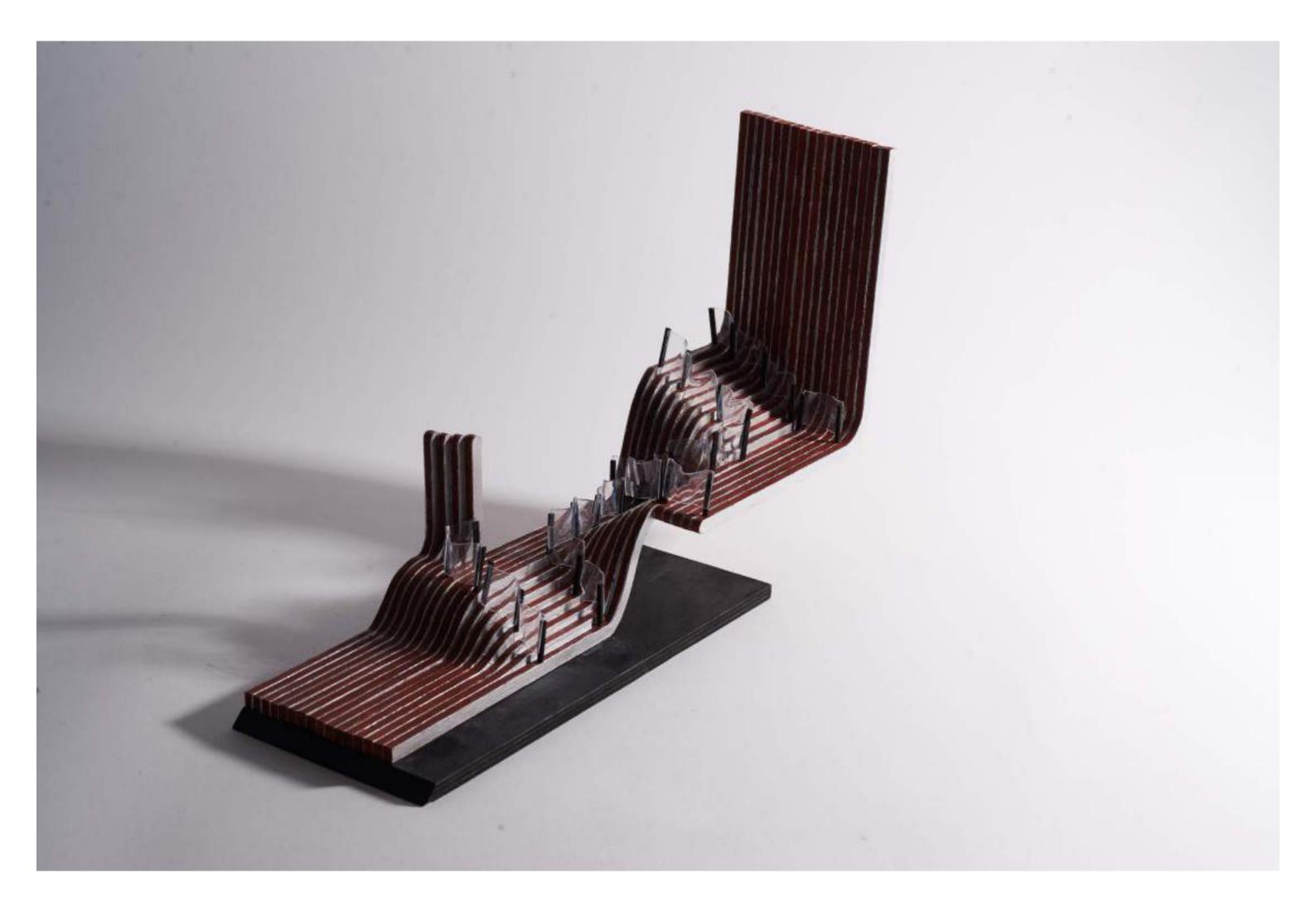
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- Barton, P. 2014, Detail in contemporary staircase design, Laurence King Publishing, London.
- Heatherwick, T. & Rowe, M. 2012, Making, Thames & Hudson, London.
- Longchamp Store 2004, Heatherwick Studio, viewed 23 February 2019,
 http://www.heatherwick.com/project/longchamp/>.
- Longchamp Store 2004, Heatherwick Studio, viewed 17 February 2019, http://www.heatherwick.com/studio/about/









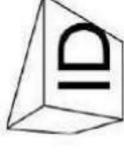


JADAF9-15-1: PROFESSIONAL PRACTICE AND WORK EXPERIENCE I









RESEARCH:

Give a brief introduction about the designer

HOW and WHY is the design so important? What Design Style/Movement is this piece from? What are the materials?

What else is significant about the piece?
Other pieces or styles that it is closely related to.
Give a critical opinion about the piece.

SUBMISSION REQUIREMENTS:

Al orthographic drawing sheet containing.

- Title block and relevant scale

- At least one plan
 At least one side elevation
 - At least one section
- Additional drawings as appropriate (details/axon etc)

Any other information (list):

Hints and tips:



CONTENT

- O1 How and Why is the Design so Important
- O2 The Design
 Style/Movement
- The Materials and How it was Made
- **The Significant** about the Piece
- O5 Pieces/Style that is Related
- O6 The Barcelona
 Pavilion
- Other Informations/
 Experiment/Bibliography

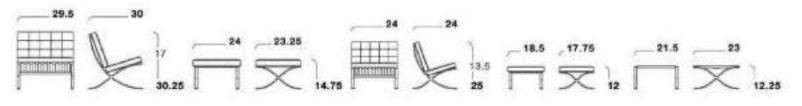
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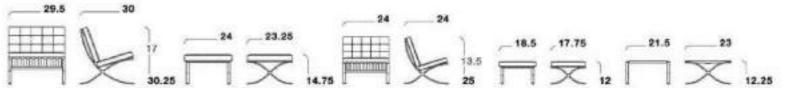
How and Why is the Design so Important



It was designed by Ludwig Mies van der Rohe and Lilly Reich in 1929.

It was originally designed for the German Pavilion, that country's entry for the international Exposition of 1929, which was hosted by Barcelona, Catalonia, Spain. it was also design to be like a throne for the Scottish royal family.







He came up with a set of pioneering designs in the search for a style that would be suitable for the modern industrial age. While many of his ideas remained unbuilt



The Barcelona Chair caused a sensation that has lasted for nearly eight decades. Today, it is still a "must have" piece in the homes of wealthy aficionados, as well as architects and designers.

The Barcelona was even honoured with the Museum of Modern Art Award in 1977.

The Design Style/Movement

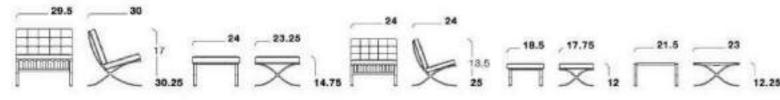
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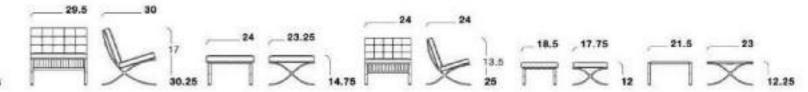
The Barcelona chair was design in the Bauhaus era, Ludwig Mies van der Rohe did collaboration with his compatriot, an ex-Bauhaus student, Lilly Reich. Lilly Reich was Mies long time partner and companion, the brilliant architect and designer



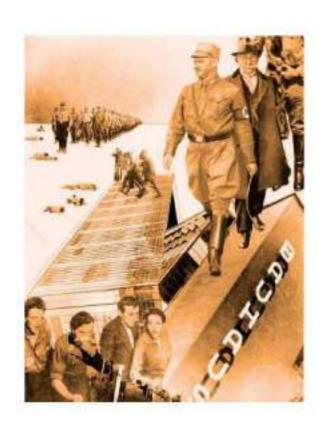








His style was deceptively simple with clean lines and he used modern materials such as stainless steel and plate glass in his buildings, which he referred to as "skin and bones" architecture.

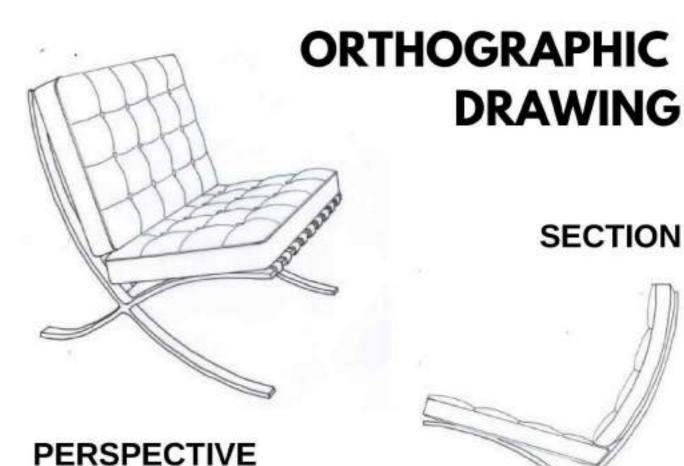




The following year, Mies was appointed director of the Bauhaus school until 1933, when it was shut by the Nazis.

In 1950, Mies redesigned his old Barcelona chair using modern techniques which allowed the frame to be moulded from a single piece of stainless steel rather than being bolted together.







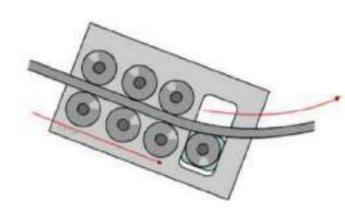
The Materials and how it was made Nory Pigskin Leather Foam (inside) Leather Strap Reflective Chrome Steel

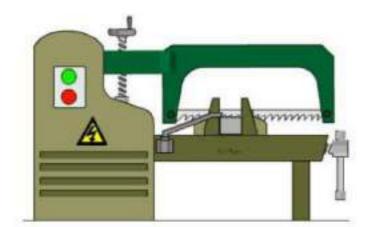
changes

- >They change from using ivory pigskin leather to black bovine leather
- >They created for than one colours
- >Chrome steal change to polished stainless steal
- >Cotton, burlap and horsehair filling of the upholstery has been replace by foam rubber
- (the resulted is an even more long lasting chair, with virtually nothing to wear out)

The Method

After the selection of quality steel or stainless steel. The flat strips that will later form the 'sides', are put through a set of rollers. This gives each frame its distinctive curve.





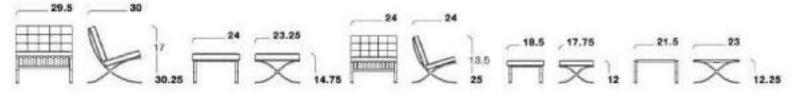
The curved frames are cut to the correct length, using a machine hacksaw. Cutting after the curve has been formed, ensures that the remaining flat part of the material is removed.

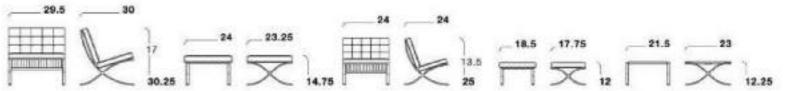
The 'cut' surfaces are finished by hand, removing burrs and rough edges. This ensures that the steel is smooth, ready for further grinding.



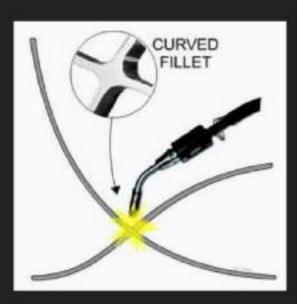


A machine grinder is used to remove rough edges, along the lengths of each curved piece of steel.





The curved pieces of steel, that form the sides of the chair, are set up in a jig and welded together. This is completed very accurately, as a smooth fillet is required at the intersection. The cross pieces and the two side frames are welded, forming the sturdy completed frame. The welds are filed by hand, ensuring a perfect surface finish.





Chrome plating, is a technique, whereby a thin layer of chromium is added to the surface of steel. This protects the steel from corrosion but also gives it a quality, reflective silver finish. (if stainless steel is used for the frames, they do not require chrome plating). One chrome technique uses chromium chloride as the main solution. The chair frame is lowered into the chrome plating bath and allowed to reach the same temperature. An electric current is applied to the solution and after time, chrome is deposited on to the surface of the steel.

