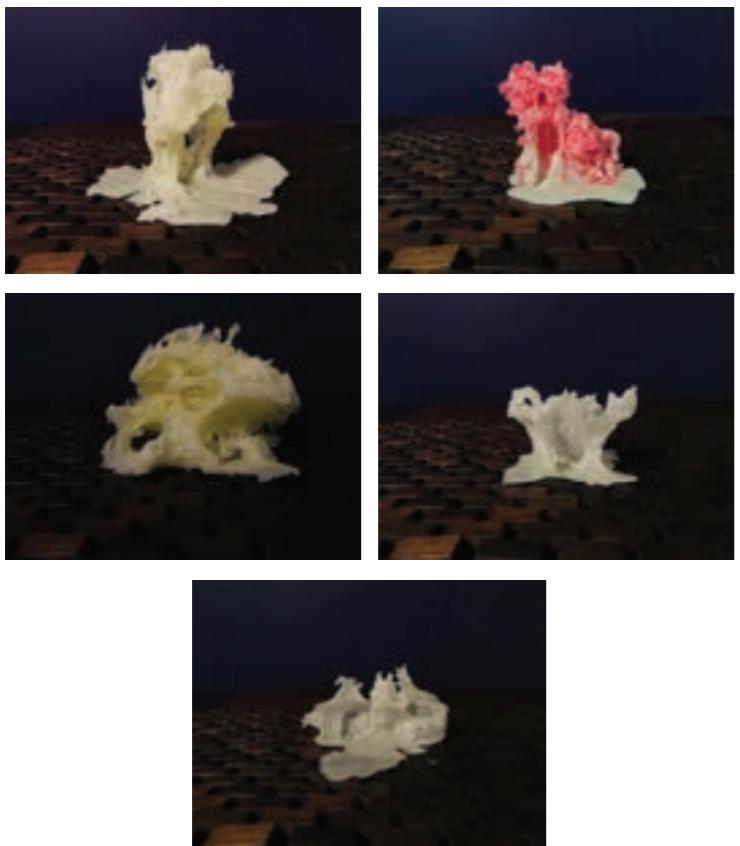




Design Portfolio  
11221 Architectural Design: Strategy  
Aaron Sagg  
13287596

# Material Fragment



## Fragment Analysis 1 -

The initial fragment pours involved small scale experimentation into the form capability of paraffin wax. The experimentation illustrated the controlled results of early material binding through gelatin and wax, with further conclusions of structural potential through ceramic plate and bowl dips. The results of these experiments allowed for an insight into the necessity to control form through specific techniques of method manipulation, illustrating the requirement to create a dynamic process of creation, being the constant change of ingredients, molds, methods and steps of application. The further essential element of design is thought within the importance of scale as well as the operation of wax when utilised on a larger scale. Therefore by doing so, all elements of design will need to be scaled up in order to accommodate for the new experimentation models.

### Ingredients:

- 100g Pillar Candle 68mm x 150mm
- 120mm Diameter Ceramic Cup
- 175mm Diameter, 150mm Deep Bowl (Water 18°C Filled)
- 700ml Stove Pot
- Safety Gloves

**Mold:** - 175mm Diameter, 150mm Deep Bowl  
**Method:** - Quick drop into deep bowl

**Steps:** - Melt 100g of wax into stove pot on low heat  
- Once immediately melted pour immediately into the 70mm Diameter Ceramic Cup to fill  
- Wearing the safety gloves, quickly drop the 70mm Diameter Ceramic Cup into the 175mm Diameter, 150mm Deep Bowl (Water 18°C Filled)  
- Wait 4 - 5 minutes for the wax to cool and settle  
- Remove the mold

## Fragment Analysis 3 -

The introduction of gelatin doesn't completely mix within the wax, reprimanding any form of material solubility, resulting in a series of quick mix pours. The resulting structures become considerably stronger and more dense, whilst retaining more internal water. The structures however lack the internal structural necessities to be considered habitual space as well as having a specific control method that can efficiently and effectively pour the wax. This insight brought about the necessity for armature research and development.

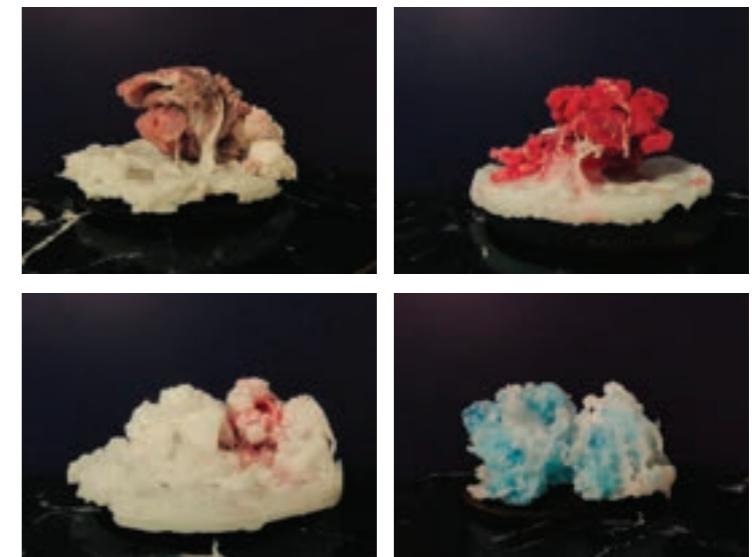
**Ingredients:** - 500g Pillar Candle 68mm x 150mm - 3L Mixing Bowl (Water 18°C 2.5L Filled) -

700ml Stove Pot - 400ml (Water 18°C) - 170g A. Jelly (Gelatin) (2 packs Red) - 600ml Plastic Vertical Container - 200g Pillar Candle 68mm x 150mm - Mixing Spoon

**Mold:** - 3L Mixing Bowl (Water 18°C 2.5L Filled)

**Method:** - High to Low pour from 600ml Container into Mixing Bowl

**Steps:** - Melt 700g of wax into stove pot on low heat, only use 400g - Once melted, free pour 400g wax into 3L mixing bowl (Water 18°C) - Use the remaining 300g of wax to pour into 600ml Plastic Vertical Container - Once melted wax is contained, add 170g of Gelatin (2 packs) to the wax mixture and mix vigorously - Whilst mixing, begin to pour the mixture into the 3L mixing bowl which contains semi-settled 400g of wax. Pour the mixture from a higher point and begin to lower.  
- Pour 400ml (Water 18°C) slowly into the mixture whilst shaking to allow residual hot wax to settle before taking from the mold.



## Fragment Analysis 4 -

The final experimentation designs utilised severly different methods of creation in order to achieve and internal, column space. The previous models had been essential in understanding the materiality, however vary considerably in success depending on the methods used which were constantly changing. These designs introduced the drastic change in mold, tempreture and specific pouring methods, this was utilised in order to confirm any final material speculations before intiating use of the armiture to create the final spectrum of models. These experiments confirmed certain control methods in order to achieve a stable spatial construct, as well as the primary amount of wax necessary to achieve the perfect structural scale.

The final implementation of gelatin would be added within the final models in order to confirm effect of gelatin on the structural form.

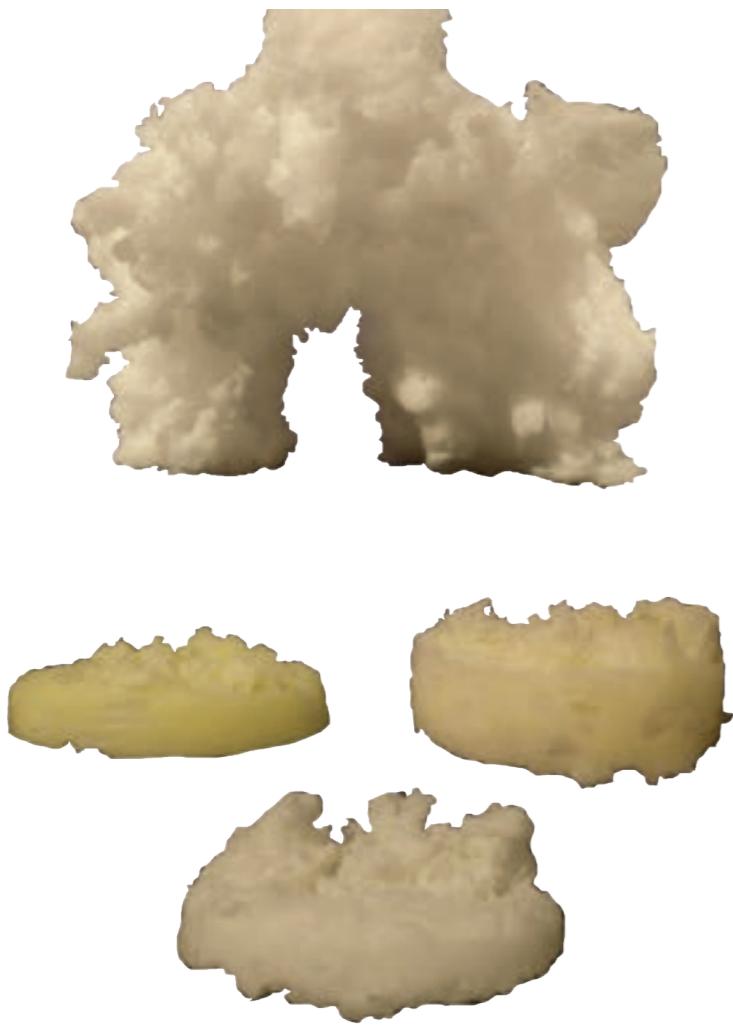
**Ingredients:** - 500g House Hold Singular Candles 190mm - 4L Crumpled, Molded Aluminium

Oven Tray (Water 18°C) - 700ml Stove Pot - 300ml (Water 18°C)

**Mold:** - 4L Crumpled, Molded Aluminium Oven Tray (Water 18°C)

**Method:** - High, 60cm Singular Free Hand Pour  
**Steps:** - Melt 500g of wax into stove pot on low heat  
- Once melted, allow for 1 minute to pass with wax still burning  
- Begin the high, 60cm singular free hand pour into the Aluminium Oven Tray  
- Allow the melted wax to settle for 2 minutes  
- Once semi-settled, begin to slowly add the 300ml (Water 18°C) to the top of the tray whilst shaking.  
- Allow to completely settle before removing the wax from the mold.

# Material Fragment



## Fragment Analysis 6 - Pre-Final Fragment

The creation of this model provided a significantly intriguing internal dynamic with column-wall structures surrounding the construct. The addition of gelatin through the pouring method allowed for internal structural rigidity as well as contribution towards material layering. However instances of uncontrolled issue did occur, significantly within the capability for adequate roofing as well as complexity of entering and exiting the internal space, which itself presents problems of difficulty regarding the small size and depth of the internal cavity. Therefore the necessity to disregard the capability of gelatin became apparent with capacity to fully realise the potential of previous models, specifically the three column creation which included all aspects of essential structure. The price of constant experimentation had resulted in the capability to accurately predict the result of created structure when made through the armature. The necessity for columns provided a structurally logical comparison to modern pavilions that require support from three different locations, in order to hold up the load within the roofing.

## Fragment Analysis 5 - Final Designs

The utilisation of the armature allowed for a consistent control over the creation of all further models. The aspect of the variability was within the decision to change the specific methods or ingredients, as well as positioning of the nozzles in order to achieve the desired space. The initial three pours resulted in the creation of flat structures without columns or internal habitable space. However the final pour, with decision to change the varied height of positioned pour, created columns and space.

### Ingredients:

- 3 x Pillar Candle 68mm x 150mm (Unscented)
- 25L Industrial Plastic Vertical Bucket Mold (5L Filled, Water 8°C)
- 2L Stove Pot
- 1L (Water 18°C)
- Plastic 1L Container (Water 18°C)
- 3 x 2L Plastic Bowls

### Mold:

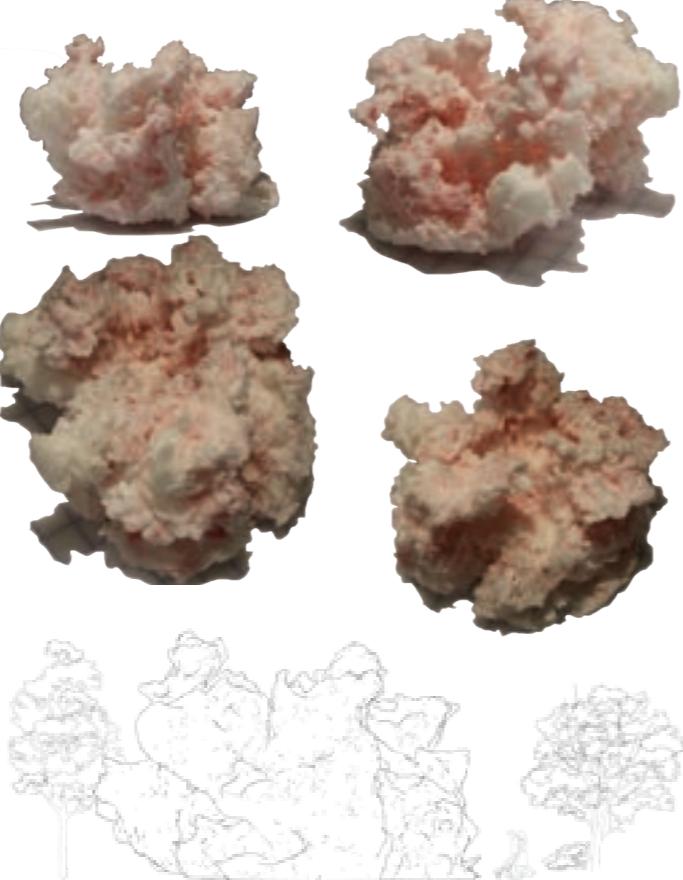
- 25L Industrial Plastic Vertical Bucket Mold (5L Filled, Water 8°C)

### Method:

- Armature Funnel Pour, Three Locations with Extended Nozzle into 50L Industrial Metal Bucket Mold (Water 18°C)

