

appendix **A** Construction of sites

5.3.1.1. CONSTRUCTION OF THE TESTING FRAME

The testing frame was constructed from two unused pin-boards (referred to as Board A and Board B) See Figure 1: Pin board before alteration. Initially the shape and specific requirements of the testing frame were derived from the characteristics and opportunities offered by rope and rope-like materials.

Board A acts as the backdrop to the testing frame. The OSB was cleaned, sanded by hand and finished with white PVA paint. Holes were drilled into the backboard in order to allow for the fixing of rope and hardware. The 8mm diameter holes are set 200mm (centre to centre) and run on a horizontal and vertical grid. This allows for the shaping of three dimensional textile space

Board B acts as the main frame onto which hardware and rope can be fixed. The OSB board was removed from the existing frame, the frame was cleaned and holes were drilled into the inner part of the frame. The 8mm diameter holes were spaced 100mm centre to centre. Holes 1-19 were placed at the top and bottom of the horizontal frames and holes A-J were placed vertically down the sides of the frame. The numbering system was incorporated for documentation purposes. Finally Board B was painted white.

To complete the testing frame Board A and Board B were fixed together. The feet of the frames were bolted together using M6 bolts and two pieces of 32x32x600 mm timber batons. The tops of the frames were fixed by spanning two pieces of 2.6x25x25x450mm mild steel equal angles between the two frames and fixing them with self-tapping screws. These materials were left unfinished and unpainted.

The completed testing frame is 2020mm wide, 1670mm high and 435mm deep. See Figure 2: Completed testing frame in use (right). The completed testing frame includes the addition of M6 eye bolts as fixing points. For physical parameters of the testing frame see section 5.3.1. on poster 10 (page 54+55).



Figure 1: Pin board before alteration

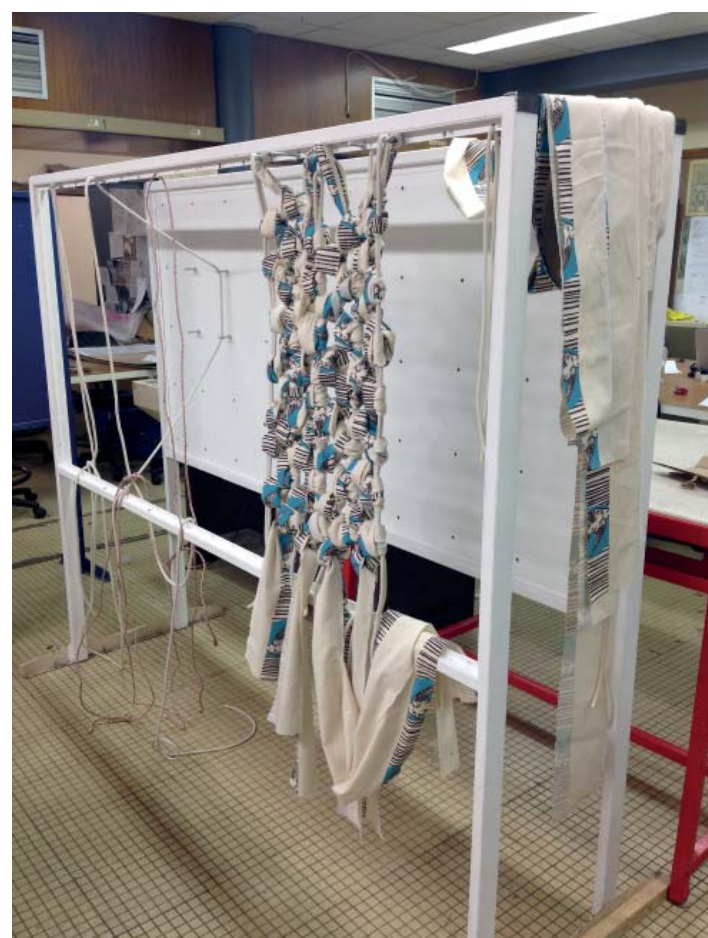


Figure 2: Completed testing frame in use

5.3.2.1.