Each cushion is manufactured from forty individual pieces of leather. Each square is individual cut to size. The buttons hold the patch work of leather squares together. The piping between each button is also composed of separate pieces. The buttons are hand stitched in position.



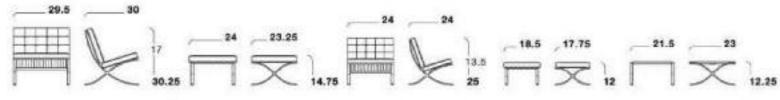


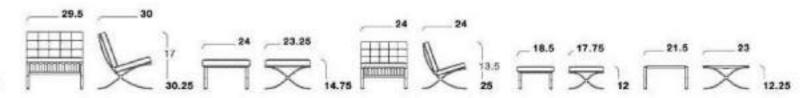




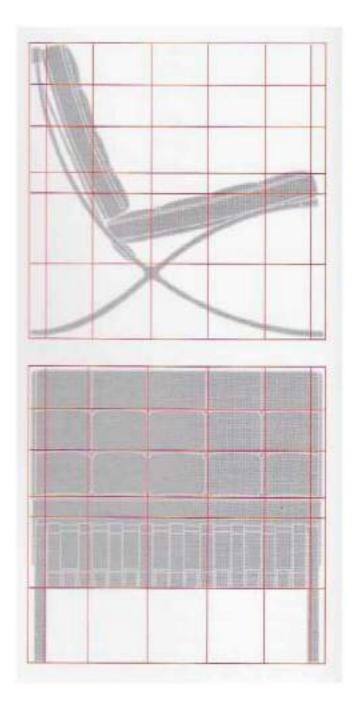
The Barcelona chair was like a throne, it was design for the Spanish Royal Family, for King Alfonso XIII and his queen, Ena, in case they would like to have a rest while visiting the pavilion. Unfortunately the royal couple never sat in the pavilion

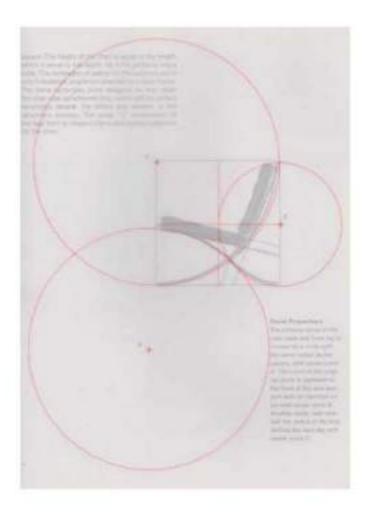
The amount of hand work required in the making of the chair is staggering. The upholstery is composed of forty separately cut panels joined by narrow hand-sewn welts, the leather straps are held on by seventy-two screws each tapped and screwed into the metal frame through the ends of the straps, the stainless-steel frame is all electric arc welded, hand finished, and polished to a perfect mirror finish. Apart from some machine sewing and the extruded-steel section the chair is almost entirely hand-made, which explains its high purchase price.

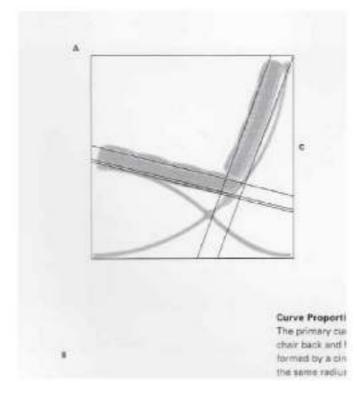




The height of the chair is equal to the length which is equal to the depth, so it fits perfectly into a cube.









Pieces/Style that is related

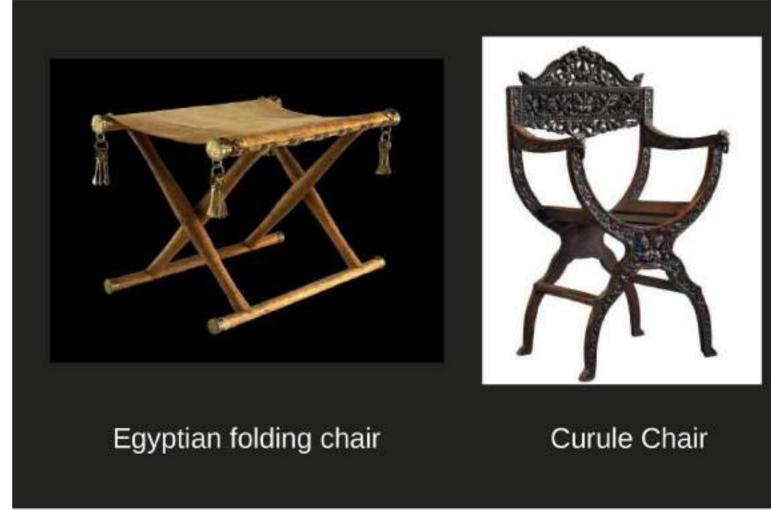
The idea of the chair was taken from the Roman aristocrats

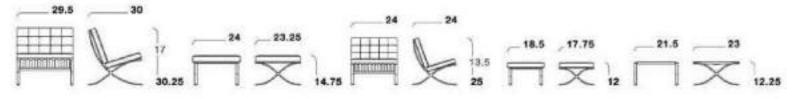
Chairs called the Curule Chair, and also the Egyptian folding chair

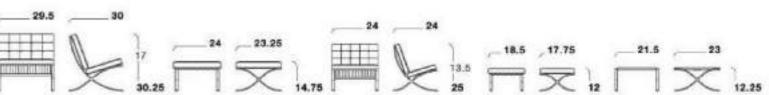
and it requires much more hand craftsmanship then normal

chairs. you can see that the leg of the chair looks really similar to

the the Barcelona chair.



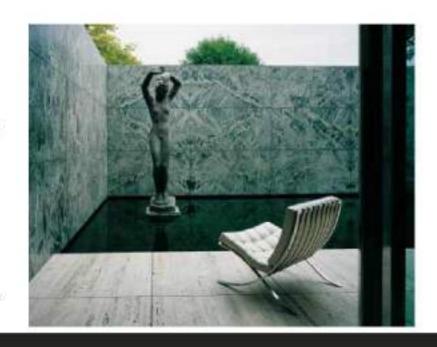




06

The Barcelona Pavilion

The Barcelona Pavilion was
the German Pavilion for the
1929 International Exposition
in Barcelona, Spain. This
building was used for the
official opening of the
German section of the
exhibition.





It is an important building in the history of modern architecture, known for its simple form and its spectacular use of extravagant materials, such as marble, red onyx and travertine. The same features of minimalism and spectacular can be applied to the prestigious furniture specifically designed for the building, among which the iconic Barcelona chair.

Other Informations

07



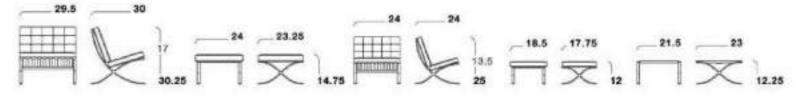




The Barcelona chair went into commercial production only in 1953 when Mies van der Rohe sold the rights to Knoll, and it continues to be manufactured by the US company today. The chair currently sells at upwards of \$4,000, though unlicensed replicas are commonplace.

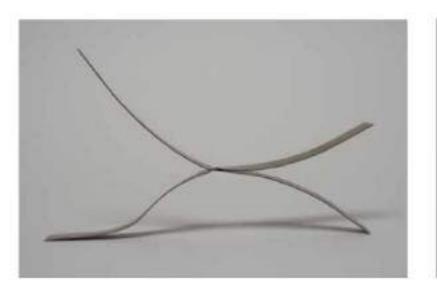
The Barcelona chair is at its best in an open space, where it can be appreciated from a distance away, or where it can be seen from a low angle

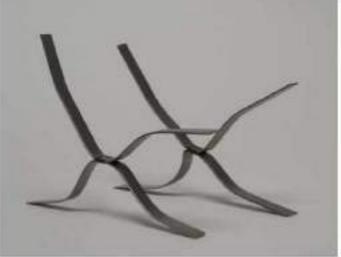




Experiment

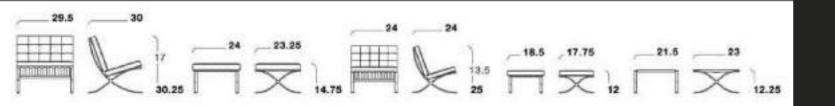
I did an experiment on the shape and curve of the Barcelona chair and also the structure of it. The first image is two metal crossing over each other and the second picture is metal being weld together.





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- -Elam, K. 2001, Geometry of design: studies in proportion and composition, Princeton Architectural Press, New York.
- -Czerwinski, M. & Design Museum (London, E. 2009, Fifty chairs that changed the world, Conran Octopus, London.
- -Vazquez Montalban, M. & Robinson, A. 1992, Barcelonas, Verso.
- -Gonzalez, A. & Lacuesta, R. 1995, Barcelona: architecture guide 1929-1994, Gustavo Gili.
- -González, A. & Lacuesta, R. 2002, Barcelona architecture guide, 1929-2002, New edn, Editorial Gustavo Gili, Barcelona.



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APPENDIX **KRITAMUK** CHIRAAMPHAIRAT

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MAKING THE STAIRCASE LONGCHAMP

GEOMETRY LECTURES

LONGCHAMP STORE NEW YORK

TATE MODERN LONDON

ASHMOLEAN MUSEUM

OXFORE

PITT RIVERS MUSEUM OXFORD

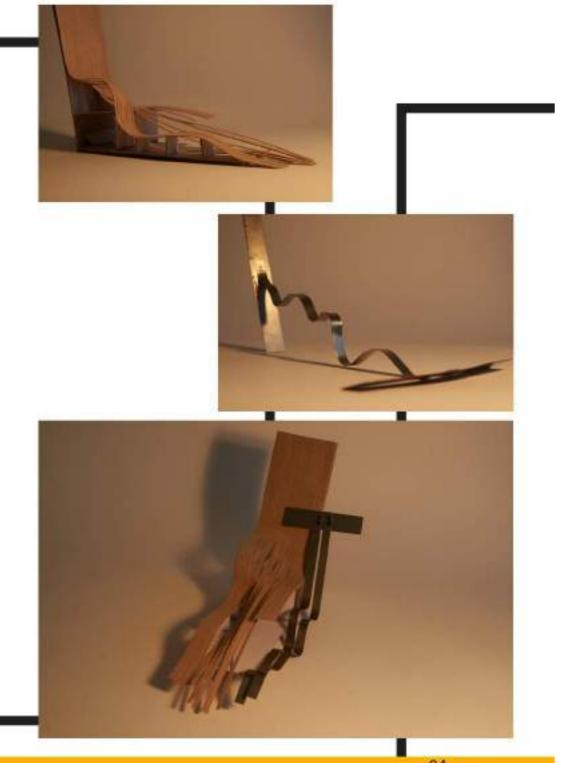
MODERN ART OXFORD EXHIBITION OXFORD

MAKING THE STAIRCASE

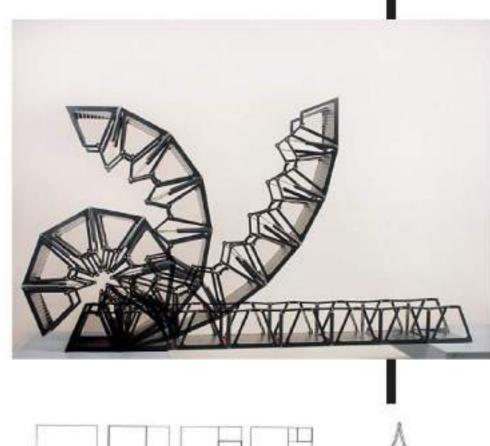


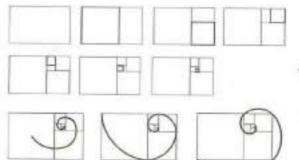
We had James from the model making company to come in and help us think what material we should use for out staircase model, and also how we should make it. He also gave us some tips and tricks for the model making. At first we were going to bend metal strip to make the curve of the staircase, but after we had a talk with James he told us about using the CNC machine to cut each layer of the staircase out. if we didn't have the talk with James we would be bending the metal strip and I'm sure the curve of the stairs wouldn't be accurate. but the hard part for using the CNC machine is when I had to draw everything up on illustrator first and it wasn't easy.