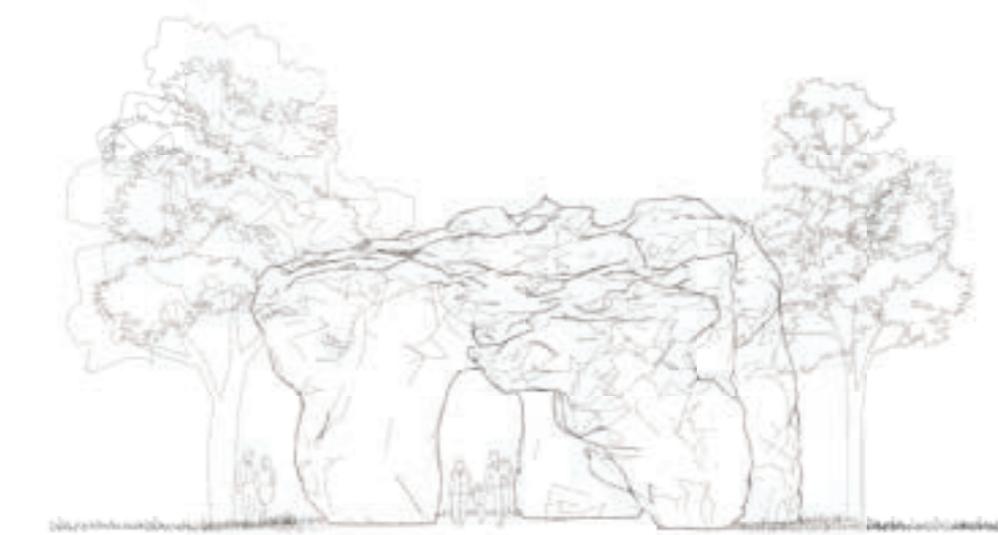
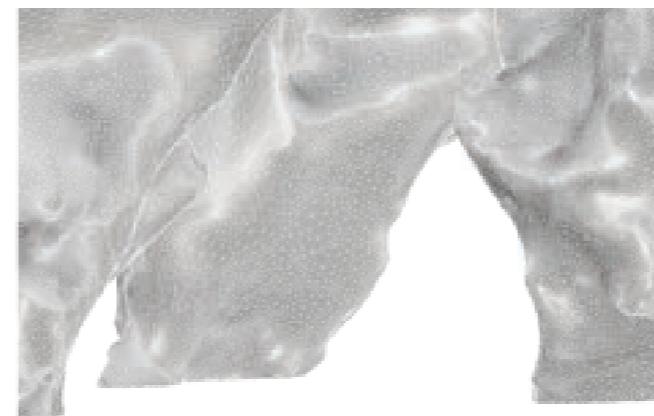
### Steps:

- Melt 3 x Pillar Candle 68mm x 150mm (Unscented) of wax into stove pot on low heat
- Once melted, allow for 1 minute to pass with wax still burning
- Fill 25L Industrial Plastic Vertical Bucket Mold with 5L, 8°C Water and place into Armature
- Once wax is melted, pour evenly into 3 of the 2L Plastic Bowls
- Pour one 3 wax filled 2L Plastic Bowls into each of the funnels
- Begin to slowly add the water from the Plastic 1L Container (Water 18°C) into the bucket to help wax settle
- Allow wax to completely settle before removing the mold



## Fragment Analysis 7 - Final

The final structure contains three main pillars with the main hind pillar beginning to split into two. The additional frontal pillars, specifically the right position has become a structural necessity in order to support the constructed design. The slanted left pillar provides minimal support, however provides access for the capability of a slanted roof which both protects from rainfall as well as provides adequate shading which will become necessity within the contextual confines of Centennial Park. The overall materiality and texture is rough and inconsistent, reminiscent of the pours of concrete onto structural meshing. The methodology of creation was similar to that of the final designs, proving the capability to replicate the structure where necessary based off previous controls. The structure has three entrances and exits, being the main frontal entrance as well as two adjacent smaller pathways. The roofing provides consistent cover and shade whilst the internal space being large enough to contain limited amounts of people within one specific time. The analysis into the materiality shows the true capability of wax when testing the boundaries of its material limits. The capability to create a unique structural pavilion was a result of many failed and successful experiments that ultimately resulting in the creation of a purposefully designed armature as well as specific methods of creation that ensure similar results.

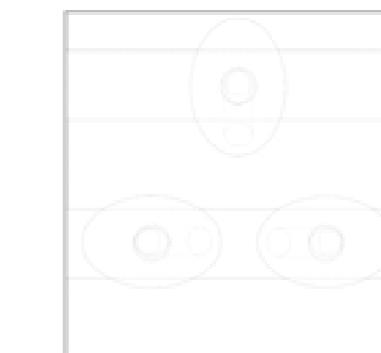
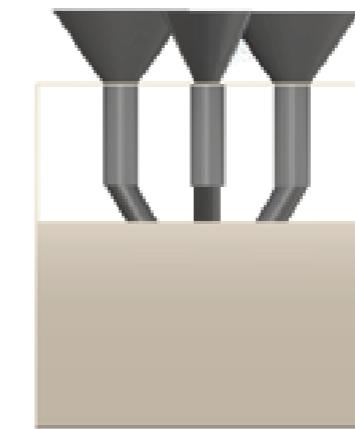
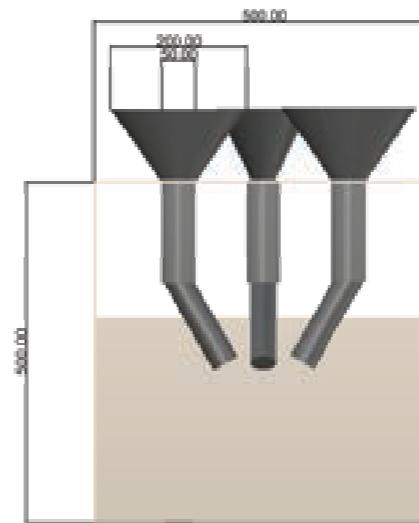


# Material System Apparatus



## Material System Apparatus:

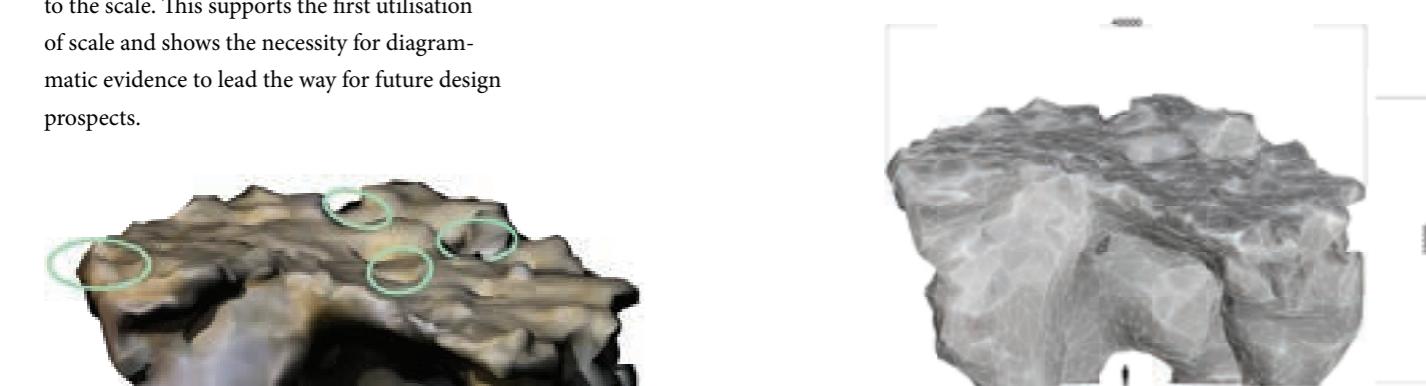
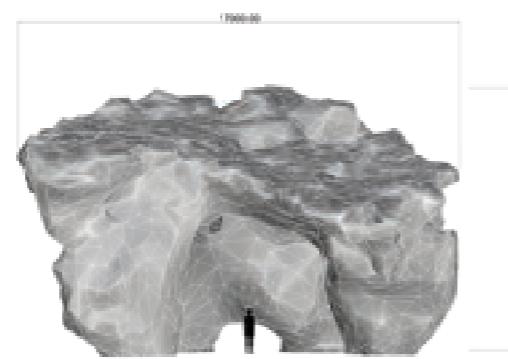
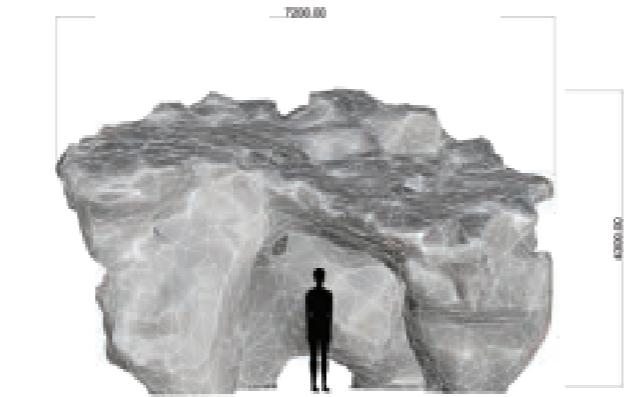
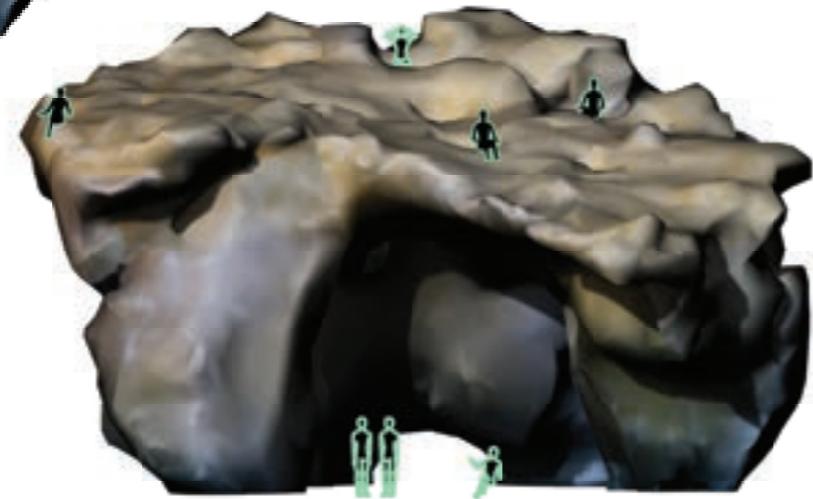
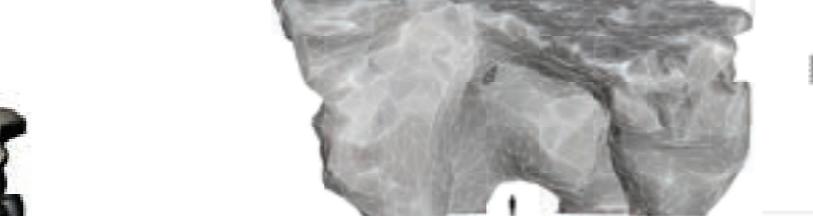
The apparatus used to create the final designs was initially designed with the potential to create columns through angulation of the funnel systems. Through the manipulation of specific variables, like amount of water or height of the funnels, it became fully realised as a material system apparatus rather than final replicated prototype. The addition of fully enclosed plywood sides ensured the safety of the conductor whilst being constructs to hold the upper panels in place above, which are moveable. The funnels themselves have three different forms which include the extended long nozzle, mid length nozzle and short nozzle. Through utilisation of each it became apparent that in order to create specifically targeted columns that the longest nozzle would be superior. The mold utilised was a metal bucket that had an overall capacity of 50L, which is a significant jump from the first initial experiments which had a maximum capacity of 100ml to 200ml. The one remaining issue however is the inclusion of human error which is capable. If complete care is not taken into the timing, length of the pour or where in the funnel to pour the final result can be significantly altered. When care is taken then the results are surprisingly predictable with the assurance that resulting models will maintain columns. However the potential for extensive column implementation isn't probable with three main funnels, therefore requiring the addition of more funnels. By increasing this number, the spatial dynamic within 500mm x 500mm becomes extensively cramped and in-operable.



# Diagrammatic Strategies

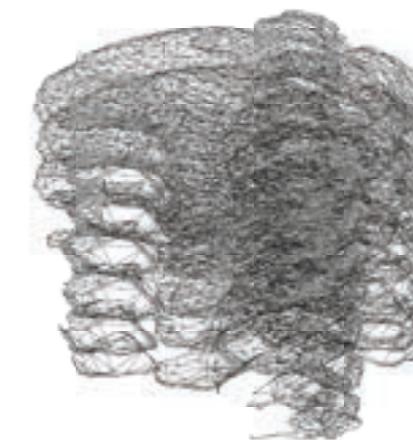
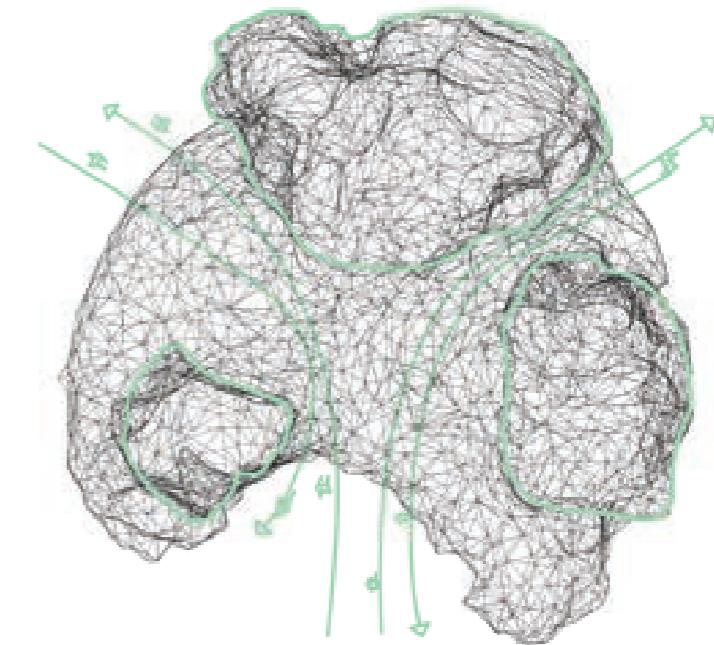
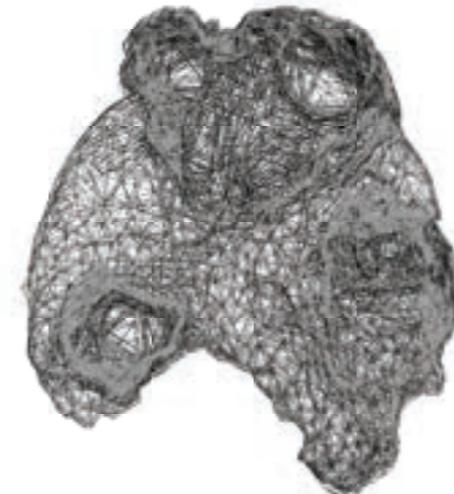
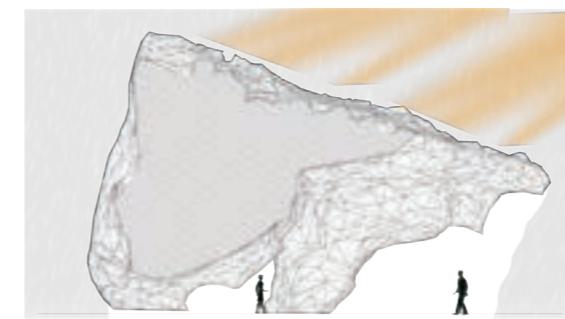
## Diagrammatic Strategies: Scale -

The initial strategy of diagramming the final model resulted in detailing the complexity of scale. Three major scales were considered based on application of human interaction as well as the structural practicality and contextual relevance. The second and third option, being the two significantly larger proposals resulted in a lack of necessary association and affect between the individual and structure, although grand, the true complexity and interactive capability becomes marginalised by the size of the structure itself, therefore the first option made logical and architectural sense. The structural dynamic between construct and individual however can only truly be realised through implementation of individuals within that scale, the second option was considered for this to eliminate any further doubt. Once placing the people within the structure, it becomes clearly evident of the disparity between human and architecture due almost exclusively to the scale. This supports the first utilisation of scale and shows the necessity for diagrammatic evidence to lead the way for future design prospects.