CONSTRUCTION OF THE TESTING BOX

Where the testing frame acts as quite a rigid test site, the testing box allows for more fluidity and malleability of the textile. This is due to the increased amount of fixing points and the fact that the grid is aligned. Not only does the grid allow for the fixing of eye bolts but the aligned holes also mean that threaded rods can pass through both of the side panels simultaneously.

For physical parameters of the testing box see section 5.3.2. on poster 10 (page 54+55).

The testing box was constructed using 16 mm MDF. The form of the box was designed to be 'neutral'. Therefore the dimensions of the box was not based on the testing site for intervention, but was built to be an empty rectangle. This was done to ensure maximum flexibility in terms of spatial response.

Initially the dimensions of the bottom panel of the box was based on the dimensions of an A2 sheet of paper (420mm x 594mm). It was altered to 400mm x 580mm to use the available MDF sheet in the most efficient way. The side panels simply matched these parameters with a height proportionally to the size of the bottom panel. Therefore the side panels were designed to be 300mm high.

The three side panels and bottom panel were drawn out onto the available MDF sheet with pencil. The panels were cut whereafter the sides of the panels were sanded lightly to remove any rough edges. The panels were then glued to each other. Wood screws were used to secure the panels to each other. Initially it was determined that the box would need to be strong enough to resist pulling, tugging and tension from ropes and strings. Later however it became clear that the nature of the type of testing to take place within the box would change. See Table 5.2. Testing box, observation and response on poster 10 (page 54+55)

After the wood dried a grid was marked out onto the exterior of the box. This grid was then used to drill 6mm holes into the box. After drilling the box was sanded inside and outside to get rid of any pencil lines and excess glue.

M6 eye bolts and later 6mm threaded rod was placed through the holes within the box.

See Figure 3: Testing box in use (right).