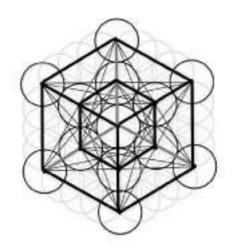
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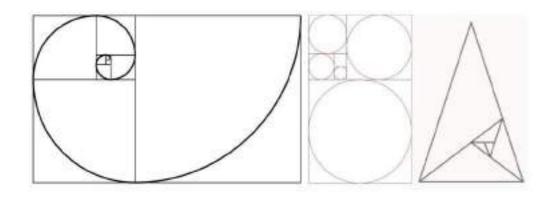


GEOMETRY LECTURES









One of the lecture that I like the most was the geometry lecture. I really like how the shape is form and how the shape was drawn, it was really interesting to know how to draw the golden ratio, and i also try to use the golden ration and the golden rectangle in my design.

LONGCHAMP STORE NEW YORK

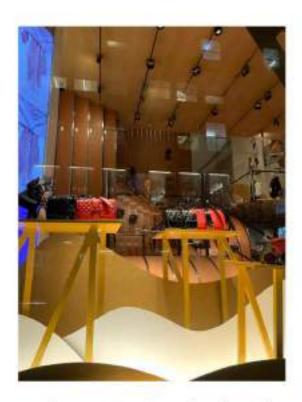








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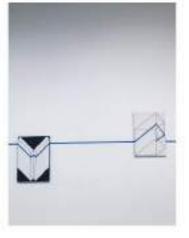
I went to America for the winter break this year to visit my friend and I was able to go to the Longchamp store in New York. and that's where the staircase that we got for the staircase project stand. it was a really good opportunity that i was able to go visit the real staircase and not only did research from photographs. The real thing was a lot bigger than I expected, it was massive. it didn't look that amazing when I look through the front store window, but when I walk in the the staircase was really outstanding and really have it's own unique design.

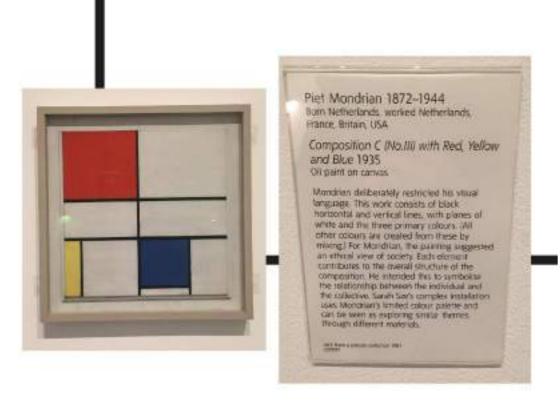
TATE MODERN LONDON











Went to Tate Modern in London this year and I've found a lot of interesting art and exhibition at the museum. one of the art work that I was very surprise to find in Tate was a painting by Piet Mondrian. I remember studying about him and doing research about him. I didn't think that I would find his work at Tate and be able to see his work in real life. I also use his painting as a inspiration for my project.

ASHMOLEAN MUSEUM OXFORD











PITT RIVERS MUSEUM OXFORD









MODERN ART EXHIBITION OXFORD











Nicolas Party : Speakers



Last year I when to oxford and went to the modern art museum and there was an exhibition going on at the time. the exhibition was by Nicolas Party an artist from Switzerland and the exhibition was called "speakers". i was very interested on how she made the layout of the room and also how she place each head in each area and direction. and each head had a speaker inside and its making noise all the time.

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INSPIRATION



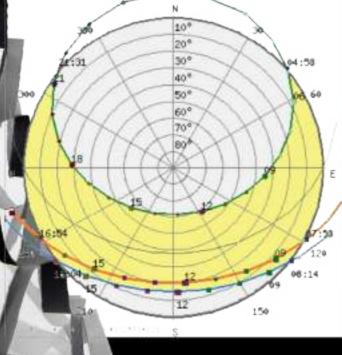




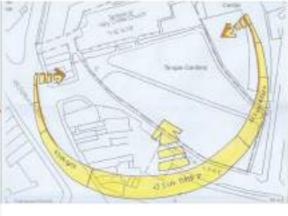
THE TOWER AT TEMPLE CHURCH

THAI LANTERN

The inside of the tower remind me of the Thai lantern called "Kratong puang tow lung". I got the modular form from the individual shape of the lantern, and I looked at the sunpath as the latern create a really nice shadows.





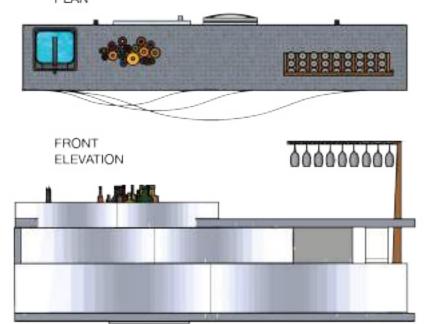


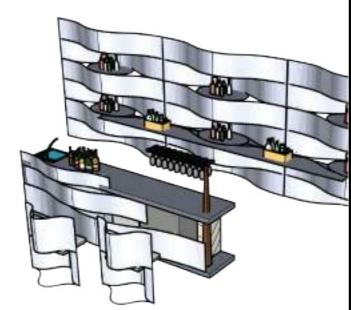






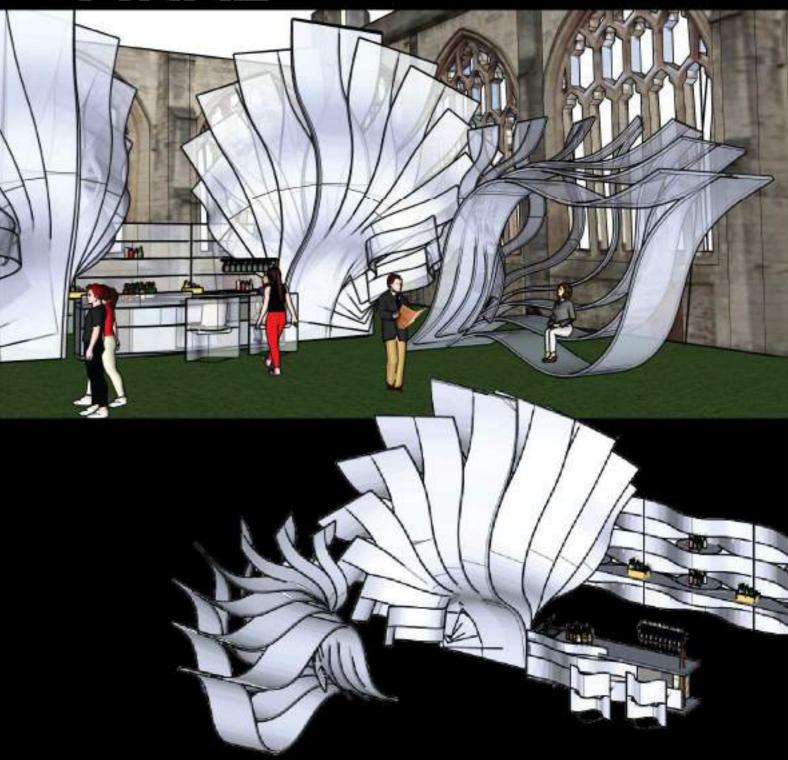
My main bar uses the same curve from the modular form to form a new design, and for the back bar I just use the modular form and duplicate it 9 times to create the design