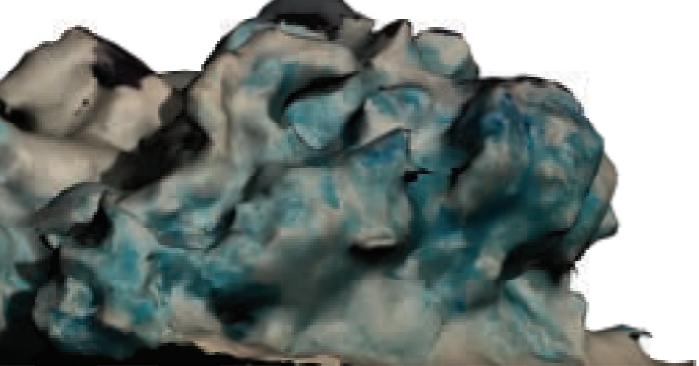
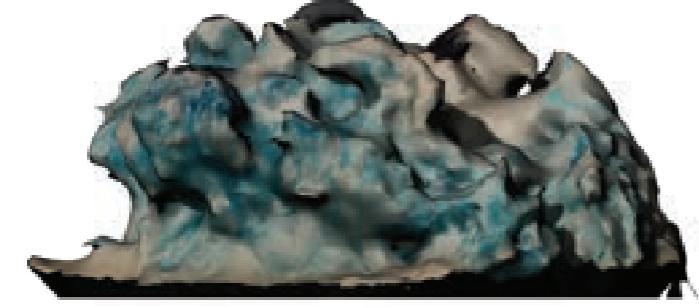


## Diagrammatic Strategies: Movement and Structural Complexity -

The smaller scale allows for clearer diagrammatic representation of movement patterns within an intimate and unique spatial realm. The three pillars allow for the guidance and shift in perspective around into an emerging area, which within the contextual relevance of Centennial park will allow for three unique differing perspective views. The second diagrammatic implementation is necessity to understand the structural complexity of the construct, in an advance to understanding how the structure is layered through different widths and lengths. This material 'stacking' allows for further understanding into how the internal structure may be made up, where the right side structural column may require adequate bracing beyond the internal wall structures. The final diagram details the significance of the slanted roof, as well as large back pillar which protect against almost all environmental influences specifically rain and significant sunshine. Through detailing this on a larger scale, it became apparent that the success of the structures ability to shield from the elements may be compromised by size, depending on severity and angulation of rainfall.



# Material Scanning

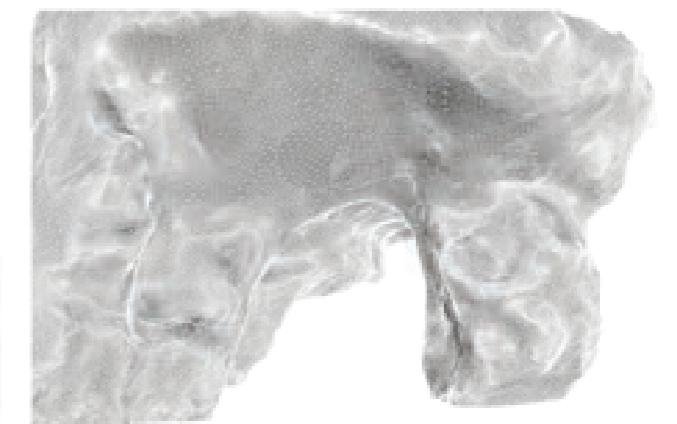
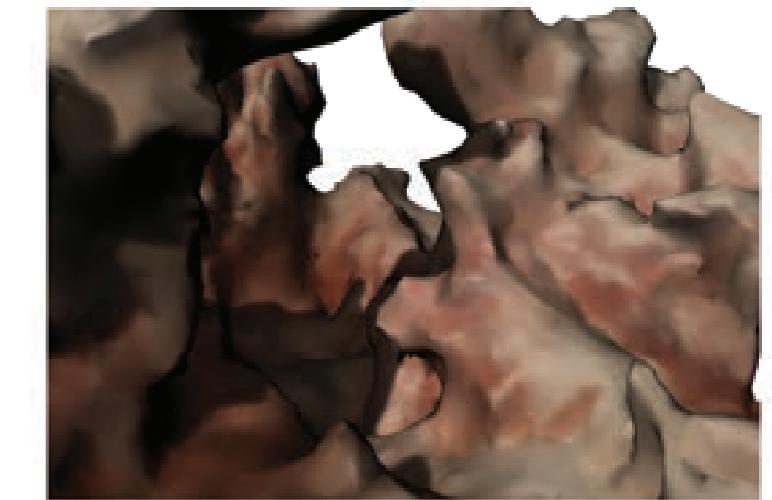
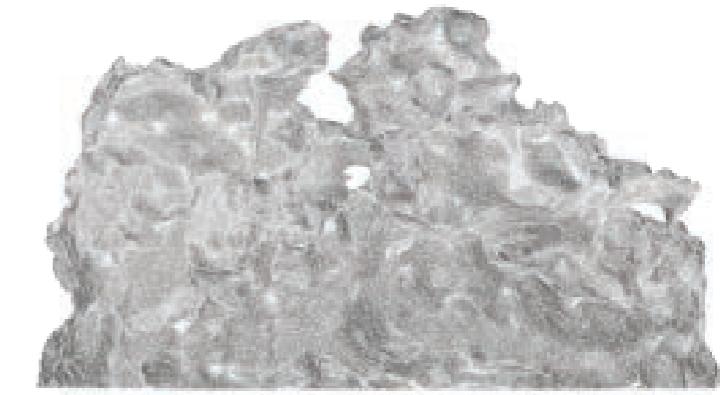
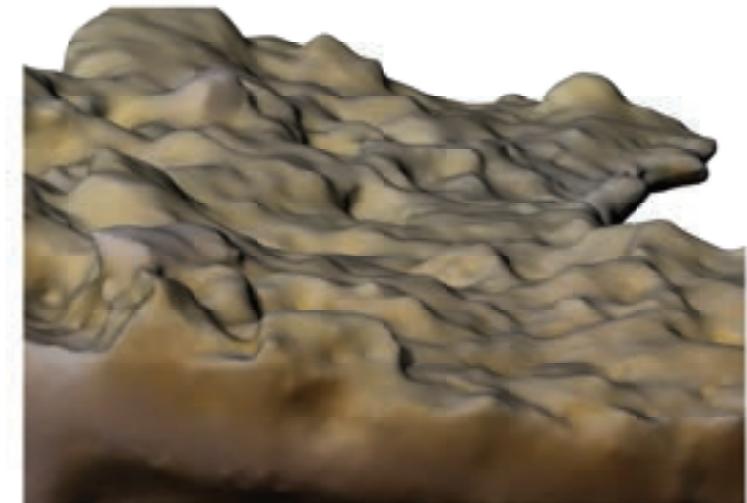
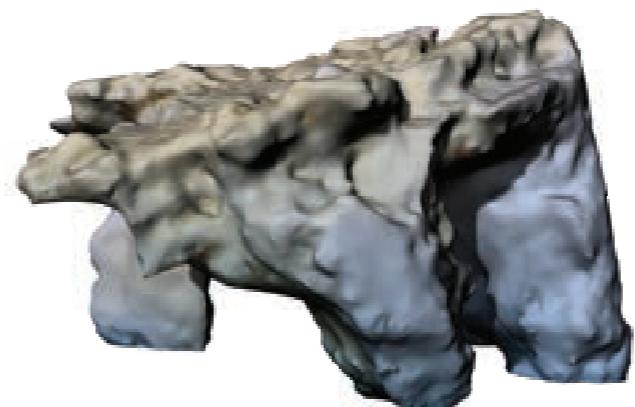
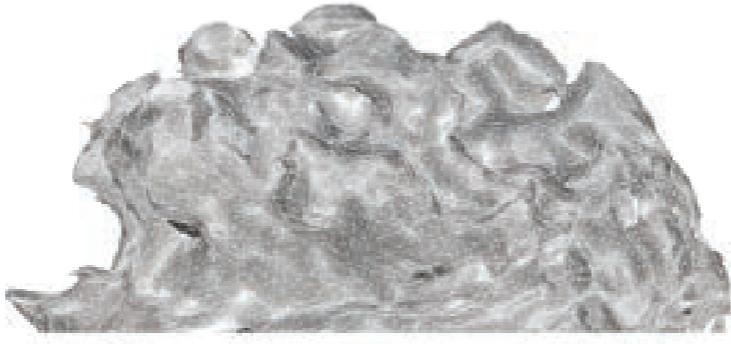


## Material Scanning: Experiments

The differentiation between the original model scans throughout the experimentation phase and the gelatin layered scans provided, allowed for a indepth visual analysis of the intricate structural forms gelatin can create. The further influence of gelatin allowed for a greater, more detailed visual understanding of structural depth, as well as adding an appealing aesthetic thats original in design, not result of post design implementation. Beyond the scanning of gelatin structures, the experiments themselves allowed for the ability to understand how to perfect the nature of scanning and understanding the intricacy of wax materiality through the process. Wax itself through the state of model form, contains many small intricate notches which require extensive care when analysing.

## Material Scanning: Final

The final experimentation forms required the most care. The pre-final design was intricate throughout the internal and external structure whilst having seperate emerging walls evident throughout. Although the design itself was complex, it didn't contain the required necessary features for adequate internal space as a pavillion. The final design, on the individual mesh level, was considerably more detailed. All the intricate bumps and spots throughout the images are replicated thoroughly within the scans and allow for a further insight into the internal space as well as internal detailed structures. The roof itself is a further example of the level of detailed achieved through adequate scanning.



# Site Plan



Site Plan: 1 : 100

Through closer identification, it becomes clear that intrigue will drive individuals to seek out the space, whilst people approaching from any side of each footpath, being nine potential entry or exit points, will have this option available. This aspect is further backed by individuals already on the grass, which may depend on weather and external conditions.

1:100

1:500

Site Plan: 1 : 500

The positioning of the pavilion within this specific location within Centennial Park was result of analysing prime movement paths as well as immediate visual contact. The space itself is the least densely crowded with trees and structures than other spatial locations, whilst maintaining enough roof for the structures potential to be fully realised as a habitable, resonant structure. The structure also sits on a flat elevated plane with slight decline closer to the adjacent footpath, which doesn't effect the concrete foundations which the pavilion lays upon. The affect of the structure provides the optional occurrence of any emotion evoking event, which within this case is affiliated with the concept of intrigue. Once within the space, the idea of being encased within a large wax pavilion structure begins to incite a variety of emotional and rational responses, being how the structure is constructed?, what's the meaning behind the structure's relevance to the park? or determining the functionality of the structure as well. Any experience is effectively personal, with the optional capability to seek out the space rather than simply just admire by passing by.