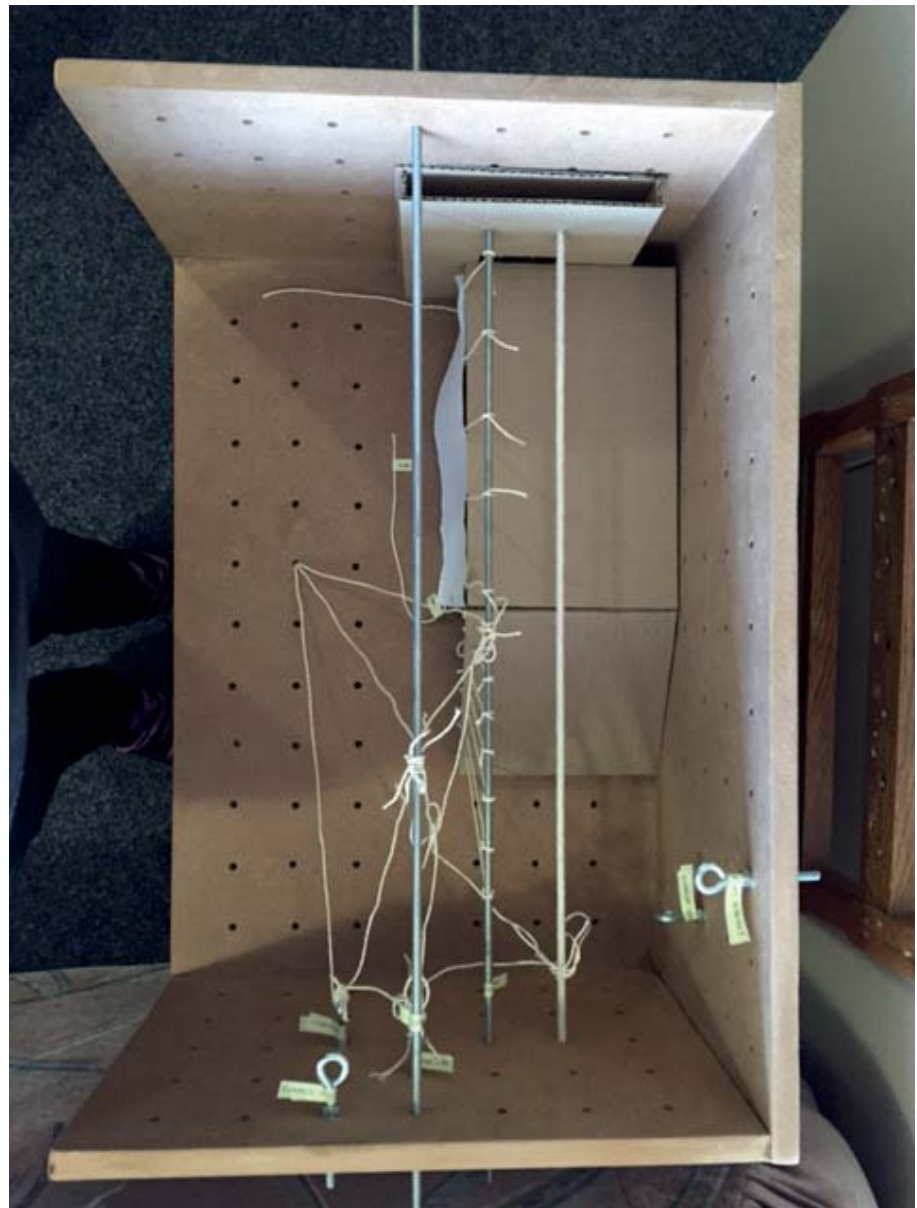






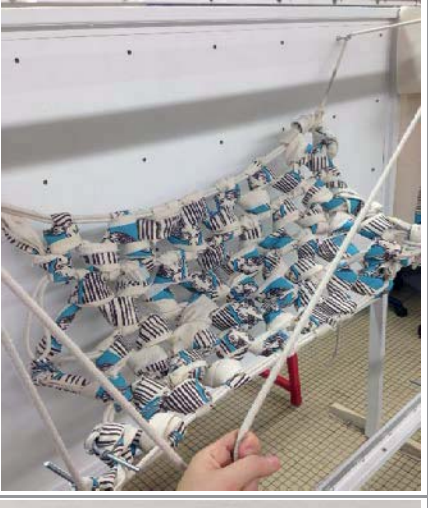







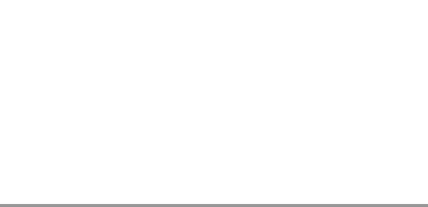

Figure 3: Testing box in use



appendix B

Data collection and synthesis

TEST NR	STEP	DESCRIPTION	PHOTO
1	1 2 3 4 5 6 7	<p>1 Fix three ropes to upper frame (loop through eye bolt) One primary cord centred (10) Two filler cords (A and B) either side of the primary cord (9,11)</p> <p>2 Select FC-A and make an overhand loop knot towards the PC Place PC through the eye of loop FC-A Pull the running end of FC-A to dress the knot</p> <p>3 Repeat step 2 using FC-B Push knot from FC-B up against FC-A to ensure a snug fit</p> <p>4 Hang one AC over left V and one AC over right V Ensure that ends meet</p> <p>5 Select FC-A and make an overhand loop knot towards the AC Place AC through the eye of loop FC-A Dress knot</p> <p>6 Repeat step 5 using FC-B</p> <p>7 Repeat steps 2-5 until end of rope is reached</p>	
2	1 2 3 4 5 6	<p>1 Fix five PC (14,16) to the upper frame Fix four FC (13,15,15,17) to the upper frame</p> <p>2 Select the first FC and make a simple noose not toward the second PC (angling the FC-A toward the right to reach the second PC). Place running end of first PC through the eye of loop FC-A. Pull the running end of FC-A to dress the knot</p> <p>3 Repeat step 2 using the second FC and the second PC. Push knot from FC-B up against FC-A to ensure a snug fit</p> <p>4 Select the FC-C and make a simple noose not toward the fourth PC (angling the FC-A toward the left to reach the fourth PC). Place running end of first PC through the eye of loop FC-C. Pull the running end of FC-C to dress the knot</p> <p>5 Repeat step 4 using the fourth FC and the fourth PC. Push knot from FC-D up against FC-C to ensure a snug fit</p> <p>6 Repeat steps 2-4, angling each of the FC to the PC opposite the existing knot criss crossing down the PC one row at a time. Repeat the steps until the remaining PC is covered completely with FC.</p>	
3	1 2 3 4 5 6	<p>1 Fix two rope loops through four eye bolts so that each of the four running ends hang towards the floor</p> <p>2 Insert four evenly spaced holes in two rectangular sections of board material</p> <p>3 Tie an overhand knot about 400mm down the front two rope ends and feed the rope ends through the two front holes of the board. Tie two more overhand knots below the board to secure the board between the two sets of knots</p> <p>4 Repeat this step using the two back ropes</p> <p>5 There should now be two boards secured horizontally between hanging rope ends</p> <p>6 When pulling on the front top rope loop (Between the two widely spaced eye-bolts) the horizontal boards should tip to a diagonal position</p>	