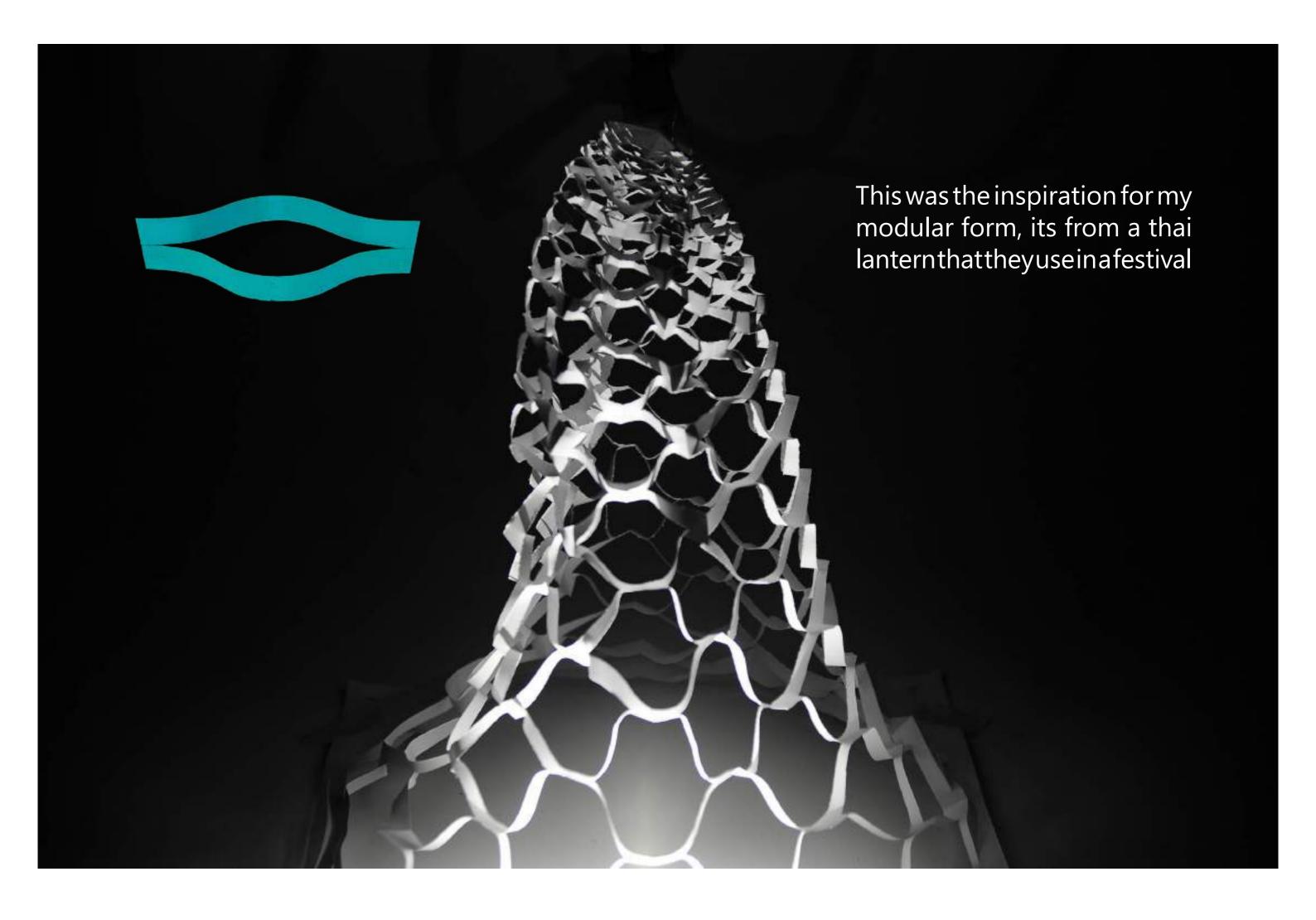






FINAL

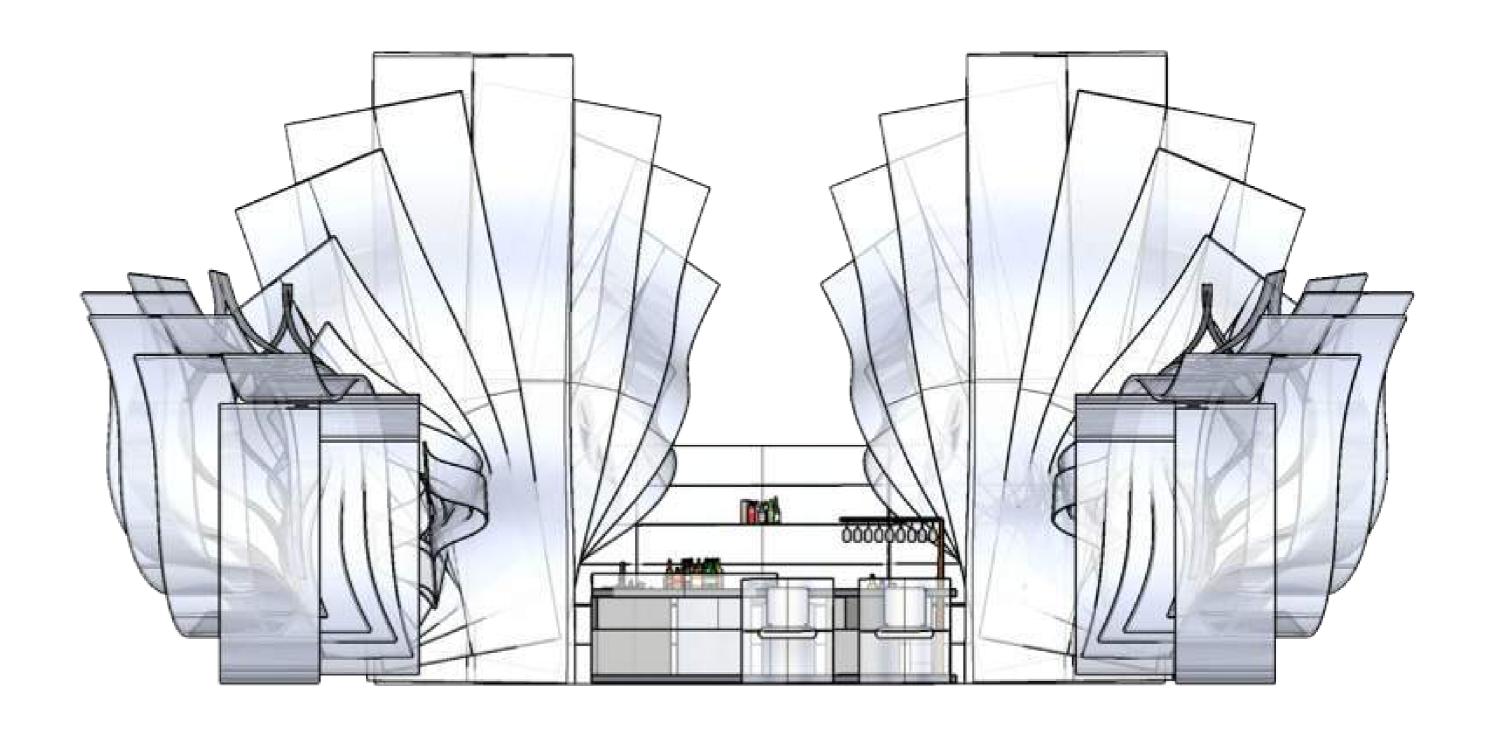




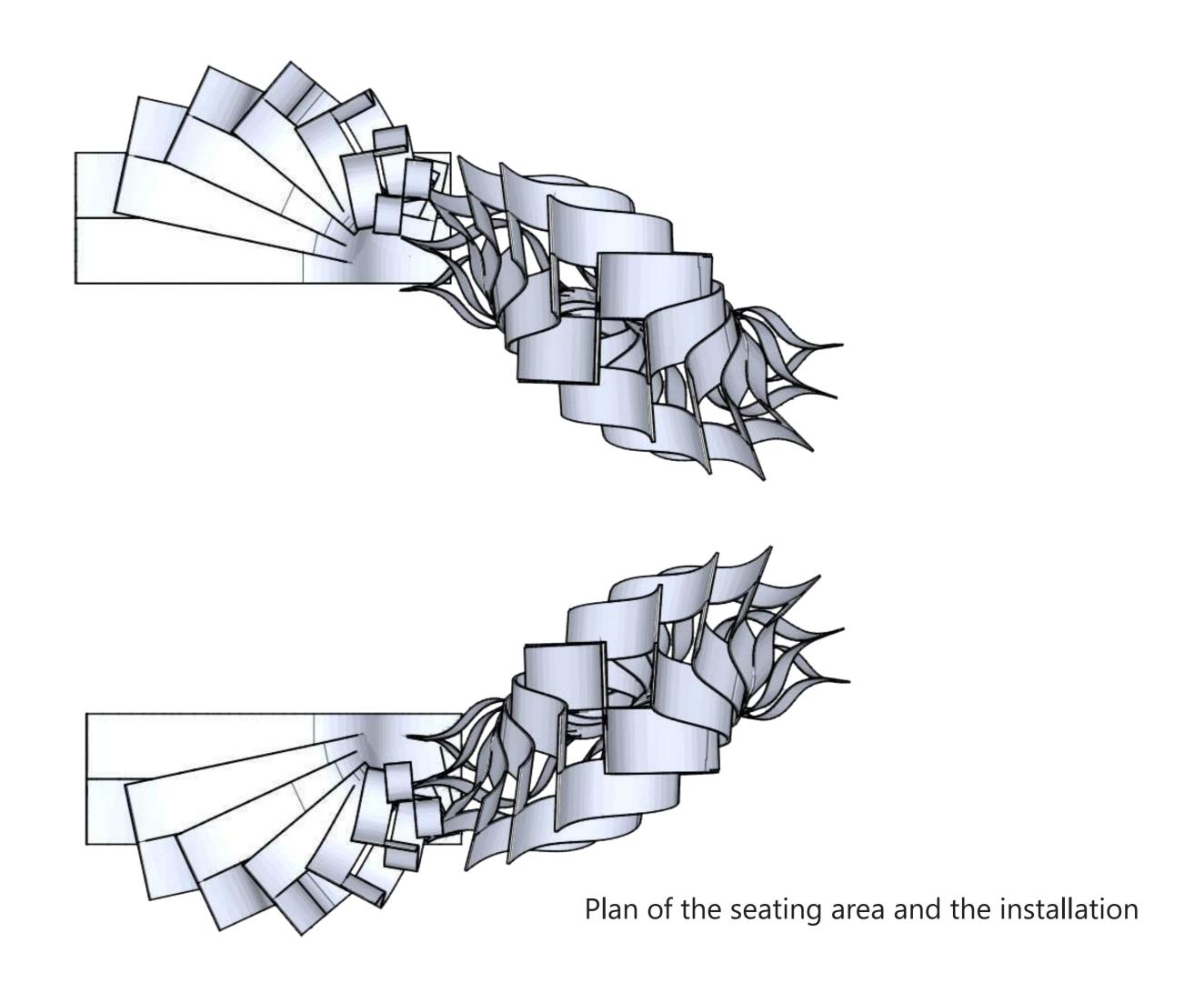


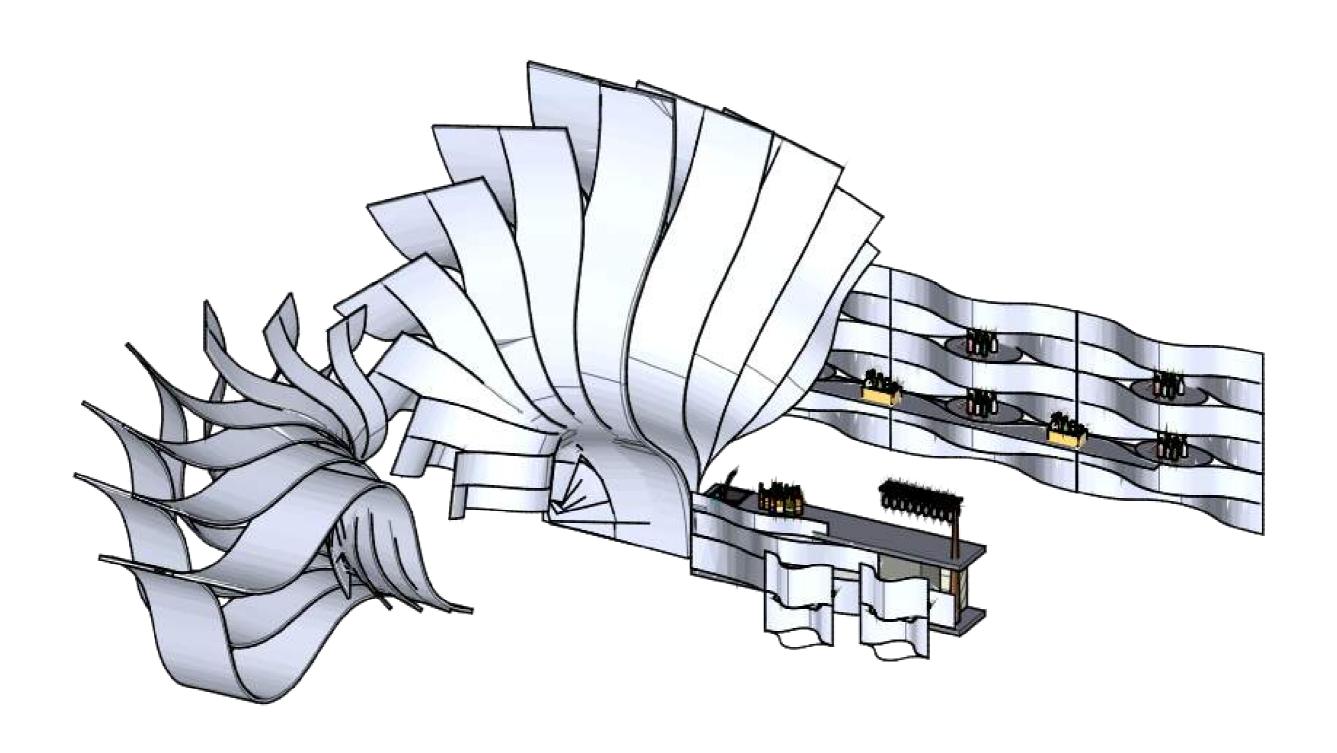




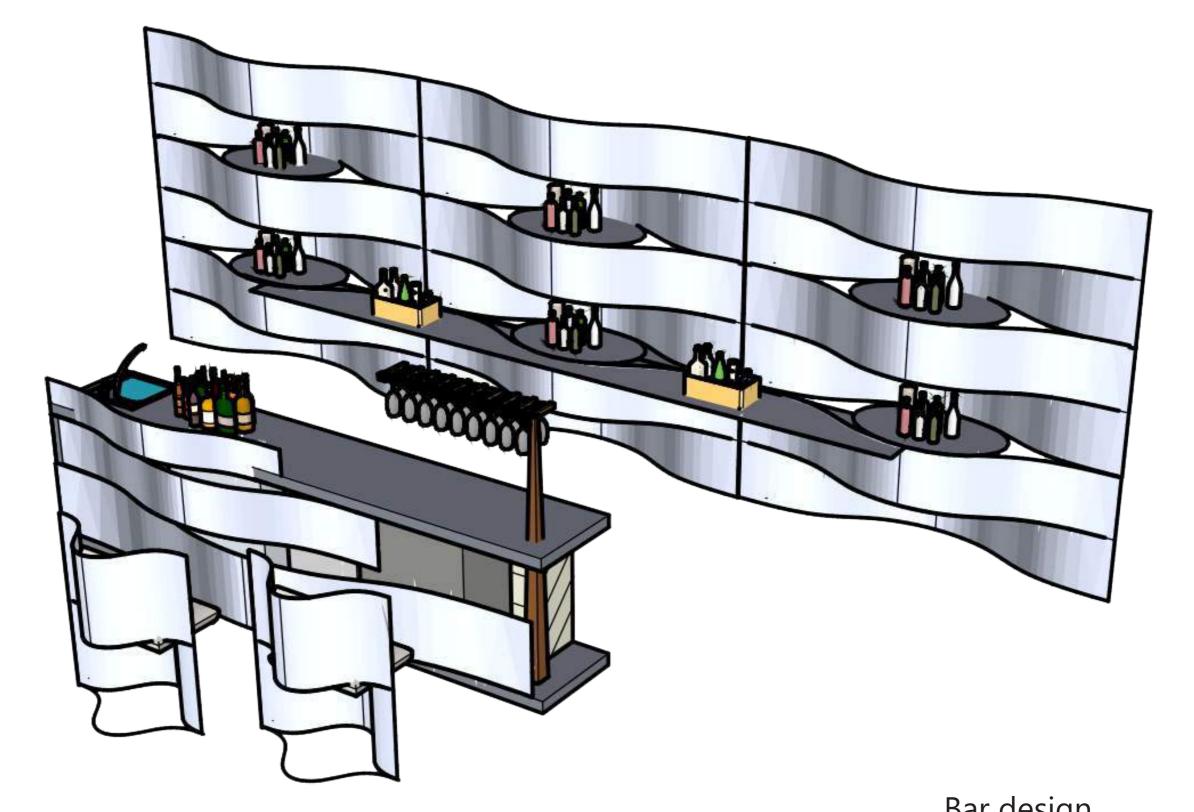


Front Elevation





Perspective view of the bar/ seating area

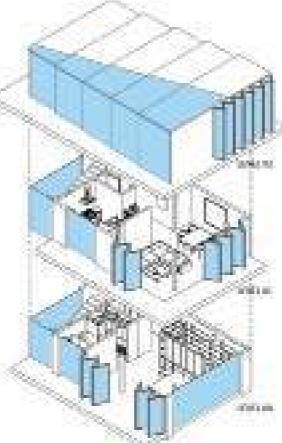


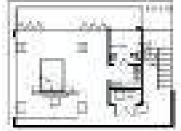
Bar design

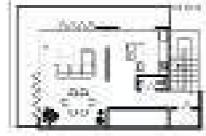


Attribute in conscious sets, muly enjoy a state on the conjunctional or Moreon artists for care get, respective from the approximating and establish with the below, to I seasonal in result to special for the public for set much to beach an enable grane and an outliers passe it operate as the set of the public of the set of the s

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MMO.