# Perspective



# Perspective

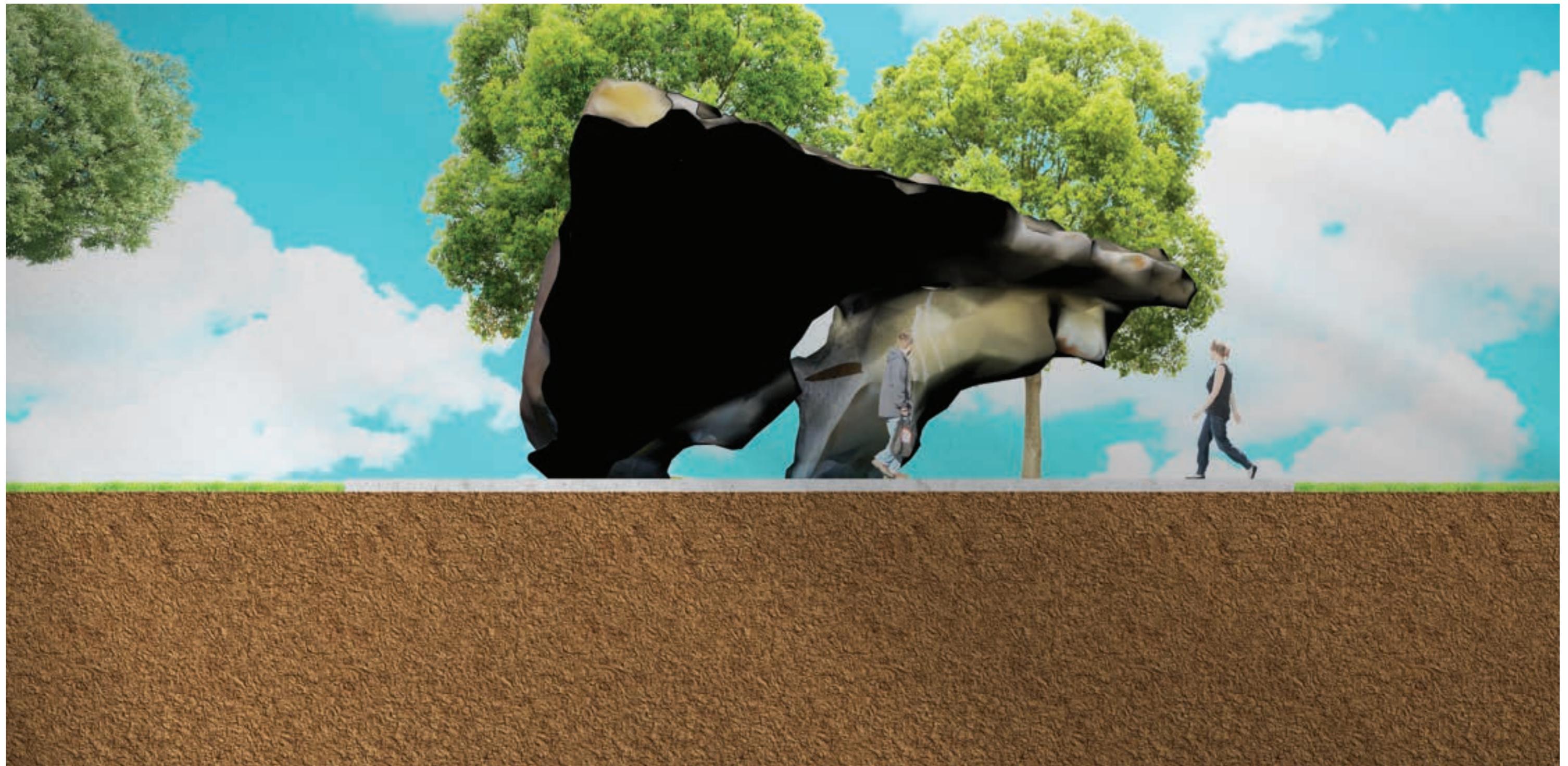


Aaron Saggù 13287596  
Tutor: Adrian Taylor

# Pavillion Plan 1:10



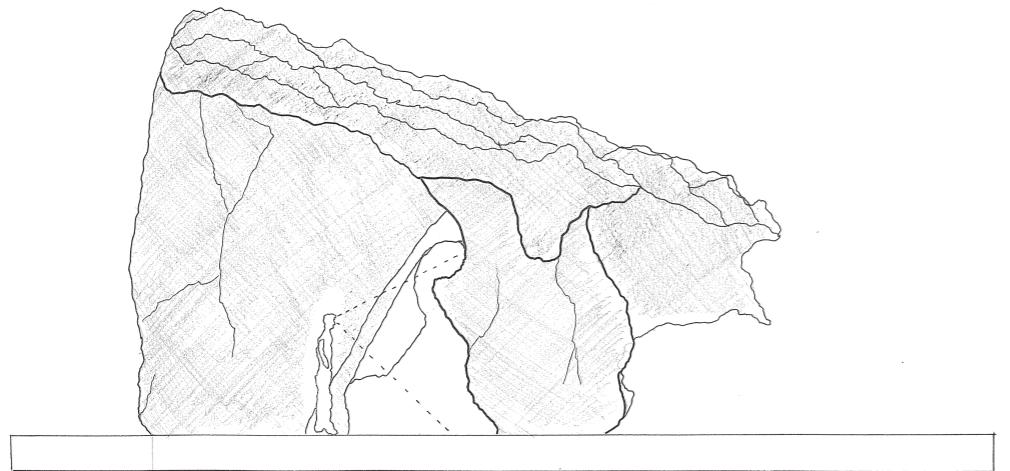
# Pavillion Section 1: 1:10



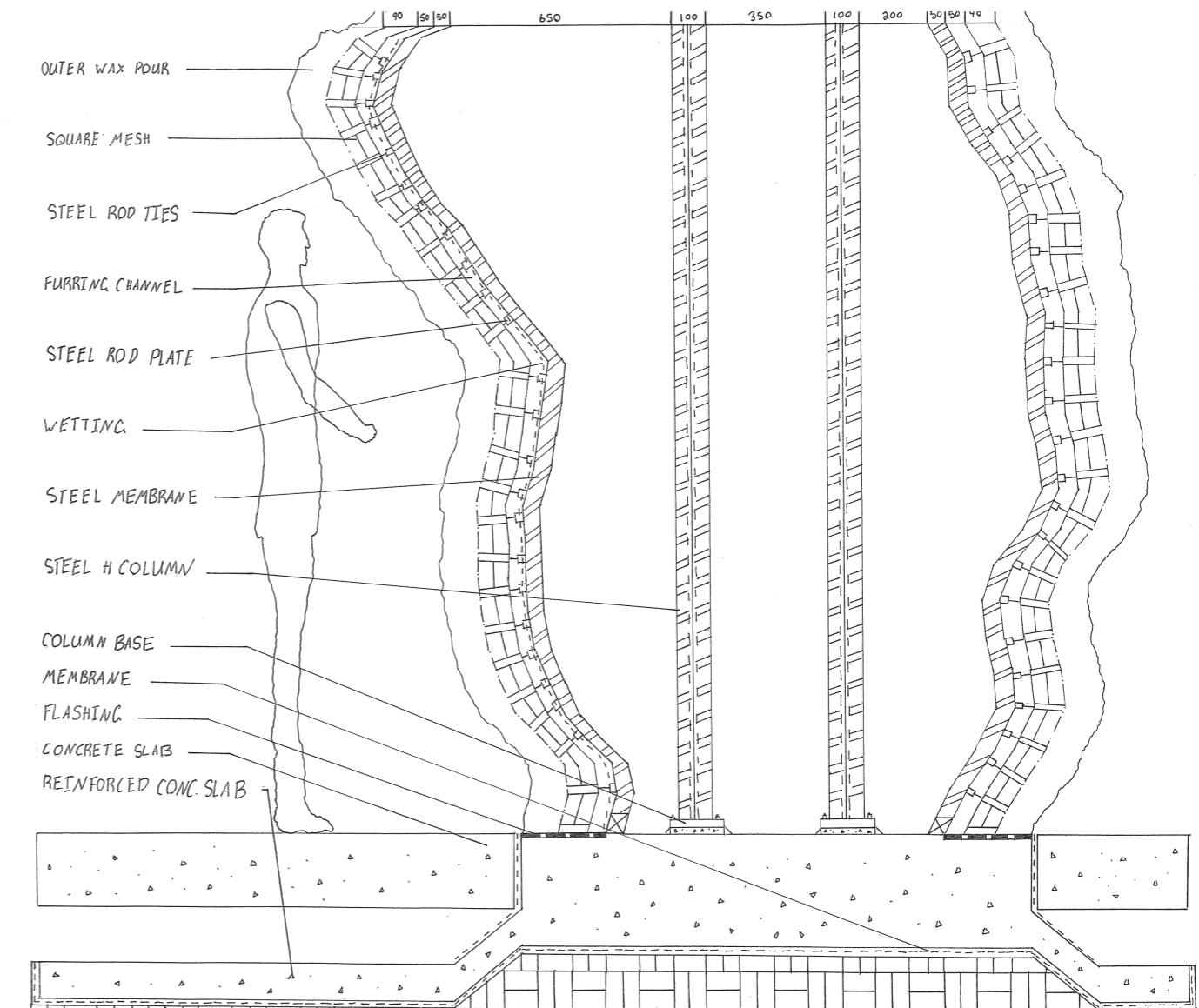
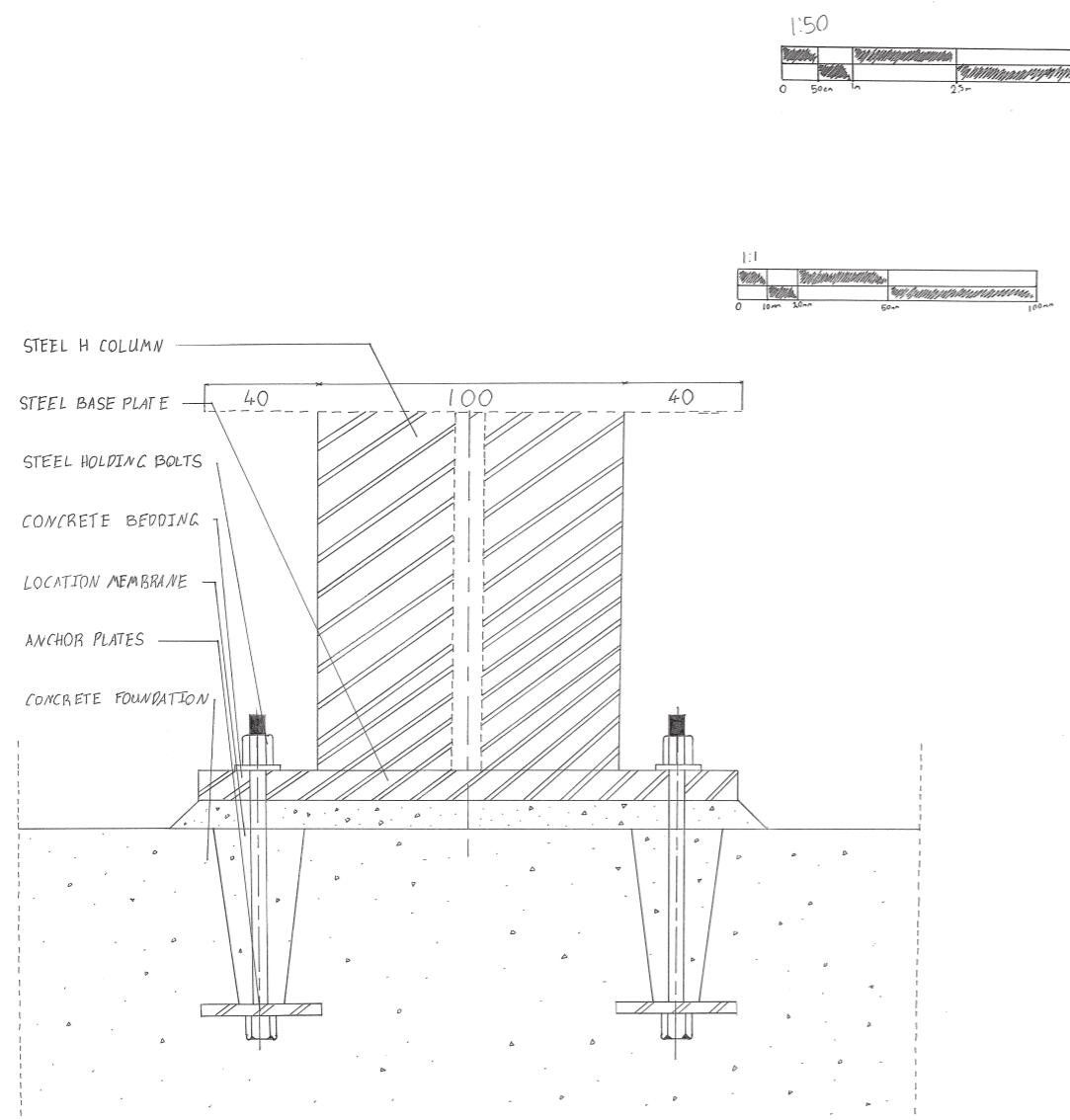
## Pavillion Section 2: 1:10