4	1 2 3 4 5 6 7	<p>1 Fix two rope loops through four eye bolts so that each of the four running ends hang towards the floor</p> <p>2 Insert four evenly spaced holes in two rectangular sections of board material and feed the ends of the rope through the board material</p> <p>3 Add an extra loose piece of rope through each of the four holes</p> <p>4 Use the loose piece of rope to tie the first half of the Double Fisherman's Knot above the board and the second half of the knot below the board. Slide the knots toward each other to secure the board snugly between the two knots</p> <p>5 Feed each of the four main rope ends through the four holes in the second board</p> <p>6 Add a third loose piece of additional rope through the bottom tier board</p> <p>7 Repeat step 4</p>	

TEST NR	STEP	DESCRIPTION	PHOTO
5	1	Fix two rope loops through four eye bolts so that each of the four running ends hang towards the floor	
	2	Insert four evenly spaced holes in two rectangular sections of board material	
	3	Push running ends of the two front ropes through the front holes in the board material, stick each of the two running ends through a washer.	
	4	Loop each of the two running ends in order to stick them back through the washer and through the holes in the board material	
	5	Take the two running ends that are now at the top of the board material and tie a fisherman's stopper knot to hold them in place	
	6	Place two individual loose pieces of rope through each of the loops that are at the bottom of the board product	
	7	Pull the ropes toward the board to create a snug fit	
6	1	Fix two rope loops through four eye bolts so that each of the four running ends hang towards the floor	
	2	Insert four evenly spaced holes in two rectangular sections of board material	
	3	Place the two front ropes side by side through a washer	
	4	Split the two ropes and place through the two front holes in the board material	
	5	Once ropes are through the holes bring them together again and place through a large washer (repeat step 3 and 4).	
	6	Repeat steps 3,4 and 5.	
7	1	Fix two rope loops through four eye bolts so that each of the four running ends hang towards the floor	
	2	One at a time, fix the four loose loop ends from Sample 1 to each of the free running ends of the rope by means of an overhand loop	
	3	Ensure that all loose rope ends are secured	
	4	Dress the knots	
	5	There should now be a textile secured horizontally between hanging rope ends where the board product was placed initially	
	6	When pulling on the front top rope loop (Between the two widely spaced eye-bolts) the horizontal textile sample should tip to diagonally	
8	1	Fix two rope loops through four eye bolts so that each of the four running ends hang towards the floor	
	2	One at a time, fix the four loose loop ends from Sample 2 to each of the free running ends of the rope by means of an overhand loop	
	3	Ensure that all loose rope ends are secured	
	4	Dress the knots	
	5	There should now be a textile secured horizontally between hanging rope ends where the board product was placed initially	
	6	When pulling on the front top rope loop (Between the two widely spaced eye-bolts) the horizontal textile sample should tip to diagonally	
9	1	Fix primary cord to main frame with eye bolt and carabiner by means of larks head knot.	
	2	Suspend dowel and fix with double stranded clove hitch knot	
	3	Separated two strands from each other and tie two separate clove hitch knots See poster for more images	