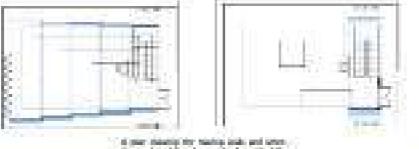






In the shader space I reason to usuals now than part a tendor where he can also use it is an arbitron was in just a pace tellares for case tellar and book mic. DEC degrees of Ear atom of the parameter, I am create a winting take in the runch, of the Qualit which he can easily and he wide he use the view of the price. The total is produce a glass with divolve the bottom and the being many basis was reconstructed by anti-mode in

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makes showing the plant will Mary Section and Pulling Section Section (



Residual from Manhamarities that considerated industrials styll.

attack to one conceptual endelsten, art his in bed some for the profession projects intersection the later was facts from the requirement of the primets cutding their terms and of family inspects. The senset research will be destroyed disablem, making the second research senset. which sometimes he opened was it right series as he result is let of stheaps in the being. For also that he stunged stuff urband the deposit word for tought or emphasize the thin have let the times as I design a literatur sidente has our routed patter for pleanings that because her followard, inc. the real life; workspace, the flact one; one Cable for work on a reason or a year of a design on justice last meet of Nix and Nix design on the legan. flux, come of his doc by the size of a right hope, to, it credit to Hondar with a hig specifyway.

ABRAHAM CRUZUILLEGAS

Thosewer, art makes itself evident, it shall remain. above all raw source material in all its natural. unstable, physical, chaptic and crystalline states: solid, liquid and gaseous. It is the Joy of energy"



DOM-INO HOUSE



year facility across the section happened.



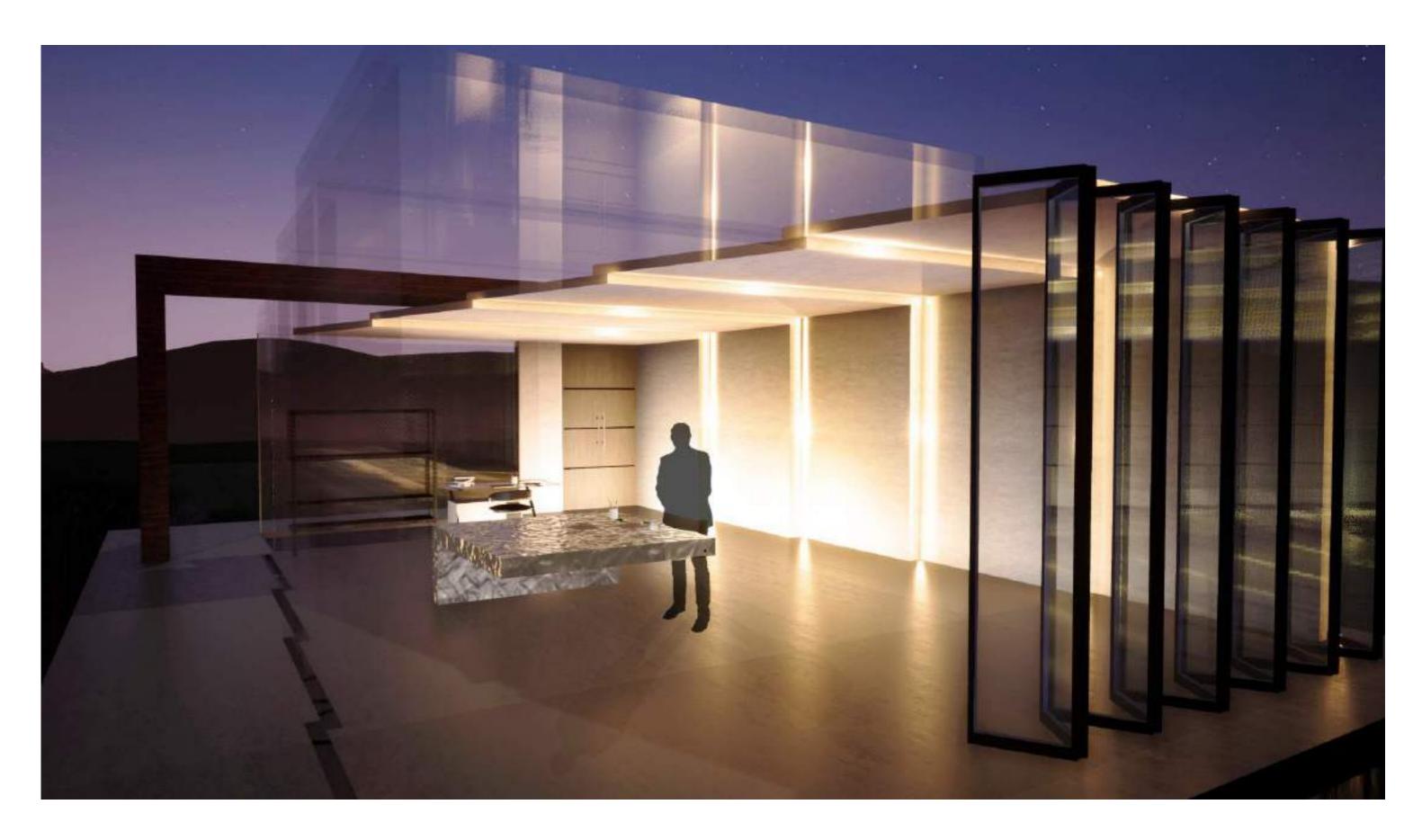


The view of the gorge

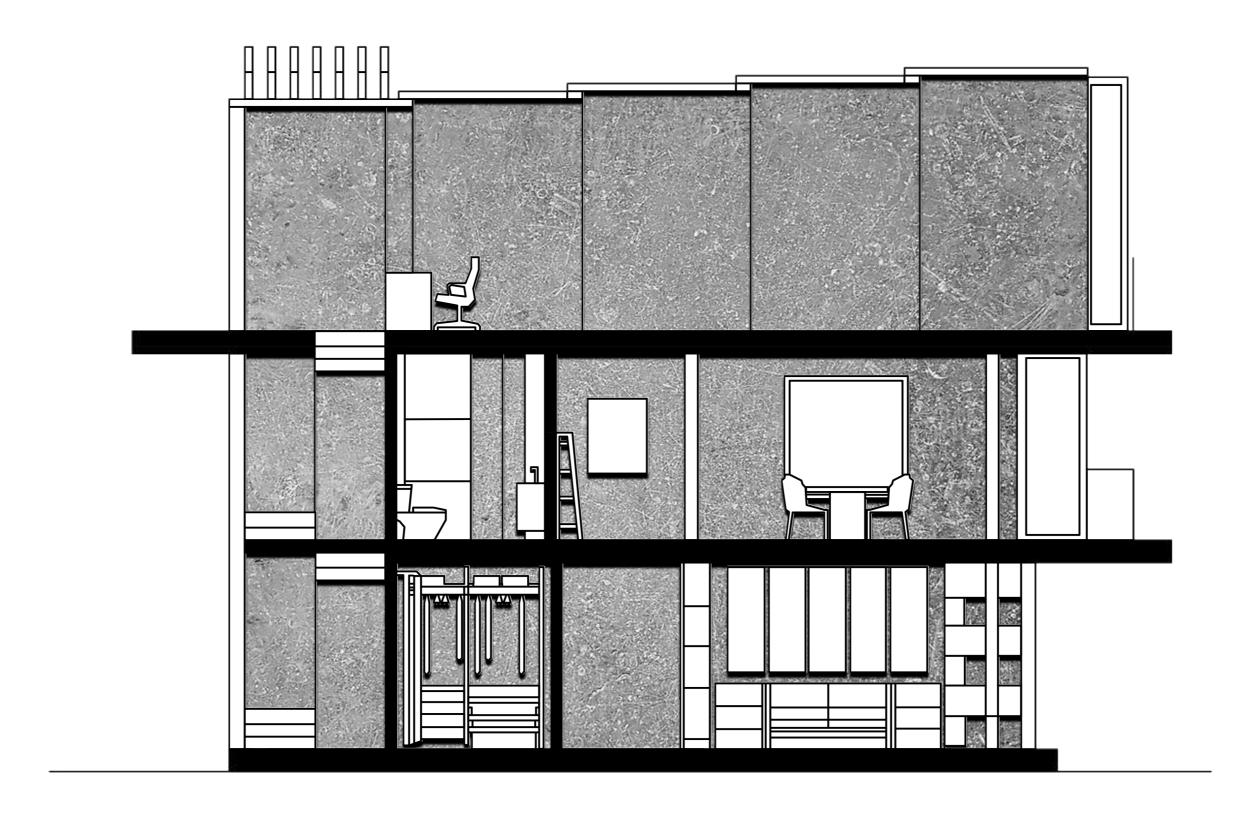
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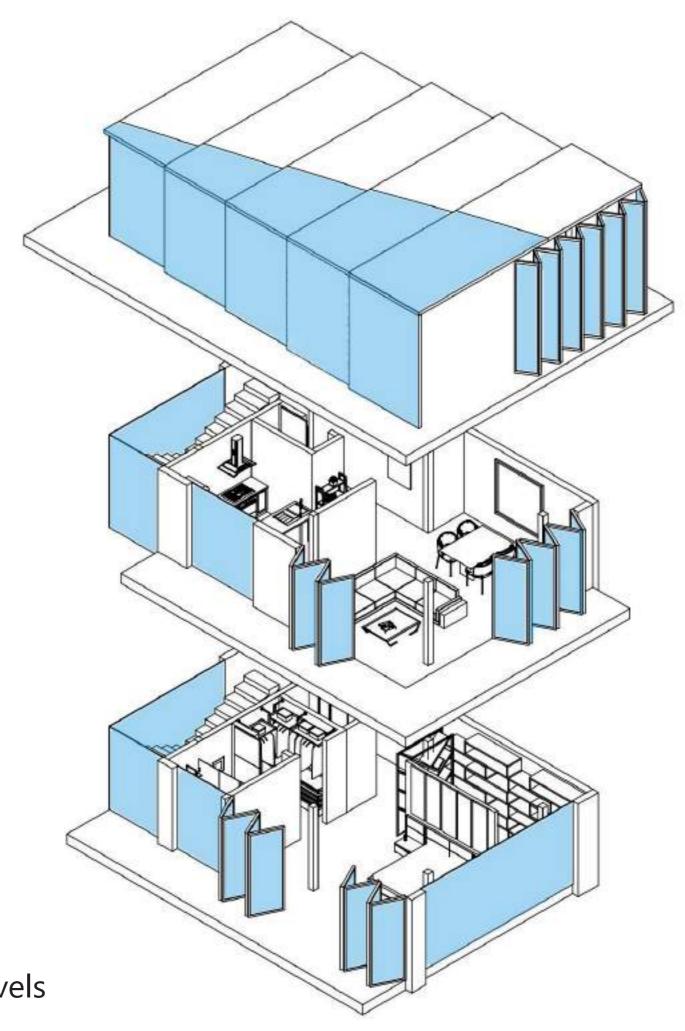