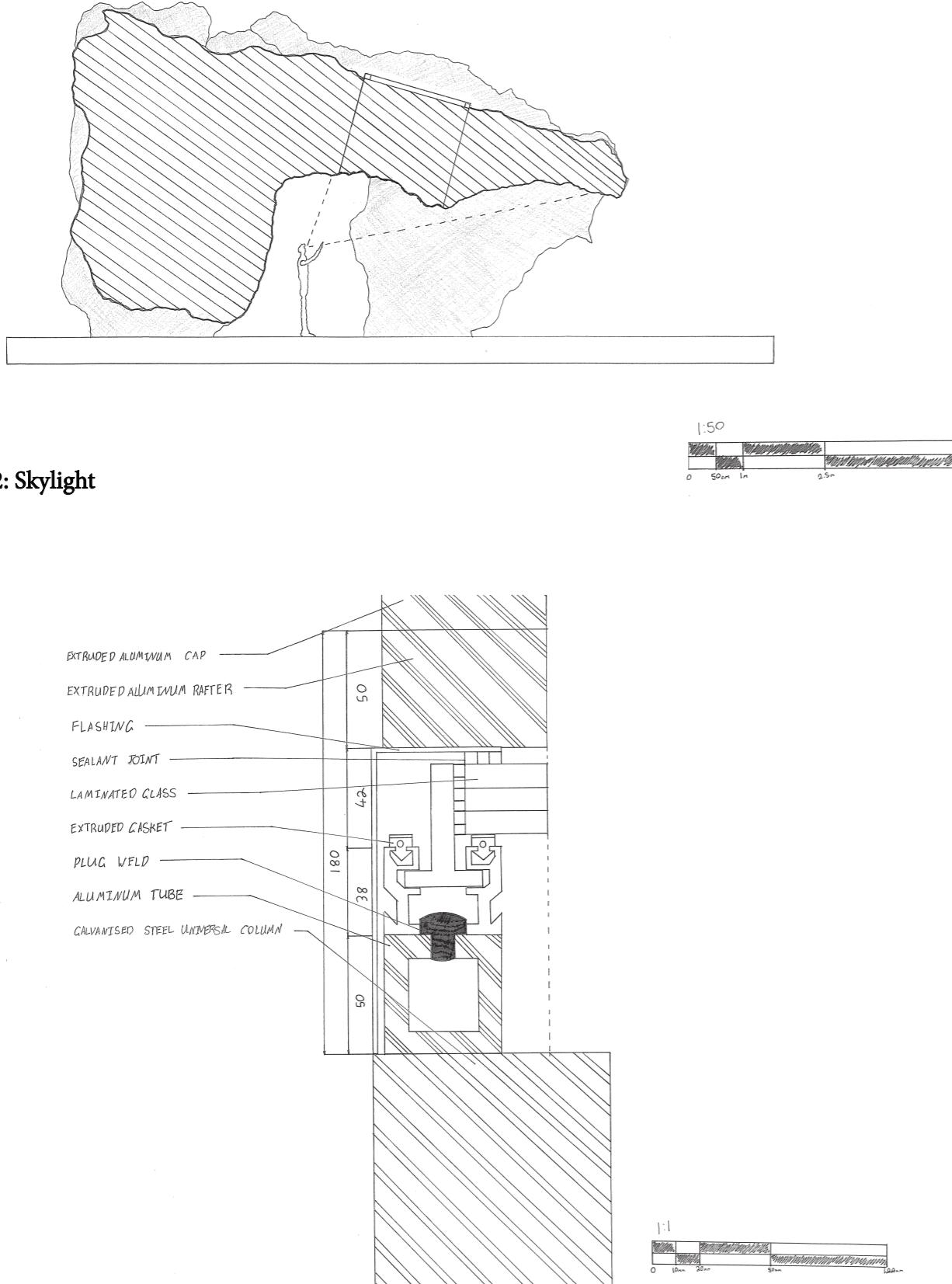
# Technical Sections & Details



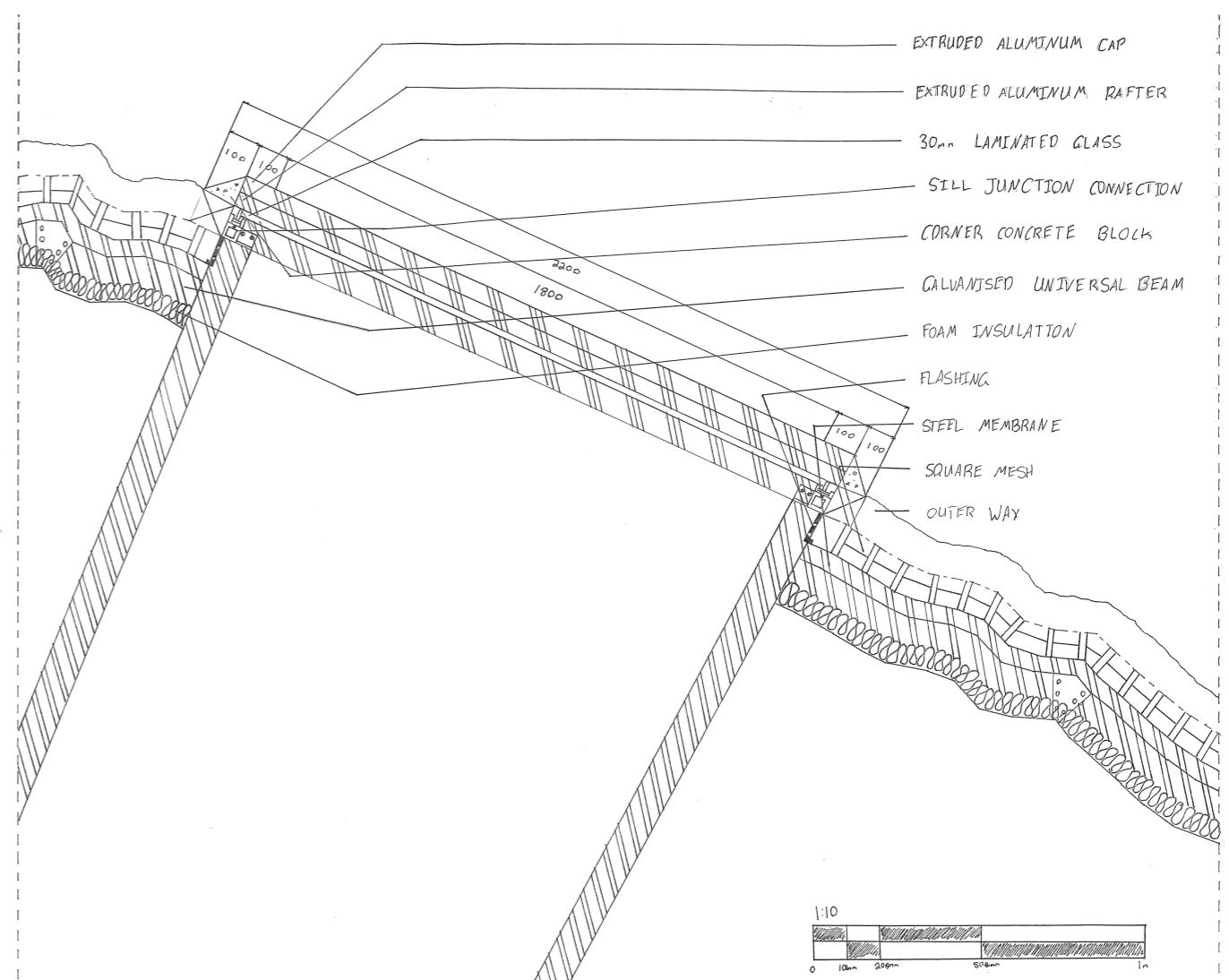
Scenario 1: Pillar



# Technical Sections & Details

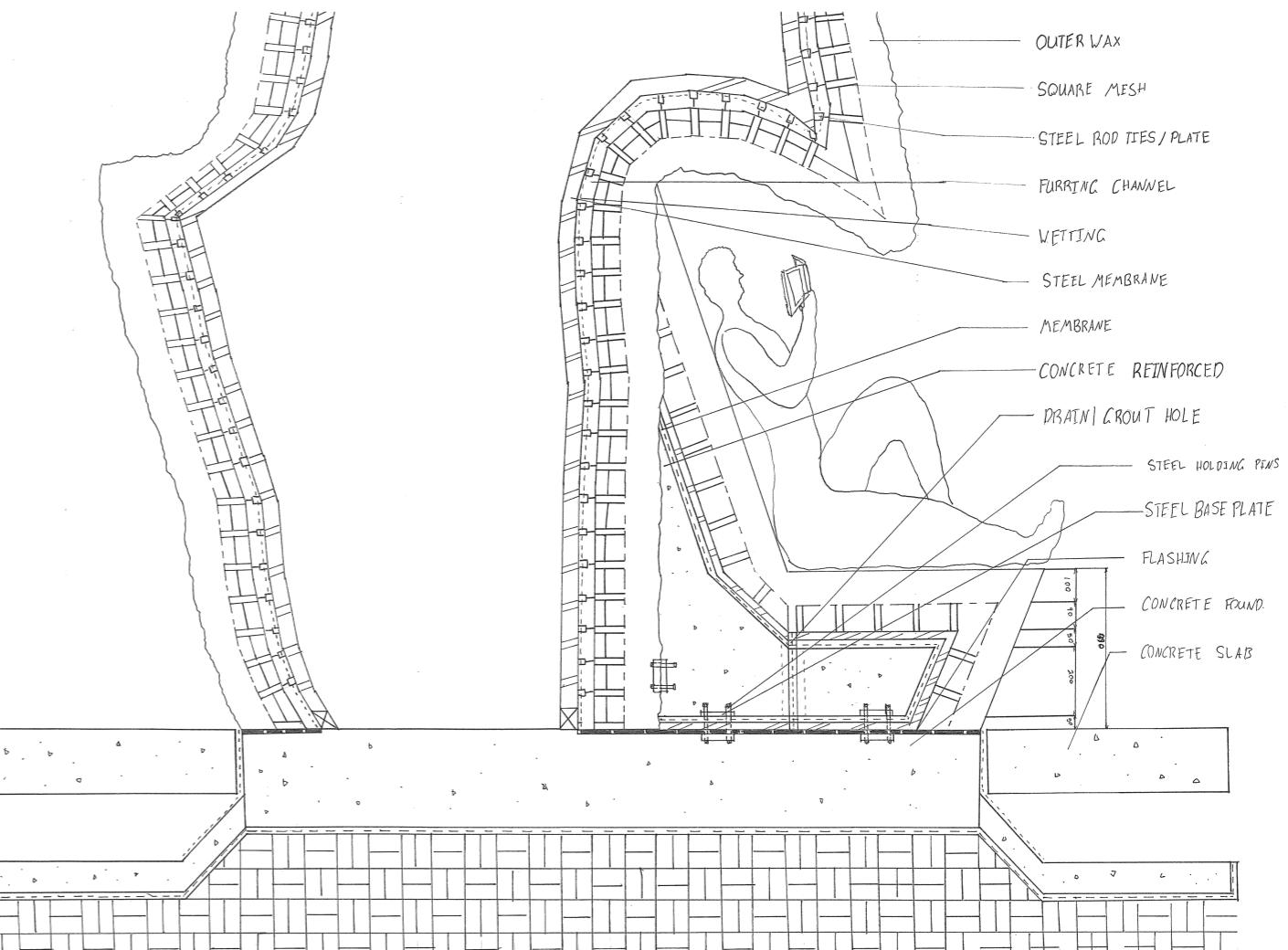
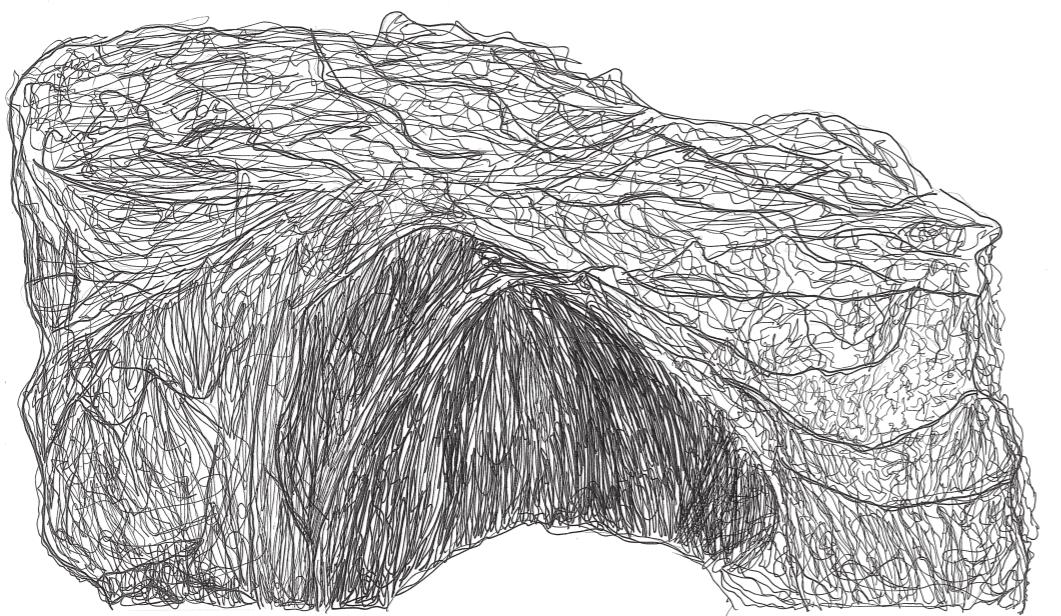
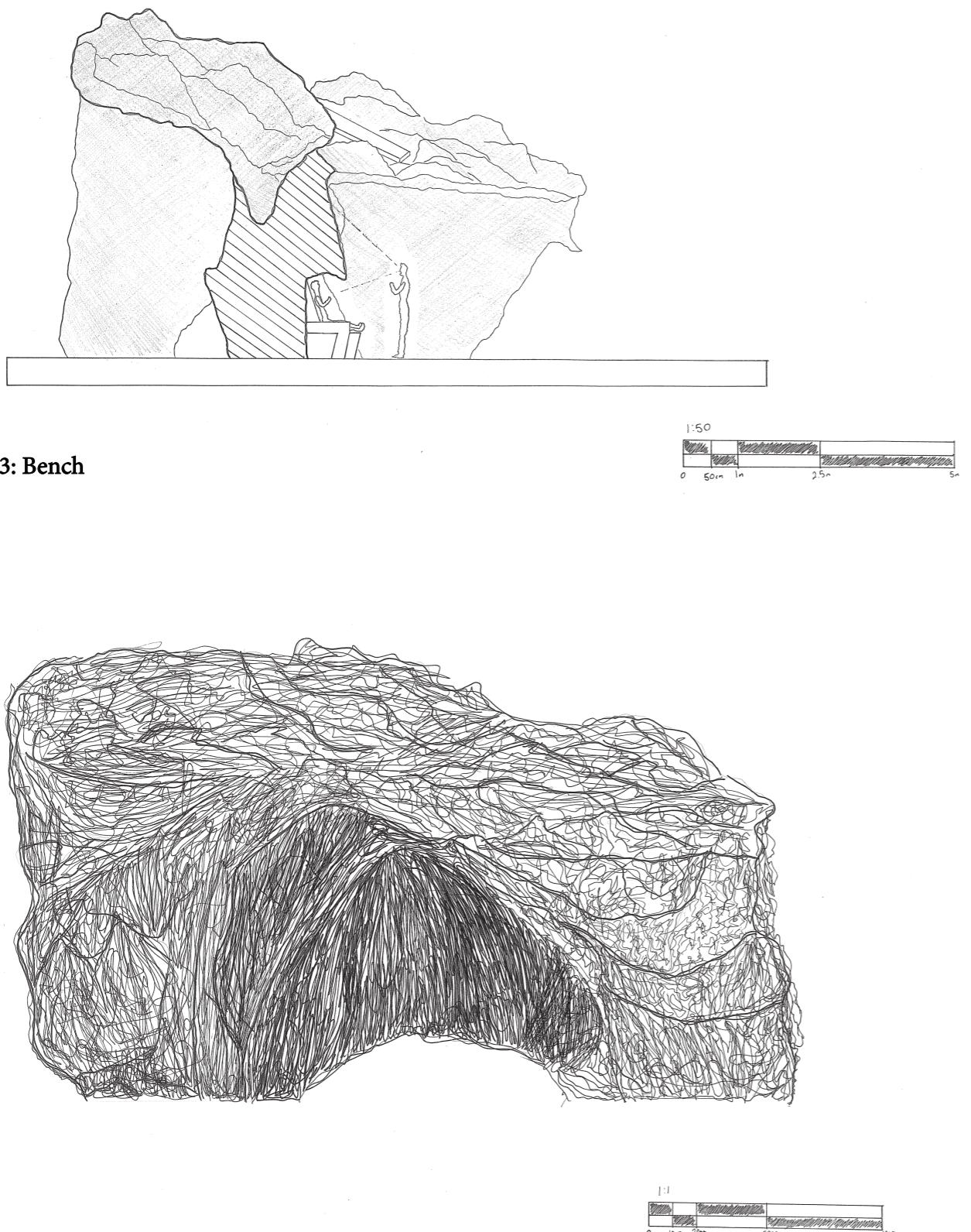