TEST NR	STEP	DESCRIPTION	PHOTO
10	1	Fix primary cord to main frame with eye bolt and carabiner by means of larks head knot.	
	2	Suspend dowel and fix with double stranded clove hitch knot	
	3	Separated two strands from each other and tie two separate clove hitch knots	
	4	Add two additional anchor points (eye bolt with carabiner) onto the back board of the main frame	
	5	Position dowel securely by fixing the additional ropes to the dowel by means of clove hitch knots See poster for more images	
11	1	Use rope fixing structure as created in test 10	
	2	Remove knot at the end of the dowel and shift textile sample 2 over the end onto the dowel (Use the filler cord as fixing point)	
	3	Add a secondary dowel in the bottom end of the sample, in the loops of the filler cord	
12	1	Use rope fixing structure as created in test 10	
	2	Remove knot at the end of the dowel and shift textile sample 2 over the end onto the dowel (Use the structural cord as fixing point)	
	3	Add a secondary dowel in the bottom end of the sample, in the loops of the filler cord	
13	1	Fix five Primary Cord's to the upper frame	
	2	Fix three Filler Cords consecutively inbetween each of the PC's	
	3	Select FC-A and make a Simple noose knot towards the first PC. Place the running end of the second PC through the eye of loop FC-A. Pull the running end of FC-A to dress the knot	
	4	Repeat step 3 using FC-B and the second PC. Ensure that FC-B is ontop of FC-A in the diagonal cross formed by the two filler cords.	
	5	Repeat steps 3 and 4 with the remaining FC's and PC's. Ensure that the FC joining from the left always crosses over the FC joining from the right.	
	6	Repeat steps 3-5 until end of rope is reached	
14	1	Fix sample one to testing frame as when constructed	
	2	Firmly secure bottom end of the sample to the testing frame using structural cords	
	3	Pull on left and right hand sides of the sample holding on to the structural cord	
15	1	Fix sample one to testing frame as when constructed	
	2	Firmly secure bottom end of the sample to the testing frame using structural cords	
	3	Grip structural cord in the middle of the sample and pull towards self	

TEST NR	STEP	DESCRIPTION	PHOTO
16		The process is similar to the construction process followed to construct sample 13. Here the spacing between filler cord and structural cord is double.	
	1	Fix three Primary Cord's to the upper frame	
	2	Fix three Filler Cords consecutively inbetween each of the PC's	
	3	Select FC-A and make a Simple noose knot towards the first PC. Place the running end of the second PC through the eye of loop FC-A. Pull the running end of FC-A to dress the knot	
	4	Repeat step 3 using FC-B and the second PC. Ensure that FC-B is ontop of FC-A in the diagonal cross formed by the two filler cords.	
	5	Repeat steps 3 and 4 with the remaining FC's and PC's. Ensure that the FC joining from the left always crosses over the FC joining from the right.	
6	Repeat steps 3-5 until end of rope is reached		
17	1	Firmly secure bottom end of sample 16 to the testing frame using structural cords	
	2	Pull on left and right hand sides of the sample holding on to the structural cord	
18	1	Firmly secure bottom end of the sample to the testing frame using structural cords	
	2	Grip structural cord in the middle of the sample and pull towards self	
19	1	Fix sample one to testing frame as when constructed	
	2	Firmly secure bottom end of the sample to the testing frame using structural cords	
	3	Take hold of all four corners of textile sample two and pull away from each anchor point	
20	1	Fix five Primary Cords to carabiner within upper frame. Fix to carabiner using Cow hitch knot.	
	2	Fix five Filler Cords to side of frame. Select the uppermost FC and make a Simple noose knot towards the first PC. Feed the PC through the eye of the loop of the FC. Pull the running end of FC to dress the knot	
	3	Repeat step 2 with the same FC and remaining PC's	
	4	Repeat step 2 and 3 with the remaining FC's and PC's	
	5	Dress the knots	
21	1	Firmly secure bottom end of sample 16 to the testing frame using structural cords	
	2	Pull on left and right hand sides of the sample holding on to the structural cord	
22	1	Firmly secure bottom end of sample 16 to the testing frame using structural cords	
	2	Grip structural cord in the middle of the sample and pull towards self	