A cut throught the domino house to see the space for each Boor

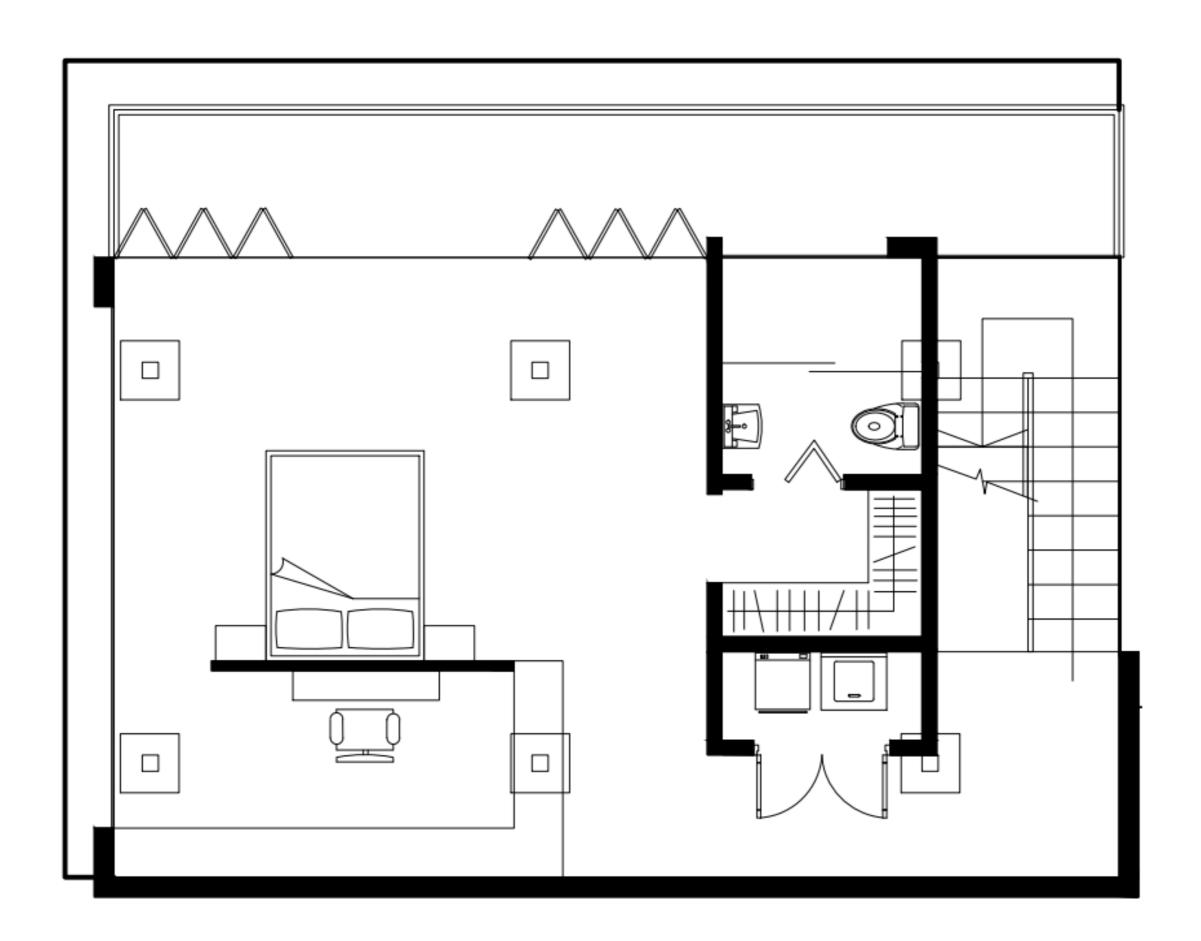


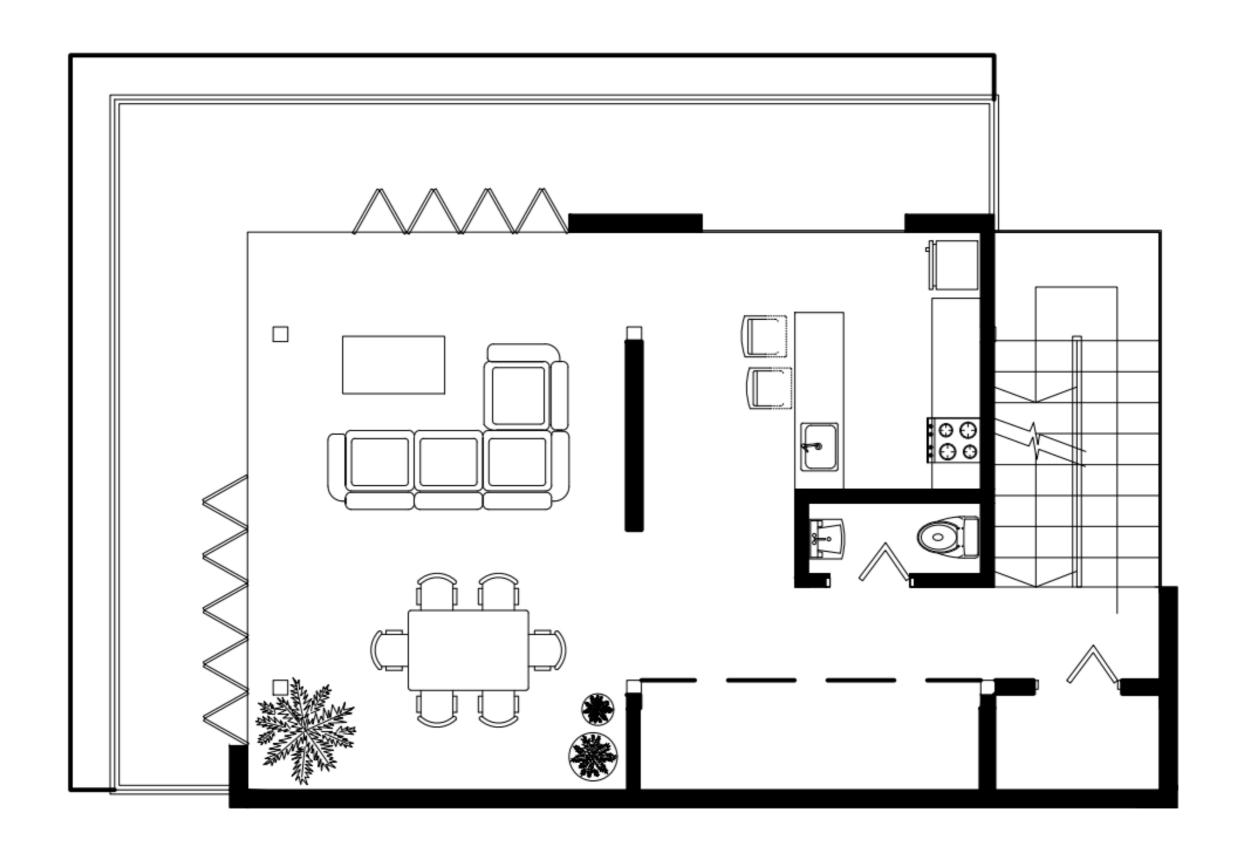
Visual of the studio at night, showing how the light would be lit up

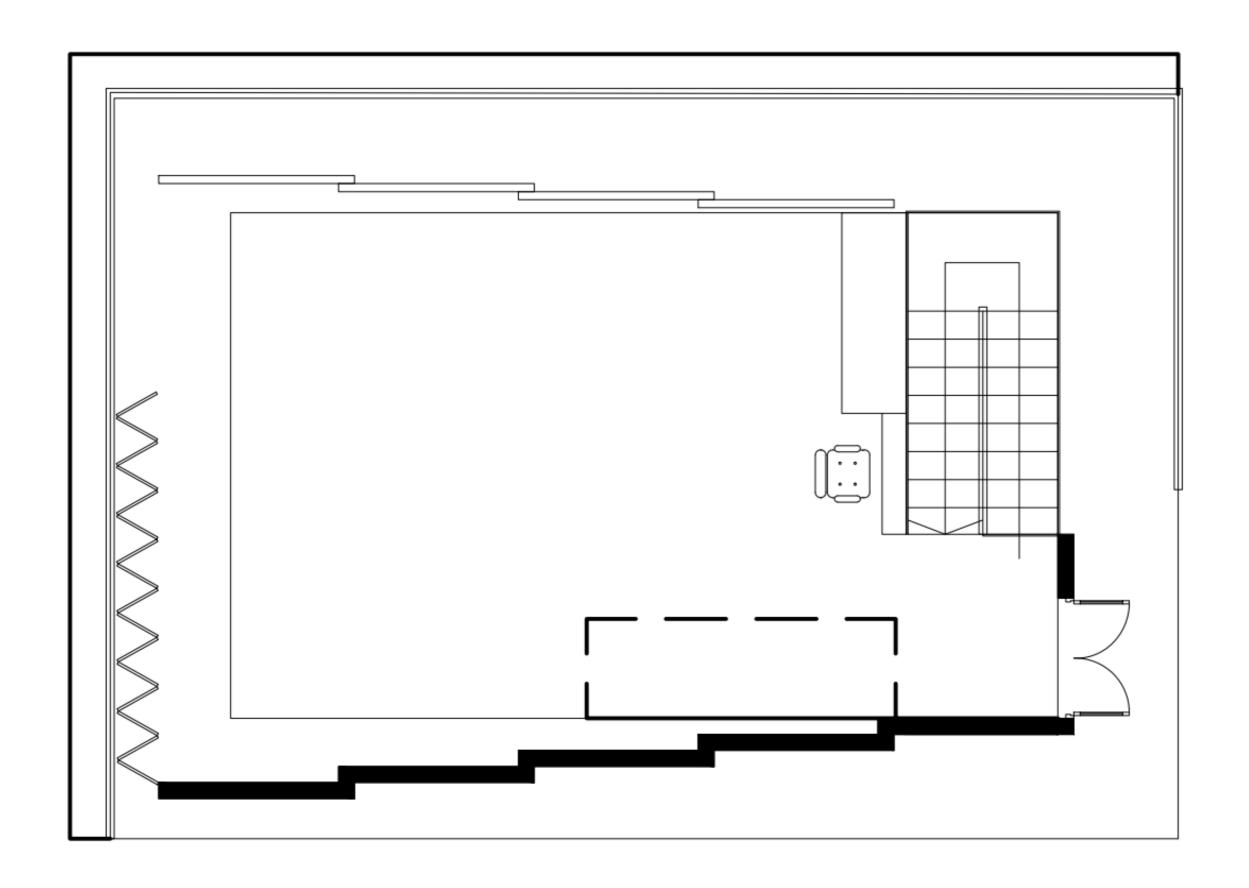


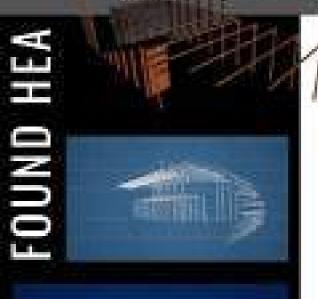


3D perspective of the 3 levels









F-storage/staff

G-changing room

H - main store area - lounge area - entrance/ light

installation

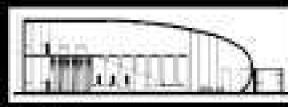
bathroom -manneguin

- workshop area
- · Fart of the glass
- stair design
- accessible lift area
- glass stair
- Caraman





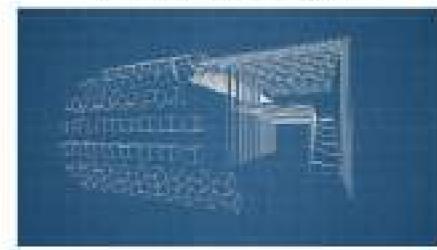
Mechan II



BEINGTONA

CONCRET

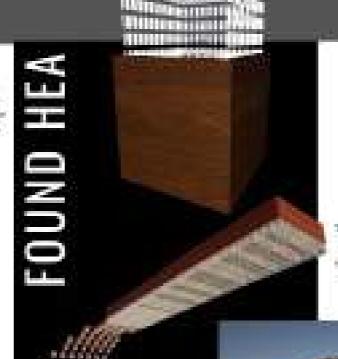
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I destact to keep the intector of the stone very intrimal, as the product that the store is selling to very minimal boart, as i plant work the importance over power the attention from the products.