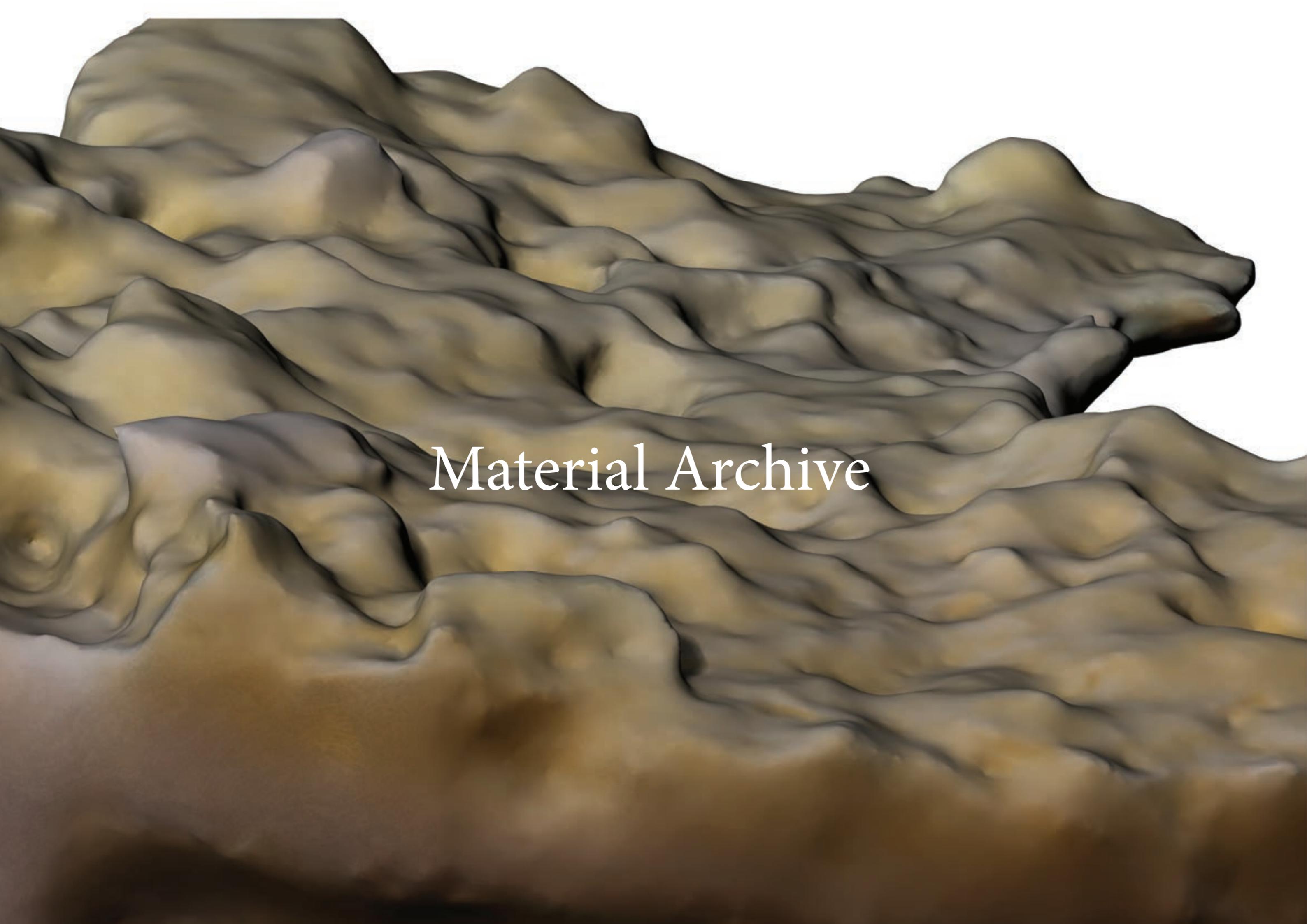
#### **Call Out 2: Sill Junction Connection**



## Detail 2: Skylight

# Technical Sections & Details



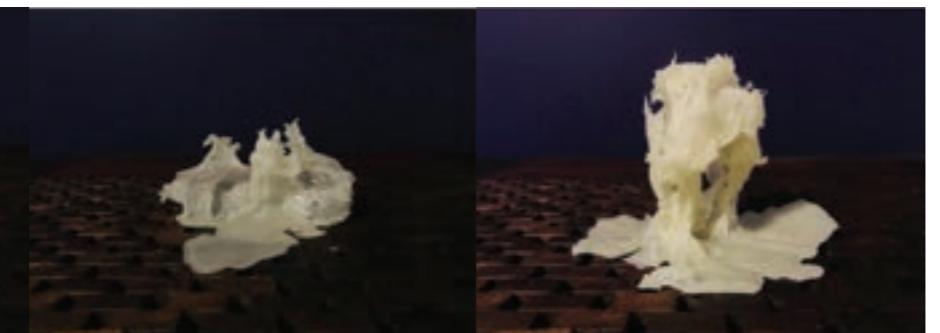
The background of the image features a complex, organic texture resembling flowing liquid or draped fabric. It is composed of numerous layers of wavy, undulating shapes in shades of brown, tan, and dark grey. The lighting creates highlights and shadows that emphasize the depth and movement of the material, giving it a sense of fluidity and organic form.

Material Archive



## 1) EARLY EXPERIMENTATION: VERTICAL DROP:

- Origin: Paraffin Wax (saturated hydrocarbons)
- Natural/Industrial: Pillar Candle 68mm x 150mm made of Paraffin, saturated hydrocarbons as byproduct of distillation (heating or cooling) of Petroleum.
- Strength (Strong/Weak)/Density: Weak due to small amount of wax being solidified.
- Thermal Behaviour: Cool once settled.
- Moisture (Moist/Dry): Dry due to small amount of wax being used
- Temperature (Hot/Cool): Water Temp 18°C
- Ratio (High/Low): Ratio of utilised materials is low (Wax, Water, Bowl Mold)



## 2) EARLY EXPERIMENTATION: VERTICAL DROP 2:

- Origin: Paraffin Wax (saturated hydrocarbons)
- Natural/Industrial: Pillar Candle 68mm x 150mm made of Paraffin, saturated hydrocarbons as byproduct of distillation (heating or cooling) of Petroleum.
- Strength (Strong/Weak)/Density: Weak due to small amount of wax being solidified.
- Thermal Behaviour: Cool once settled, warm once initially poured.
- Moisture (Moist/Dry): Dry due to small amount of wax being used
- Temperature (Hot/Cool): Water Temp 18°C
- Ratio (High/Low): Ratio of utilised materials is low (Wax, Water, Bowl Mold)

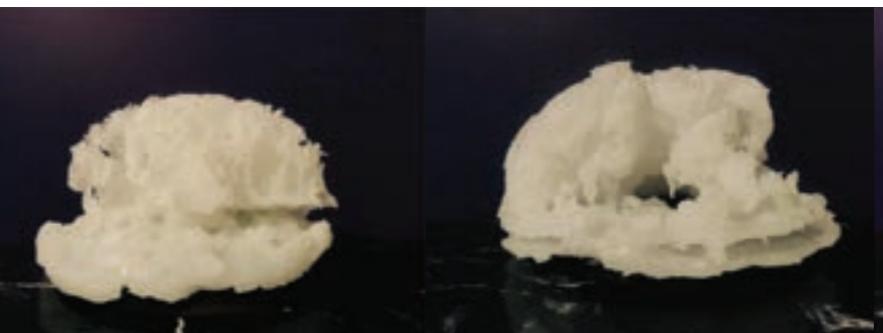
Ingredients: - 100g Pillar Candle 68mm x 150mm  
- 120mm Diameter Ceramic Cup  
- 175mm Diameter, 150mm Deep Bowl (Water 18°C Filled)  
- 700ml Stove Pot  
- Safety Gloves  
Mold: - 175mm Diameter, 150mm Deep Bowl  
Method: - Quick drop into deep bowl  
Steps: - Melt 100g of wax into stove pot on low heat  
- Once melted, quickly pour immediately into the 70mm Diameter Ceramic Cup to fill  
- Wear the safety gloves, quickly drop the 70mm Diameter Ceramic Cup into the 175mm Diameter, 150mm Deep Bowl (Water 18°C Filled)  
- Wait 4 - 5 minutes for the wax to cool and settle  
- Remove the mold

Ingredients: - 100g Pillar Candle 68mm x 150mm  
- 120mm Diameter Ceramic Cup  
- 175mm Diameter, 150mm Deep Bowl (Water 18°C Filled)  
- 700ml Stove Pot  
- Safety Gloves  
Mold: - 175mm Diameter, 150mm Deep Bowl  
Method: - Slow drop into deep bowl  
Steps: - Melt 100g of wax into stove pot on low heat  
- Once melted, quickly pour immediately into the 120mm Diameter Ceramic Cup to fill  
- Wear the safety gloves, quickly drop the 120mm Diameter Ceramic Cup into the 175mm Diameter, 150mm Deep Bowl (Water 18°C Filled)  
- Wait 4 - 5 minutes for the wax to cool and settle  
- Remove the mold

## 3) EARLY EXPERIMENTATION: VERTICAL DROP 3:

- Origin: Paraffin Wax (saturated hydrocarbons)
- Natural/Industrial: Pillar Candle 68mm x 150mm made of Paraffin, saturated hydrocarbons as byproduct of distillation (heating or cooling) of Petroleum.
- Strength (Strong/Weak)/Density: Slightly stronger due to more wax, however weaker at certain vertical points.
- Thermal Behaviour: Cool once settled.
- Moisture (Moist/Dry): Dry due to small amount of wax being used
- Temperature (Hot/Cool): Water Temp 18°C
- Ratio (High/Low): Ratio of utilised materials is low, higher than previous pours (Wax, Water, Bowl Mold)

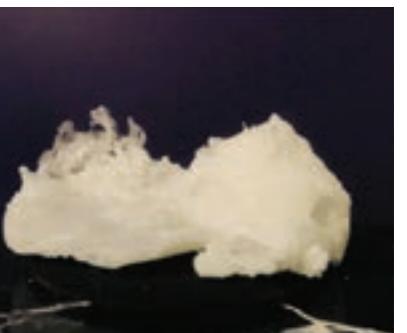
Ingredients: - 150g Pillar Candle 68mm x 150mm  
- 120mm Diameter Ceramic Cup  
- 175mm Diameter, 150mm Deep Bowl (Water 18°C Filled)  
- 700ml Stove Pot  
- Safety Gloves  
Mold: - 175mm Diameter, 150mm Deep Bowl  
Method: - Quick drop into deep bowl  
Steps: - Melt 150g of wax into stove pot on low heat  
- Once melted, quickly pour immediately into the 120mm Diameter Ceramic Cup to fill  
- Wear the safety gloves, quickly drop the 120mm Diameter Ceramic Cup into the 175mm Diameter, 150mm Deep Bowl (Water 18°C Filled)  
- Wait 4 - 5 minutes for the wax to cool and settle  
- Remove the mold



## 10) SINGULAR COLUMN:

- Origin: Paraffin Wax (saturated hydrocarbons)
- Natural/Industrial: Pillar Candle 68mm x 150mm made of Paraffin, saturated hydrocarbons as byproduct of distillation (heating or cooling) of Petroleum.
- Strength (Strong/Weak)/Density: Significantly stronger as a result of spatial density.
- Thermal Behaviour: Cool once settled.
- Moisture (Moist/Dry): Significantly more moist due to amount of wax removed from the water mold
- Temperature (Hot/Cool): Water Temp 18°C
- Ratio (High/Low): Ratio of utilised materials is even and medium.

Ingredients: - 500g Pillar Candle 68mm x 150mm  
- 3L Mixing Bowl (Water 18°C 2.5L Filled)  
- 700ml Stove Pot  
- 400ml (Water 18°C)  
Mold: - 1.5L Mixing Bowl  
Method: - High, 60cm Free-Hand Pour quick pour  
Steps: - Melt 500g of wax into stove pot on low heat  
- Once melted, slowly begin pouring wax into the water in a circle around the edge  
- Once semi-settled, using a blunt edge slowly begin to clear out the middle from settling wax  
- Slowly continue to do so until wax has begun to settle completely  
- Using the remaining wax, pour over the already circulated, layered exterior to create even more depth to the base  
- Once wax has been poured, allow to settle for 1 minute  
- Begin to add slowly the 400ml (Water 18°C) to the mixing bowl whilst slowly begin to shake the wax to aid in cooling



## 12) LAYERED INTERNAL CAVERN: 11) DOUBLE SUSPENSION:

- Origin: Paraffin Wax (saturated hydrocarbons)
- Natural/Industrial: Pillar Candle 68mm x 150mm made of Paraffin, saturated hydrocarbons as byproduct of distillation (heating or cooling) of Petroleum.
- Strength (Strong/Weak)/Density: Certain areas of the structure were strong, however the higher vertical, less structurally dense areas were considerably weaker.
- Thermal Behaviour: Cool once settled.
- Moisture (Moist/Dry): Significantly more moist due to amount of wax removed from the water mold
- Temperature (Hot/Cool): Water Temp 18°C
- Ratio (High/Low): Ratio of utilised materials is even and medium.

Ingredients: - 500g Pillar Candle 68mm x 150mm  
- 3L Mixing Bowl (Water 18°C 2.5L Filled)  
- 700ml Stove Pot  
- 400ml (Water 18°C)  
Mold: - 1.5L Mixing Bowl  
Method: - High, 60cm Free-Hand Pour Perpendicular Sides  
Steps: - Melt 500g of wax into stove pot on low heat  
- Once immediately melted at 40°C pour immediately into 2.250ml cups to even fill  
- Once filled, 2.5L into 3L mixing bowl with 18°C chilled water  
- Individually pour each cup at a 60cm height, free hand into the mixing bowl, each in a Perpendicular pattern  
- Shake the bowl continually, whilst slowly adding 500ml of 18°C water to settle the wax



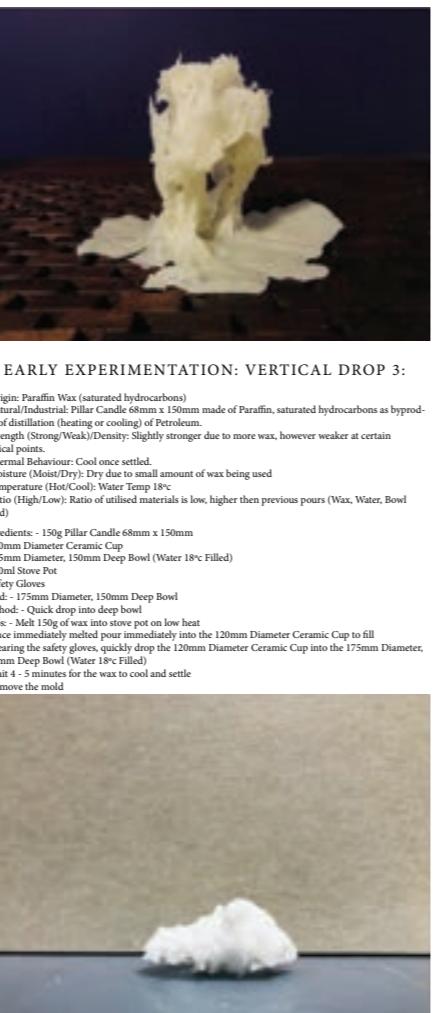
## 4) EARLY EXPERIMENTATION: VERTICAL DROP 4:

- Origin: Paraffin Wax (saturated hydrocarbons)
- Natural/Industrial: Pillar Candle 68mm x 150mm made of Paraffin, saturated hydrocarbons as byproduct of distillation (heating or cooling) of Petroleum.
- Strength (Strong/Weak)/Density: Stronger again due to more wax, more dense due to less vertical area.
- Thermal Behaviour: Cool once settled.
- Moisture (Moist/Dry): Gelatin mix retained significantly more water.
- Temperature (Hot/Cool): Water Temp 18°C
- Ratio (High/Low): Ratio of utilised materials is low, higher than previous pours (Wax, Water, Bowl Mold)



## 5) EARLY EXPERIMENTATION: GELATIN + WAX:

- Origin: Paraffin Wax (saturated hydrocarbons), Gelatin (beef origin).
- Natural/Industrial: Pillar Candle 68mm x 150mm made of Paraffin, saturated hydrocarbons as byproduct of distillation (heating or cooling) of Petroleum. Gelatin made of cow cartilage, skin and bones.
- Strength (Strong/Weak)/Density: Gelatin mix made the structure considerably weaker and less dense.
- Thermal Behaviour: Cool once settled.
- Moisture (Moist/Dry): Gelatin mix retained significantly more water.
- Temperature (Hot/Cool): Water Temp 18°C
- Ratio (High/Low): Ratio of utilised materials is higher, but low in quantity.