Term	Key
------	-----

Primary cord	Pr
Secondary cord	Se
Structural cord	SC
Filler cord	FC
Resultant V	V
Cord type set	CTS
Sampe unit	U
Anchor point	AP
Facing side	FS
Backing side	BS

TERMS:

CORD TYPE SET: Any collection of cords within one sample that are of the same material

PRIMARY CORD: The main carrying cord in any cord type set

SECONDARY CORD: The cord secondary to the primary cord in any cord type set

STRUCTURAL CORD: Any cords forming the structure or carrying the weight of any filler cord, cord type set.

FILLER CORD: Any cords forming the infill or body of a sample and is fixed by means of knotting to any structural cord, cord type set. The Filler cord does not carry the weight of the sample unit

ANCHOR POINT: Any point or fixing place to which a textile can be fixed using various configurations of rigging hardware

FACING SIDE: Facing side is the side of the sample unit that you see while knotting.

BACKING SIDE: Backing side is the side of the sample unit that faces away from you while knotting.

appendix C C Raw data

→ OVERHAND KNOT (FIXING METHOD).
FIRST CYCLE OF 'SANGSHADEI'
LIGHT CONTROL OF THICK TEXTILE.

* OBSERVATIONS. 25.05.

- BOARD PRODUCT NEEDS TO BE
SECURED AT ALL FOUR ENDS OF
THE ROPE ENDS.