GRINGGRAPHIC GRAWING





LIGHT DESIGN



The target and condition to the decision is save from the consequent of a reprocess from Milrow Ears to Jesus nor had a blood response of the sits that light installation start form this entrusion of the store unif chequite fulfix or into the simic storiosco. Both tight has will be take to move up and store in the woode's bey, on it will constructors portion along the celling, realizing the continues feel. The Live Fight, best after long to partition from the



MATERIALS

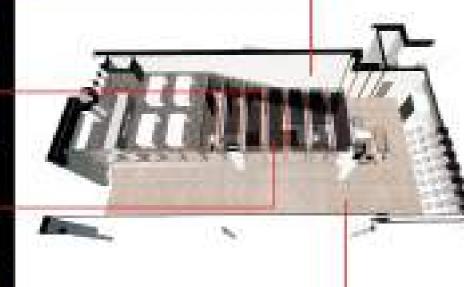


Densitied Oak Wood.

Contractor



Gale Fitzering



Twinding the same hardy made tall as the bound hard travely added and official and the interior allocations to begullet most substand and Hope, I picked parameters but that the some treet and And to it as issue of the married will as has not such at excise, but the popular that its suffice. settle by their matrialismal, we observe reflectes staff amount over either constraints.



UND HEA



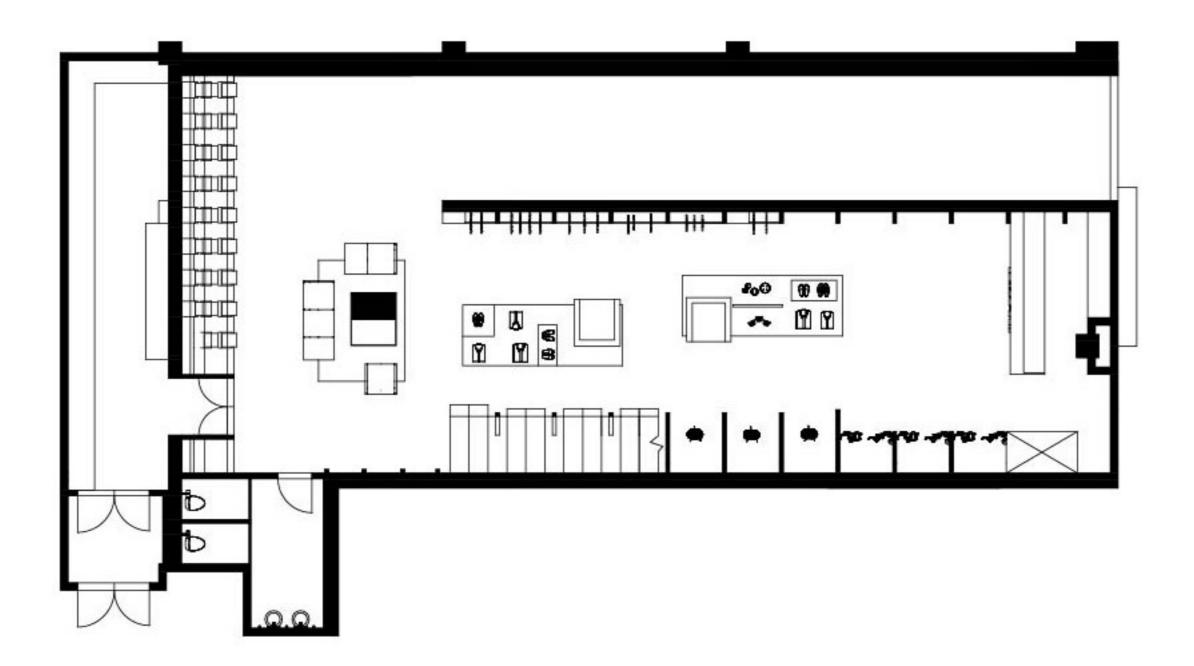


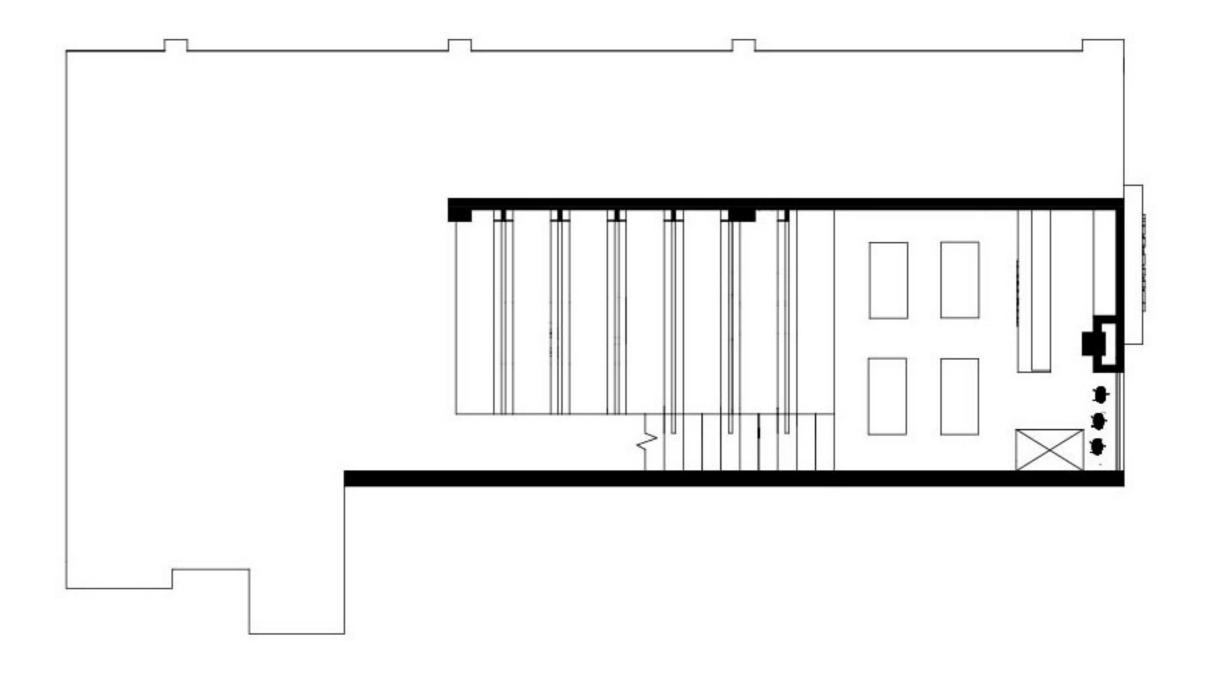


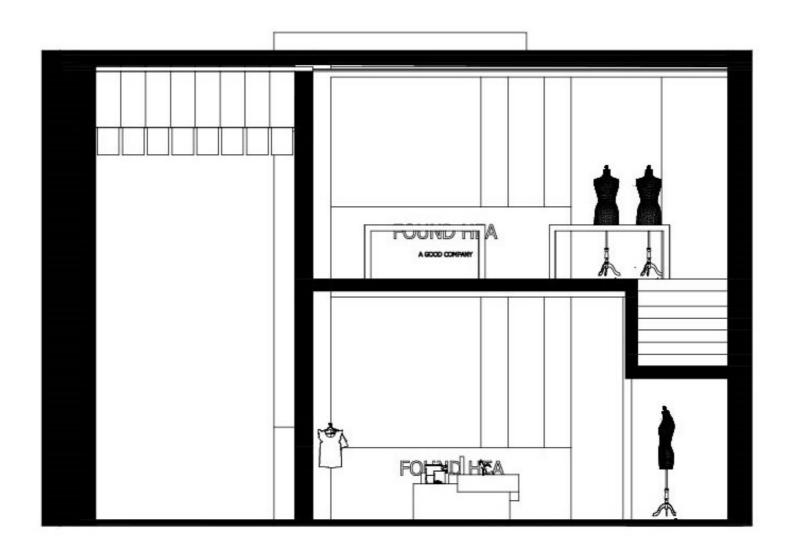




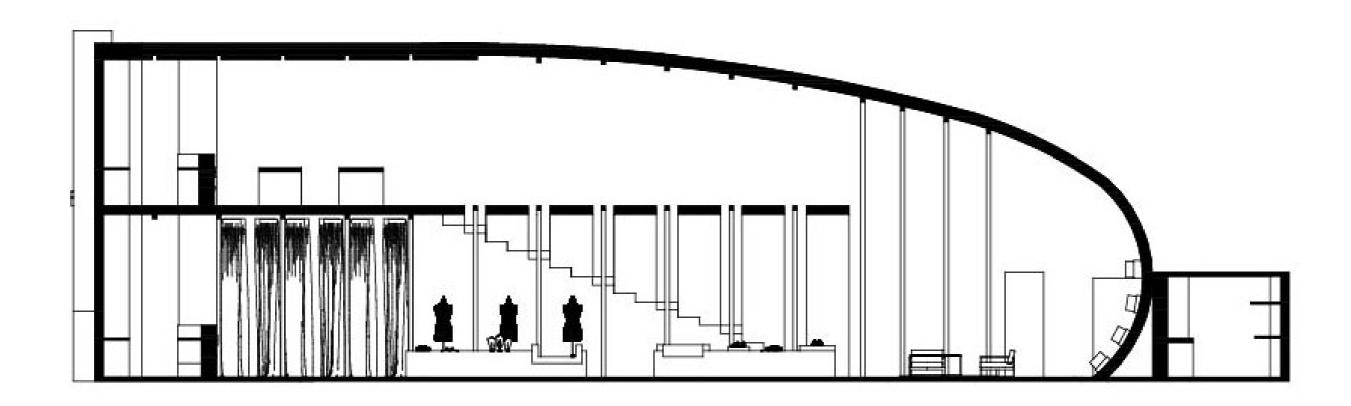




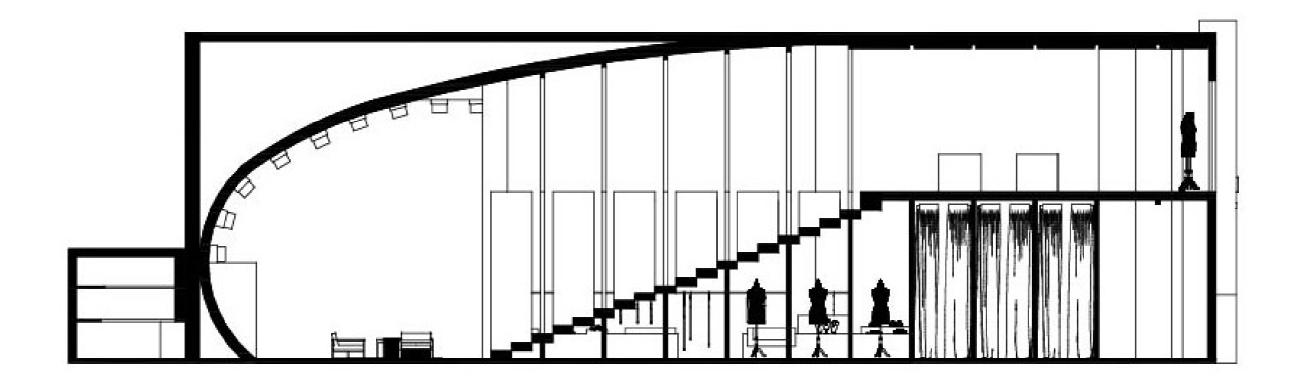




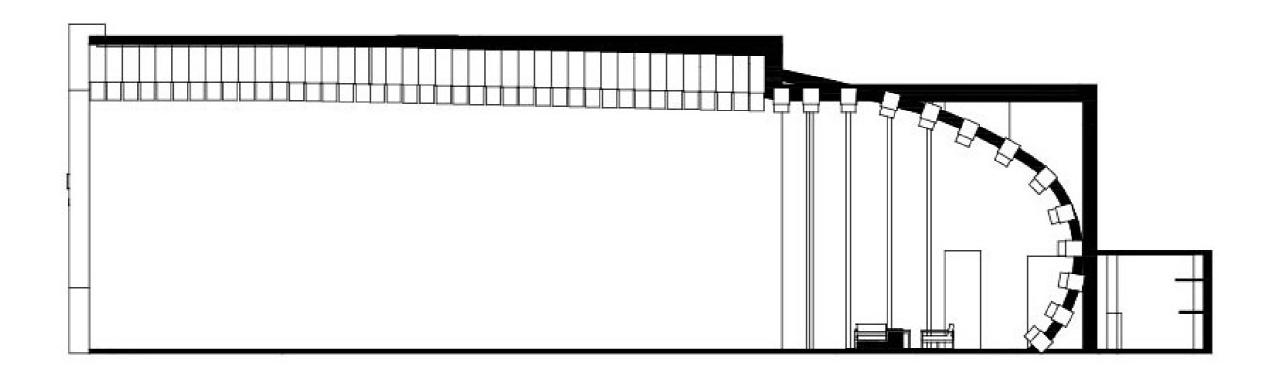
Section 1



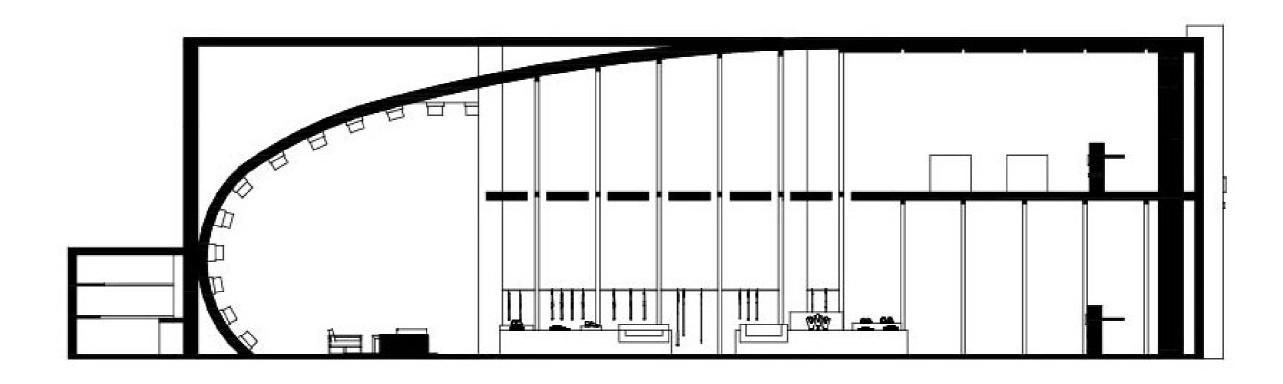
Elevation 1



Section 2



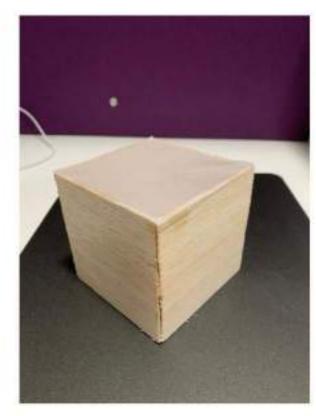
Section 3



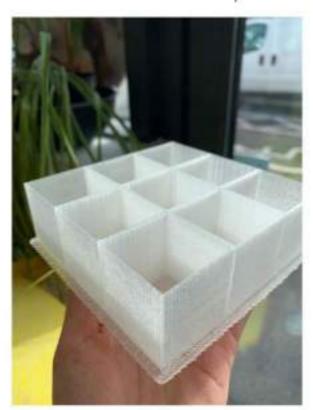
Section 4





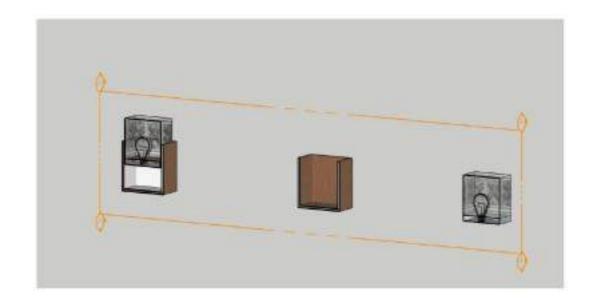