- Origin: Paraffin Wax (saturated hydrocarbons)
- Natural/Industrial: Pillar Candle 68mm x 150mm made of Paraffin, saturated hydrocarbons as byproduct of distillation (heating or cooling) of Petroleum.
- Strength (Strong/Weak)/Density: Strong due to quick, low pour resulting in a small, dense object
- Thermal Behaviour: Cool once settled.
- Moisture (Moist/Dry): Gelatin mix retained significantly more water.
- Temperature (Hot/Cool): Water Temp 18°C
- Ratio (High/Low): Ratio of utilised materials is low.

Ingredients: - 300g Pillar Candle 68mm x 150mm  
- 120mm Diameter Ceramic Cup  
- 3L Mixing Bowl (Water 18°C 2.5L Filled)  
- 700ml Stove Pot  
- Safety Gloves  
Mold: - 3L Mixing Bowl (Water 18°C 2.5L Filled)  
Method: - Quick drop into 3L Mixing Bowl (Water 18°C 2.5L Filled)  
Steps: - Melt 300g of wax into stove pot on low heat  
- Once immediately melted pour 42.5g A. Jelly (Gelatin) (0.5 pack Red) into the stove pot and mix with the spoon  
- Wait 4 - 5 minutes for the wax and gelatin to fill the 300ml Container  
- Wear the safety gloves, quickly drop the 200mm Diameter Ceramic Cup into the Quick drop into 3L Mixing Bowl (Water 18°C 2.5L Filled)  
- Wait 4 - 5 minutes for the wax to cool and settle  
- Remove the mold

Ingredients: - 150g Pillar Candle 68mm x 150mm  
- 120mm Diameter Ceramic Cup  
- 3L Mixing Bowl (Water 18°C 2.5L Filled)  
- 700ml Stove Pot  
- Safety Gloves  
Mold: - 3L Mixing Bowl (Water 18°C 2.5L Filled)  
Method: - Quick drop into 3L Mixing Bowl (Water 18°C 2.5L Filled)  
Steps: - Melt 150g of wax into stove pot on low heat  
- Once immediately melted pour 42.5g A. Jelly (Gelatin) (0.5 pack Red) into the stove pot and mix with the spoon  
- Wait 4 - 5 minutes for the wax and gelatin to fill the 150ml Container  
- Wear the safety gloves, quickly drop the 120mm Diameter Ceramic Cup into the 3L Mixing Bowl (Water 18°C 2.5L Filled)  
- Wait 4 - 5 minutes for the wax to cool and settle  
- Remove the mold

Ingredients: - 150g Pillar Candle 68mm x 150mm  
- 120mm Diameter Ceramic Cup  
- 3L Mixing Bowl (Water 18°C 2.5L Filled)  
- 700ml Stove Pot  
- Safety Gloves  
Mold: - 3L Mixing Bowl (Water 18°C 2.5L Filled)  
Method: - Quick drop into 3L Mixing Bowl (Water 18°C 2.5L Filled)  
Steps: - Melt 150g of wax into stove pot on low heat  
- Once immediately melted pour 42.5g A. Jelly (Gelatin) (0.5 pack Red) into the stove pot and mix with the spoon  
- Wait 4 - 5 minutes for the wax and gelatin to fill the 150ml Container  
- Wear the safety gloves, quickly drop the 120mm Diameter Ceramic Cup into the 3L Mixing Bowl (Water 18°C 2.5L Filled)  
- Wait 4 - 5 minutes for the wax to cool and settle  
- Remove the mold

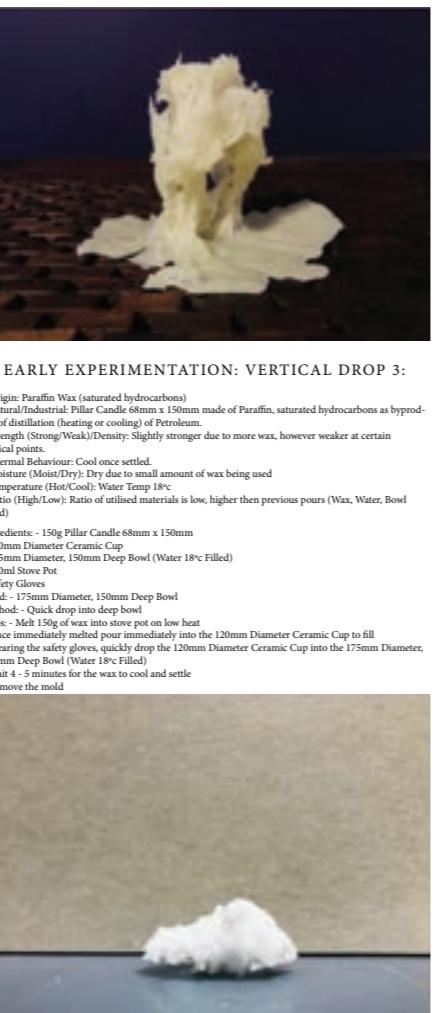
## 7) EARLY EXPERIMENTATION: SINGULAR POUR + GELATIN:

- Origin: Paraffin Wax (saturated hydrocarbons), Gelatin (beef origin).
- Natural/Industrial: Pillar Candle 68mm x 150mm made of Paraffin, saturated hydrocarbons as byproduct of distillation (heating or cooling) of Petroleum. Gelatin made of cow cartilage, skin and bones.
- Strength (Strong/Weak)/Density: Quick, low pour resulted in a dense structure, Gelatin contributed towards the strength of the structure in this case.
- Thermal Behaviour: Cool once settled.
- Moisture (Moist/Dry): Gelatin mix retained significantly more water.
- Temperature (Hot/Cool): Water Temp 18°C
- Ratio (High/Low): Ratio of utilised materials is higher, but low in quantity.



## 8) EARLY CONTROL: WAX PAVILLION:

- Origin: Paraffin Wax (saturated hydrocarbons)
- Natural/Industrial: Pillar Candle 68mm x 150mm made of Paraffin, saturated hydrocarbons as byproduct of distillation (heating or cooling) of Petroleum.
- Strength (Strong/Weak)/Density: Quick, low pour resulted in a dense structure, Gelatin contributed towards the strength of the structure in this case.
- Thermal Behaviour: Cool once settled.
- Moisture (Moist/Dry): Gelatin mix retained significantly more water.
- Temperature (Hot/Cool): Water Temp 18°C
- Ratio (High/Low): Ratio of utilised materials is even and medium.



- Origin: Paraffin Wax (saturated hydrocarbons)
- Natural/Industrial: House Hold Singular Candles 190mm made of Paraffin, saturated hydrocarbons as byproduct of distillation (heating or cooling) of Petroleum.
- Strength (Strong/Weak)/Density: Significantly weaker and more fragile due to spread of more wax over a larger surface area.
- Thermal Behaviour: Cool once settled.
- Moisture (Moist/Dry): Significantly more moist due to amount of wax removed from the water mold.
- Temperature (Hot/Cool): Water Temp 18°C
- Ratio (High/Low): Ratio of utilised materials is even and medium.

Ingredients: - 150g Pillar Candle 68mm x 150mm - 85g A. Jelly (Gelatin) (1 pack Red) - 3L Mixing Bowl (Water 18°C 2.5L Filled) - 200ml Stove Pot - 600ml Plastic Vertical Container - Mixing Spoon  
- 3L Mixing Bowl (Water 18°C 2.5L Filled)  
- 700ml Stove Pot  
- Safety Gloves  
Mold: - 3L Mixing Bowl (Water 18°C 2.5L Filled)  
Method: - Quick, low pour into 3L Mixing Bowl (Water 18°C 2.5L Filled)  
Steps: - Melt 150g of wax into stove pot on low heat  
- Once immediately melted pour the 150g of wax into the 600ml Plastic Vertical Container  
- Once melted pour 85g A. Jelly (Gelatin) (1 pack Red) into the 600ml Container, using the mixing spoon to mix together the wax and gelatin  
- After 1 minute pour the liquid mixture low, whilst mixing continuously into the 3L Mixing Bowl (Water 18°C 2.5L Filled)  
- Wait 4 - 5 minutes for the wax to cool and settle - Remove the mold

Ingredients: - 500g Pillar Candle 68mm x 150mm  
- 120mm Diameter Ceramic Cup  
- 3L Mixing Bowl (Water 18°C 2.5L Filled)  
- 700ml Stove Pot  
- Safety Gloves  
Mold: - 1.5L Mixing Bowl  
Method: - High, 60cm Free-Hand Pour Triangulation  
Steps: - Melt 500g of wax into stove pot on low heat  
- Once immediately melted pour at 40°C into 325ml cups to even fill  
- Fill 2.5L into 3L mixing bowl with 18°C chilled water  
- Individually pour each cup at a 60cm height, free hand into the mixing bowl, each in a triangulated pattern  
- Shake the bowl continually, whilst slowly adding 400ml of 18°C water to settle the wax

Ingredients: - 500g Pillar Candle 68mm x 150mm  
- 120mm Diameter Ceramic Cup  
- 3L Mixing Bowl (Water 18°C 2.5L Filled)  
- 700ml Stove Pot  
- Safety Gloves  
Mold: - 1.5L Mixing Bowl  
Method: - High, 60cm Free-Hand Pour Triangulation  
Steps: - Melt 500g of wax into stove pot on low heat  
- Once immediately melted pour at 40°C into 325ml cups to even fill  
- Fill 2.5L into 3L mixing bowl with 18°C chilled water  
- Individually pour each cup at a 60cm height, free hand into the mixing bowl, each in a triangulated pattern  
- Shake the bowl continually, whilst slowly adding 400ml of 18°C water to settle the wax



## 9) CONVERGING THREE POUR:

- Origin: Paraffin Wax (saturated hydrocarbons)
- Natural/Industrial: Pillar Candle 68mm x 150mm made of Paraffin, saturated hydrocarbons as byproduct of distillation (heating or cooling) of Petroleum.
- Strength (Strong/Weak)/Density: Significantly stronger as a result of spatial density.
- Thermal Behaviour: Cool once settled.
- Moisture (Moist/Dry): Significantly more moist due to amount of wax removed from the water mold.
- Temperature (Hot/Cool): Water Temp 18°C
- Ratio (High/Low): Ratio of utilised materials is even and medium.

Ingredients: - 500g Pillar Candle 68mm x 150mm  
- 120mm Diameter Ceramic Cup  
- 3L Mixing Bowl (Water 18°C 2.5L Filled)  
- 700ml Stove Pot  
- Safety Gloves  
Mold: - 1.5L Mixing Bowl  
Method: - High, 60cm Free-Hand Pour Triangulation  
Steps: - Melt 500g of wax into stove pot on low heat  
- Once immediately melted pour at 40°C into 325ml cups to even fill  
- Fill 2.5L into 3L mixing bowl with 18°C chilled water  
- Individually pour each cup at a 60cm height, free hand into the mixing bowl, each in a triangulated pattern  
- Shake the bowl continually, whilst slowly adding 400ml of 18°C water to settle the wax

- Origin: Paraffin Wax (saturated hydrocarbons)
- Natural/Industrial: House Hold Singular Candles 190mm made of Paraffin, saturated hydrocarbons as byproduct of distillation (heating or cooling) of Petroleum.
- Strength (Strong/Weak)/Density: Structure is considerably weaker than most previous experiments due cooled, however is slightly stronger than immediate room temperature gelatin pours.
- Thermal Behaviour: Cool, after being set from the fridge.
- Moisture (Moist/Dry): Gelatin mix retained significantly more water.
- Temperature (Hot/Cool): Water Temp 18°C
- Ratio (High/Low): Ratio of utilised materials is higher, in addition to the extra pack of gelatin and water.

Ingredients: - 500g Pillar Candle 68mm x 150mm  
- 120mm Diameter Ceramic Cup  
- 3L Mixing Bowl (Water 18°C 2.5L Filled)  
- 700ml Stove Pot  
- Safety Gloves  
Mold: - 1.5L Mixing Bowl  
Method: - High, 60cm Free-Hand Pour Triangulation  
Steps: - Melt 500g of wax into stove pot on low heat  
- Once immediately melted pour at 40°C into 325ml cups to even fill  
- Fill 2.5L into 3L mixing bowl with 18°C chilled water  
- Individually pour each cup at a 60cm height, free hand into the mixing bowl, each in a triangulated pattern  
- Shake the bowl continually, whilst slowly adding 400ml of 18°C water to settle the wax

- Origin: Paraffin Wax (saturated hydrocarbons)
- Natural/Industrial: House Hold Singular Candles 190mm made of Paraffin, saturated hydrocarbons as byproduct of distillation (heating or cooling) of Petroleum.
- Strength (Strong/Weak)/Density: Structure is considerably weaker than most previous experiments due cooled, however is slightly stronger than immediate room temperature gelatin pours.
- Thermal Behaviour: Cool, after being set from the fridge.
- Moisture (Moist/Dry): Gelatin mix retained significantly more water.
- Temperature (Hot/Cool): Water Temp 18°C
- Ratio (High/Low): Ratio of utilised materials is higher, in addition to the extra pack of gelatin and water.

Ingredients: - 500g Pillar Candle 68mm x 150mm  
- 120mm Diameter Ceramic Cup  
- 3L Mixing Bowl (Water 18°C 2.5L Filled)  
- 700ml Stove Pot  
- Safety Gloves  
Mold: - 1.5L Mixing Bowl  
Method: - High, 60cm Free-Hand Pour Triangulation  
Steps: - Melt 500g of wax into stove pot on low heat  
- Once immediately melted pour at 40°C into 325ml cups to even fill  
- Fill 2.5L into 3L mixing bowl with 18°C chilled



19) SINGULAR MOLDED SHALLOW POUR :

- Origin: Paraffin Wax (saturated hydrocarbons)
- Natural Industrial House Hold Singular Candles 190mm made of Paraffin, saturated hydrocarbons as byproduct of distillation (heating or cooling) of Petroleum.
- Strength (Strong/Weak)/Density: Complete opposite of previous pour, structure is one of the most dense and rigid of all experiments.
- Moisture (Moist/Dry): Significantly less moist due to small, dense surface area.
- Temperature (Hot/Cool): Water Temp 18°C
- Ratio (High/Low): Ratio of utilised materials is large, experimentation continues scaling up.