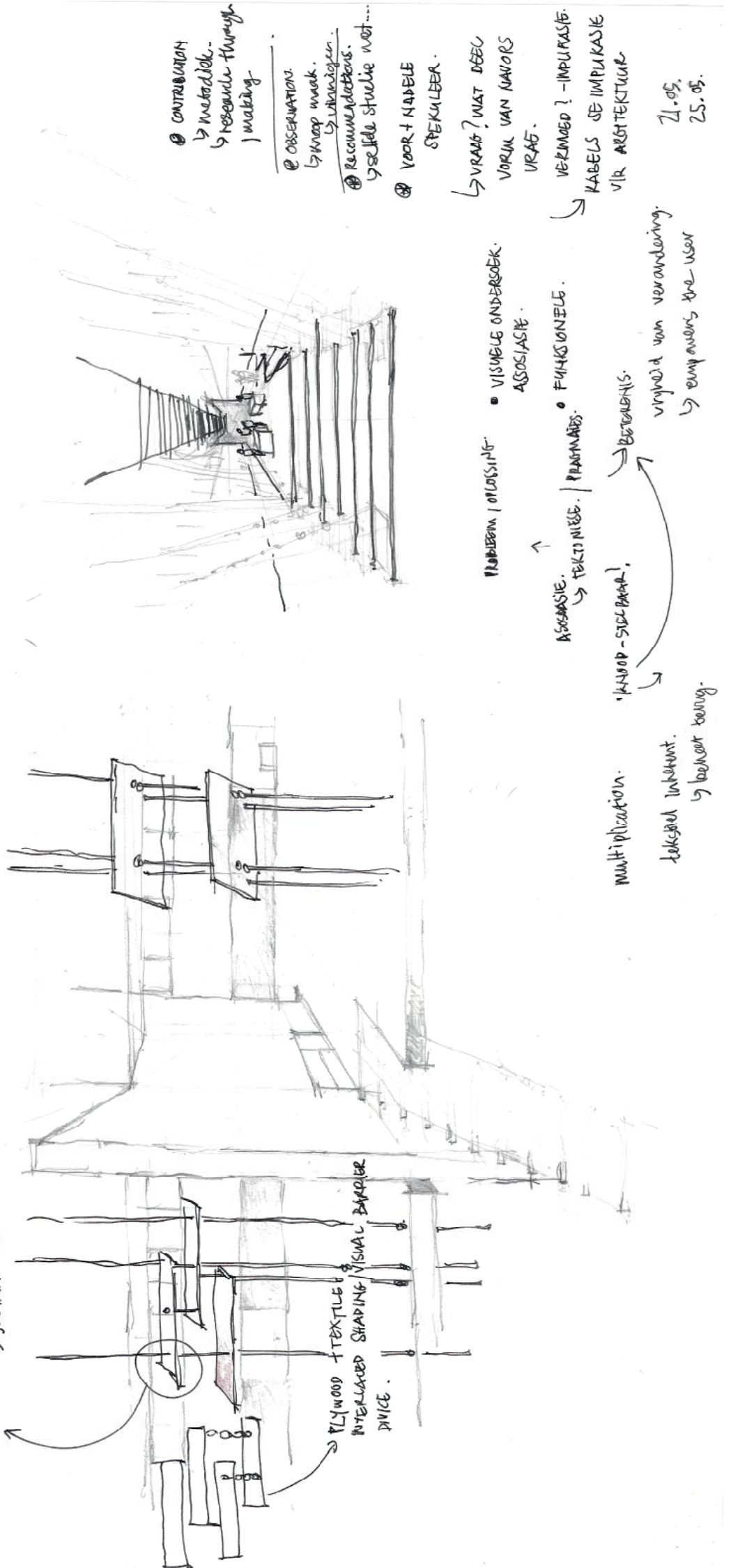
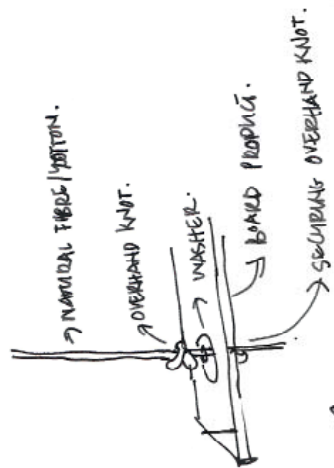
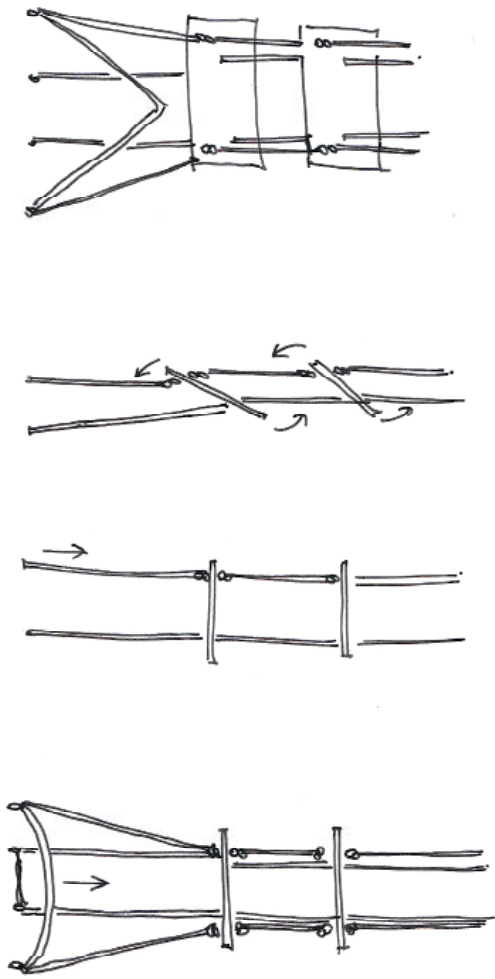
BOARD PRODUCT / USE OF STILL VERY
CONVENTIONAL AND "HARD"