This was my individual response to the site and the brand found hea. I created a wooden box that lights up when you shake it, (I've installed a motion censer inside the box.) this was to represent a mystery box, as the site that we went was all covered up in the front and when you walked inside I didn't expect the room would be that big, so the site remind me of a mystery box (you wouldn't expect what's inside). I used wood to represent the brand 'found hea'

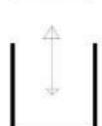




I then experiment more with the design and material but still keep the mystery box concept. I used rhino to design the shape of the mystery box and then 3D printed it. the 3D print came out really well, then I tried to design this 3D print into a light fitting.







Then I came up with the light design from the mystery box, I wanted to create a light fitting that is able to move up and down, so that its more interesting and mysterious. As you can see from the section of the light box that there's 2 part of the light fitting, there's the wooden box and the glass cube (that contain a light bulb)

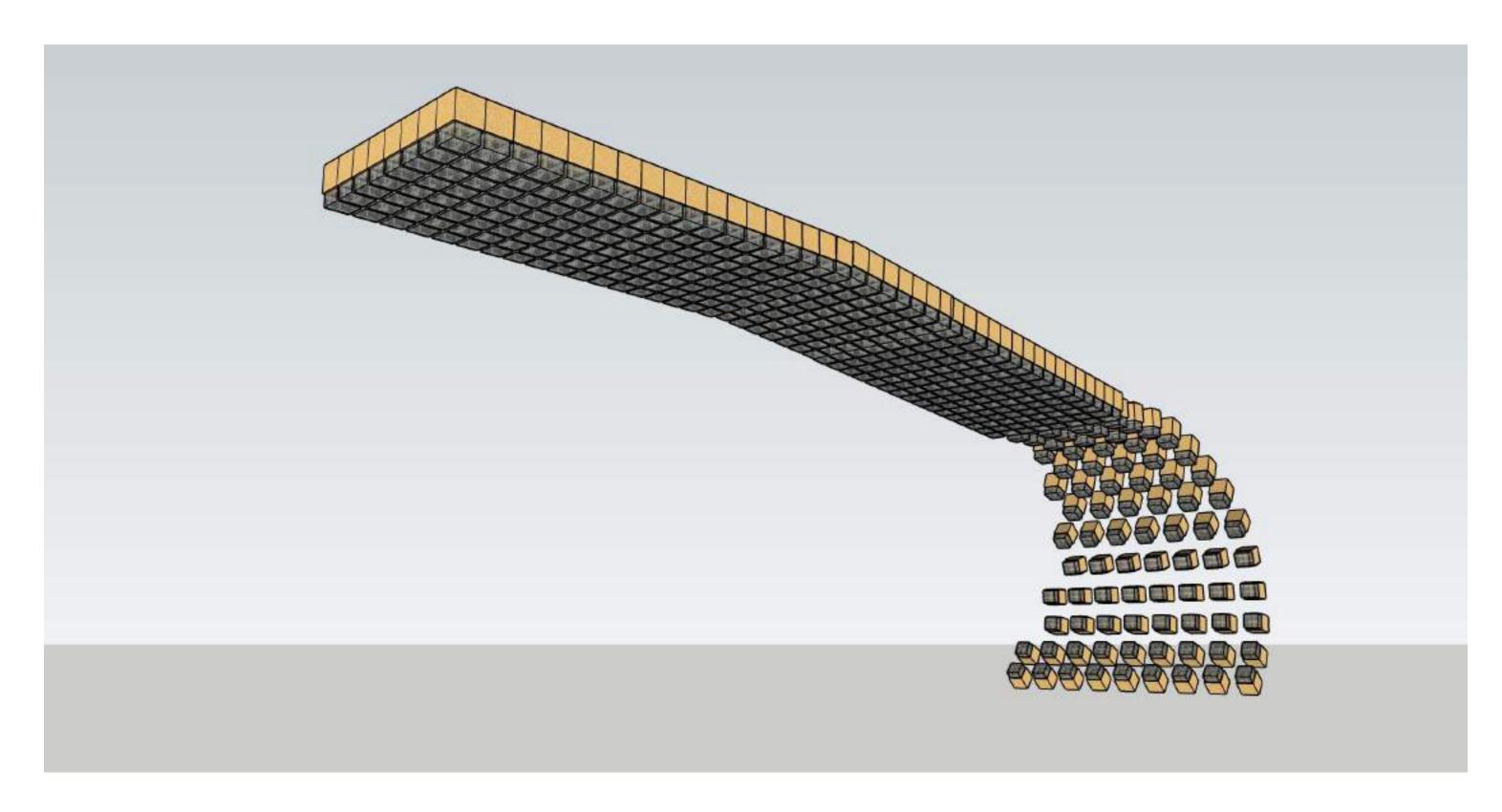


Finally I use this design and created a light installation for the entrance of the store and into the store space, each row would move at the same time and create a wave movement, this would make the costumer want to walk into the store like the light is pulling the customer inside to the main store area, there would me a motor for each row of the light pulling it up and down.

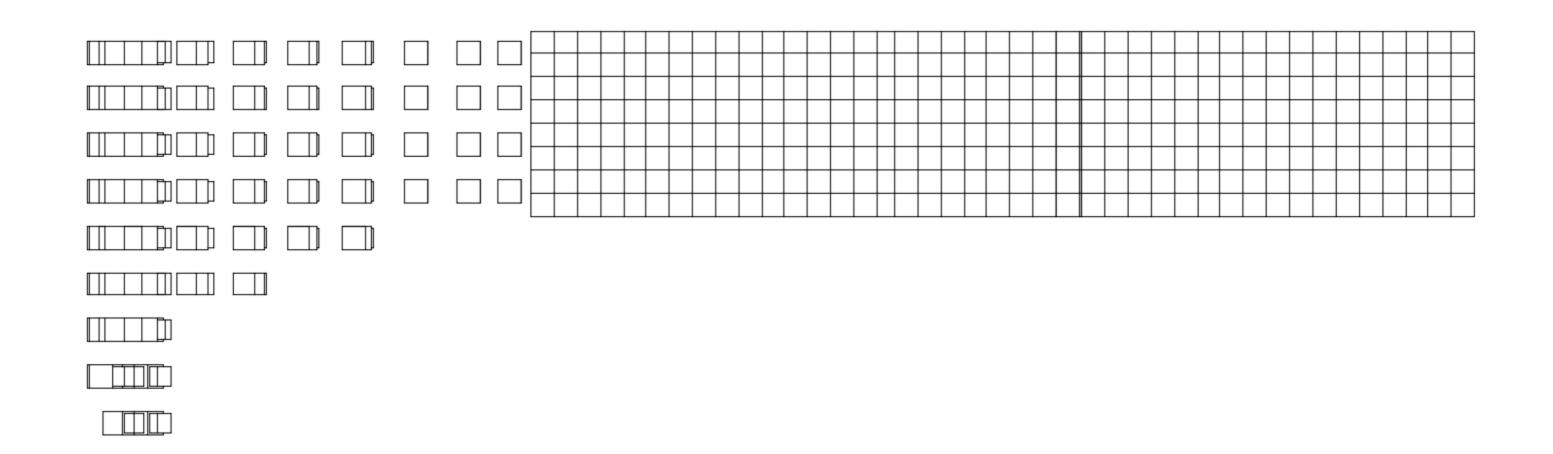




I made a model of the light design (I had only A4 paper and tape at home and all the material store in Thailand is close right now) but the outcome of the model doesnt look like the final design at all but I wanted to show the shape and form of the light design



Light installation



Plan of the light installation