Ingredients: - 500g House Hold Singular Candles 190mm - 4L Crumpled, Molded Aluminium Oven Tray (Water 18°C) - 700ml Stove Pot - 300ml Water 18°C

Mold: - 4L Crumpled, Molded Aluminium Oven Tray (Water 18°C)

Method: - High, 60cm Singular Free Hand Pour

Steps: - Melt 500g of wax into stove pot on low heat

- Once melted, allow for 1 minute to pass with wax still burning
- Begin the high, 60cm singular free hand pour into the Aluminium Oven Tray
- Allow the melted wax to settle for 2 minutes
- Once semi-settled, begin to slowly add the 300ml (Water 18°C) to the top of the tray whilst shaking
- Allow to completely settle before removing the wax from the mold.

20) SINGULAR MOLDED SHALLOW POUR + TEMP. CHANGE:

- Origin: Paraffin Wax (saturated hydrocarbons)
- Natural Industrial House Hold Singular Candles 190mm made of Paraffin, saturated hydrocarbons as byproduct of distillation (heating or cooling) of Petroleum.
- Strength (Strong/Weak)/Density: Weakest structure composed, due to hot water residing within the mold. Structure began to fall apart with the slightest touch.
- Moisture (Moist/Dry): One of the most water retentive experiment created.
- Temperature (Hot/Cool): Water Temp 28°C, detrimental effects towards the structural integrity of the experiment, showing negative potential for future experiments.
- Ratio (High/Low): Ratio of utilised materials includes the most amount of wax utilised with large range in combined water temperatures.

Ingredients: - 700g House Hold Singular Candles 190mm - 4L Crumpled, Molded Aluminium Oven Tray (Water 18°C) - 700ml Stove Pot - 300ml Water 18°C

Mold: - 4L Crumpled, Molded Aluminium Oven Tray (Water 28°C)

Method: - High, 60cm Singular Free Hand Pour

Steps: - Melt 700g of wax into stove pot on low heat

- Once melted, allow for 1 minute to pass with wax still burning
- Begin the high, 60cm singular free hand pour into the Aluminium Oven Tray
- Allow the melted wax to settle for 2 minutes
- Once semi-settled, begin to slowly add the 300ml (Water 18°C) to the top of the tray whilst shaking
- Allow to completely settle before removing the wax from the mold.

21) VERTICAL LARGE SCALE :

Origin: Paraffin Wax (saturated hydrocarbons)

Natural Industrial House Hold Singular Candles 190mm made of Paraffin, saturated hydrocarbons as byproduct of distillation (heating or cooling) of Petroleum.

Strength (Strong/Weak)/Density: Structure of the pour resulted in the last full uncontrolled pour, which showed strength and density.

Moisture (Moist/Dry): Structure is moist due to compartments and sections of horizontal space within the interior.

Temperature (Hot/Cool): Water Temp 18°C

Ratio (High/Low): The most amount of wax utilised within a significantly larger mold, resulting in a bigger structure overall.

Ingredients: - 1kg Pillar Candle 68mm x 150mm (Unscented) - 25L Industrial Bucket Mold (Water 18°C) - Plastic Internal Layering (Bag) - 2L Stove Pot - 1L (Water 18°C) - Plastic 1L Container - 25L Industrial Bucket Mold (Water 18°C)

Mold: - 25L Industrial Bucket Mold (Water 18°C)

Method: - High, 1.5m Singular Free Hand Pour

Steps: - Melt 1kg of wax into stove pot on low heat

- Once melted, allow for 1 minute to pass with wax still burning
- Line bucket with plastic internal layer (bag) and move outside to continue experiment
- From a 1.5m, free hand pour wax directly into 25L industrial bucket mold
- Once semi-settled, begin to slowly add the 1L (Water 18°C) to the top of the bucket with wax poured, slowly shaking the bucket whilst doing so
- Allow to completely settle before removing the wax from the mold.

PRE. FINAL

The pre. final design is the natural progression from the initial armature control experiments, whilst maintaining both the vertical and horizontal architectural components evident within them, including the necessity for functional internal space as well as entrance and exit potentials.

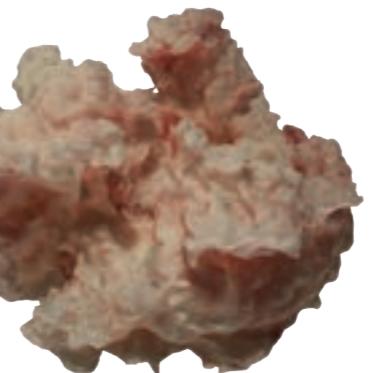
The utilisation of Gelatin combined with the wax element resulted in the shaping of vertical pillars as well as securing the rigidity and structural integrity of these pillars. The addition of colour adds a further impact upon the shading and capability to judge depth within the structure.

The complex interior is further aided by the exterior space available, being the structural formations of over-head shelters. This further increases the character functionality of the architecture.

The combination of issues arising includes the necessity to have an enclosed space. Where the capability for groups or individuals using the space are intimately connected with the architecture as well as protected completely from exterior influence. The secondary issue includes the struggle for accessibility and potential dangers from climbing the structure.

One further issue that is evident within the structure is the lack of natural organic flow throughout the architecture. The chaotic swirls and spires that contribute towards overall form represent on the surface, a lack of architectural control through the creation of the design, resulting in the inability to secure the complete vision for the interior design. The contextual placement of the structure within a park setting, creates an intriguing invitation into the unknown, however contains the lack of full architectural intent necessary to represent the final controlled creation.

Overall the architecture contains elements of strength and weakness, whilst allowing for capability to utilise the same control aspects, just shifting certain methods of creation in order to create controlled architecture that eliminates the negative aspects of design will allow for more successful architecture.



FINAL

The final design shows a distinct reference back to 4th armature creation, which includes significant vertical emphasis. The creation of pillars with additional over-head protection, allows for full internal functionality through controlling where, how large and how many pillar will be created. This is the main control aspect that is changed when creating the final.

The creation of 4 distinct pillars allowed for the planned inclusion of 3 entrance and exit points, rather than the pre. final's specified 2 points. The benefit of this inclusion allows for more manipulation of interior functionality and how individuals interact with more spatial opportunities than previously presented.

The limitation factor of specified interior function is also removed, where no struggle to navigate the space is present as the horizontal plane remains constant and flat, allowing for primary focus to be upon the spatial nature of the architecture, rather than complexity of the structural form itself, that lacks architectural intent.

The design simplicity shows a clear representation of how the space works. The initial pre. final design displays a lack of architectural clarity with contradictory design elements being evident. However the abundance of natural flow and meaning within the architecture allow for understanding of how to access the space, feeling and immersion within the structural interior as well as contains all necessary elements that allow for clear movement throughout the spatial realm.



The key factor of accessibility therefore becomes a main factor, whilst the architectural form itself manifests and displays the intent behind its creation. It displays interactive internal space that's functional, containing multiple entrances and exits with over-head protection. The main exit forms a larger 'emergence' into the exterior world, illustrating the feeling of being comfortably occupied within the architecture of the space. The successful of the architecture heavily draws upon its own form and capability to interact with individuals physically and metaphorically.

22) FINAL ARMATURE 1 :

- Origin: Paraffin Wax (saturated hydrocarbons)

- Natural Industrial House Hold Singular Candles 190mm made of Paraffin, saturated hydrocarbons as byproduct of distillation (heating or cooling) of Petroleum.

Strength (Strong/Weak)/Density: Structure has a controlled strength and density. Through this control the creation of architectural traits can occur.

- Moisture (Moist/Dry): Flat, horizontal nature of the structure with small interior sections results in significant water and moisture content.

- Temperature (Hot/Cool): Water Temp 18°C

- Ratio (High/Low): 3 utilised candles specifically with a larger mold then previous experiment shows elements of the control being manipulated, where the ratio differences continue to be high.

Ingredients: - 3 x Pillar Candle 68mm x 150mm (Unscented) - 50L Industrial Metal Bucket Mold (Filled, Water 18°C) - 2L Stove Pot - 1L (Water 18°C) - Plastic 1L Container (Water 18°C) - 3 x 2L Plastic Bowls

Mold: - 50L Industrial Metal Bucket Mold (Filled, Water 18°C)

Method: - Armature Funnel Pour, Three Locations with Extended Nozzle into 50L Industrial Metal Bucket Mold (Water 18°C)

Steps: - Melt 3 x Pillar Candle 68mm x 150mm (Unscented) of wax into stove pot on low heat - Once melted, allow for 1 minute to pass with wax still burning - Fill 50L Industrial Metal Bucket Mold with 18°C Water and place into Armature. Once wax is melted, pour evenly into 3 of the 2L Plastic Bowls - Pour one 2L Plastic Bowl into each of the funnels - Begin to slowly add the water from the 1L Container (Water 18°C) into the bucket to help wax settle - Allow wax to completely settle before removing the mold

23) FINAL ARMATURE 2, LESS WATER, MORE WAX:

- Origin: Paraffin Wax (saturated hydrocarbons)

- Natural Industrial House Hold Singular Candles 190mm made of Paraffin, saturated hydrocarbons as byproduct of distillation (heating or cooling) of Petroleum.

Strength (Strong/Weak)/Density: The strongest control experiment created through the utilisation of more wax. The horizontal, dense plane secures structural integrity.

- Moisture (Moist/Dry): Flat, horizontal nature of the structure with small interior sections results in significant water and moisture content.

- Temperature (Hot/Cool): Water Temp 18°C

- Ratio (High/Low): Less candles, however through different methodology resulted in the controlled development of vertical pillars with the range of materials being high.

Ingredients: - 5 x Pillar Candle 68mm x 150mm (Unscented) - 50L Industrial Metal Bucket Mold (Filled, Water 18°C) - 2L Stove Pot - 1L (Water 18°C) - Plastic 1L Container (Water 18°C) - 3 x 2L Plastic Bowls

Mold: - 50L Industrial Metal Bucket Mold (2L Filled, Water 18°C)

Method: - Armature Funnel Pour, Three Locations with Extended Nozzle into 50L Industrial Metal Bucket Mold (Water 18°C)

Steps: - Melt 5 x Pillar Candle 68mm x 150mm (Unscented) of wax into stove pot on low heat - Once melted, allow for 1 minute to pass with wax still burning - Fill 50L Industrial Metal Bucket Mold with 18°C Water and place into Armature. Once wax is melted, pour evenly into 3 of the 2L Plastic Bowls - Pour one 2L Plastic Bowl into each of the funnels - Begin to slowly add the water from the 1L Container (Water 18°C) into the bucket to help wax settle - Allow wax to completely settle before removing the mold

24) FINAL ARMATURE 3, 10L FILLED :

- Origin: Paraffin Wax (saturated hydrocarbons)

- Natural Industrial House Hold Singular Candles 190mm made of Paraffin, saturated hydrocarbons as byproduct of distillation (heating or cooling) of Petroleum.

Strength (Strong/Weak)/Density: Slightly weaker structure than previous, however the vertical structure displays architectural and interior spatial potential.

- Moisture (Moist/Dry): Flat, horizontal nature of the structure with small interior sections results in significant water and moisture content.

- Temperature (Hot/Cool): Water Temp 18°C

- Ratio (High/Low): Less candles, however through different methodology resulted in the controlled development of vertical pillars with the range of materials being high.

Ingredients: - 3 x Pillar Candle 68mm x 150mm (Unscented) - 50L Industrial Metal Bucket Mold (Filled, Water 18°C) - 2L Stove Pot - 1L (Water 18°C) - Plastic 1L Container (Water 18°C) - 3 x 2L Plastic Bowls

Mold: - 50L Industrial Metal Bucket Mold (10L Filled, Water 18°C)

Method: - Armature Funnel Pour, Three Locations with Extended Nozzle into 50L Industrial Metal Bucket Mold (Water 18°C)

Steps: - Melt 3 x Pillar Candle 68mm x 150mm (Unscented) of wax into stove pot on low heat - Once melted, allow for 1 minute to pass with wax still burning - Fill 50L Industrial Metal Bucket Mold with 18°C Water and place into Armature. Once wax is melted, pour evenly into 3 of the 2L Plastic Bowls - Pour one 2L Plastic Bowl into each of the funnels - Begin to slowly add the water from the 1L Container (Water 18°C) into the bucket to help wax settle - Allow wax to completely settle before removing the mold

22) FINAL ARMATURE 4 MOLD CHANGE :

- The 'Final Armature 4 Mold Change' experiment represents the final capability to manipulate methods of creation whilst maintaining the same armature control throughout. The armature has allowed for the ability to pour from multiple different locations, angling specifically to create certain structures which allow for architectural space. This influence, in effect, contributed significantly to the creation of the final design. The benefits of the architecture allow for a high placed roof, dynamic and functional interior space as well as 3 large scale pillars which are both structurally integral as load bearing and influence the architectural form completely. The structure further retains its integral textural identity, being the rugged, free form layers of wax that emerge from all angles of the structure. The importance of this model shows the capability to further extend the potential to create more pillars, which in turn allows for the ability to create new free-formed space within the structure.

- The progression of the model from previous experiments was only capable through understanding of the necessary controls, which occurred through understanding of how wax forms. The previous armature experiments required specific changes in the mold and tweaking of the pour, where it became necessary to pour slow. How much wax and how little water was necessary, was a further byproduct of earlier experimentation. The structure however, within this form, only shows the basic preliminary aspects of architectural potential. The interior space is crowded, being enveloped by 3 consuming pillars with a large ceiling height that drops dramatically through one of the entrances. Aspects like these had to be considered when controlling the development of the final model. The pre-final model represented armature development closer to 1, 2 and 3, whilst the final model took the necessary aspects of this model and built upon them.

Ingredients:

- 3 x Pillar Candle 68mm x 150mm (Unscented)

- 25L Industrial Plastic Vertical Bucket Mold (5L Filled, Water 8°C)

- 2L Stove Pot

- 1L (Water 8°C)

- Plastic 1L Container (Water 8°C)

- 3 x 2L Plastic Bowls

Mold:

- 25L Industrial Plastic Vertical Bucket Mold (5L Filled, Water 8°C)

Method:

- Armature Funnel Pour, Three Locations with Extended Nozzle into 50L Industrial Metal Bucket Mold (Water 18°C)

Steps:

- Melt 3 x Pillar Candle 68mm x 150mm (Unscented) of wax into stove pot on low heat

- Once melted, allow for 1 minute to pass with wax still burning

- Fill 25L Industrial Plastic Vertical Bucket Mold with 5L, 8°C water and place into Armature

- Once wax is melted, pour evenly into 3 of the 2L Plastic Bowls

- Pour one 3 wax filled 2L Plastic Bowls into each of the funnels

- Begin to slowly add the water from the Plastic 1L Container (Water 8°C) into the bucket to help wax settle

- Allow wax to completely settle before removing the mold