↳ CAN THIS BE REPLACED WITH
TEXTILE?

- KNOTS, HARD TO POSITION
AT ACCURATE HEIGHTS. (TYPES?).

BOARD PRODUCT MIGHT BE REPLACED
WITH TEXTILE FOAMING

↳ WHAT DOES CONNECTION BETWEEN
STRUCTURE + BOARD LOOK LIKE?



CONTRIBUTION
↳ methodiek...
↳ research through
making

OBSERVATIONS.
↳ knoop maak.
↳ onderzoeken.
↳ Recommendations.
↳ selfde studie met...

VOOR + NADELE
SPEKULEER.

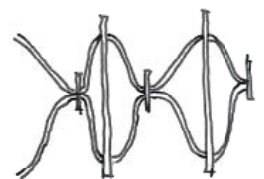
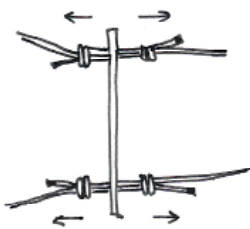
↳ VRAAG? WAT DEEG
VORUM VAN NAVORS
VRAAG.

VERKNOED? - IMPLIKASIE.
KABELS SE IMPLIKASIE
VIR ARKITEKTUUR

21.05.
25.05.

②

CHANGED KNOT TO DOUBLE FISHERMANS KNOT.



③ OBSERVATIONS:

- IN ORDER TO PUSH KNOTS TOGETHER TO SECURE BOARD PRODUCT, USE DOUBLE FISHERMAN KNOTS, THIS IS SUCCESSFUL FOR THE FIRST LAYER, BUT DOESN'T WORK IF USING THE SAME ROPE FOR THE SECOND LAYER.
- THIS, SECOND LAYER NEEDS 3RD PIECE OF LOOSE ROPE.
- RUNNING END OF ADDITIONAL ROPE STICKS OUT PAST THE KNOT BUTTEND.
- WHAT WILL THE EFFECT ON THE KNOTS BE IF PRESSURE IS APPLIED TO THE BOARD?
- BOARD PRODUCT CAN BE ACCURATELY POSITIONED ON THE ROPE.
- WHEN ADDING THIRD ROPE, KNOTS DO NOT SLIDE CORRECTLY. ONLY TOP LAYER FUNCTIONS CORRECTLY.



→ LOOPING ROPE A THROUGH ROPE B WITH WASHER A BOTTOM STOPPER AND FISHERMAN'S KNOT AS TOP STOPPER.

* OBSERVATIONS:

- KNOT PUSHES SECURELY AGAINST THE TOP SIDE OF THE BOARD.
- SECOND LAYER, TO FIX, BECOMES PROBLEMATIC WITH 2 ROPE ENDS.
- ② → LOOP 2 ROPE ENDS THROUGH WASHER AND HOLES IN BOARD PRODUCT
- ③ OBSERVATIONS:
- NO TENSION, NOT SECURE, NOT EVEN
- NOT STRONG

⑤ OBSERVATIONS:

- SPANNING TEXTILE 2 BETWEEN TENSILE STRUCTURE RESULTS IN SAMPLE "SAGGING" TOWARDS THE CENTRE (LOOKS LIKE A HAMMILTON MOVING STRUCTURAL FIXINGS DOES NOT SOLVE THIS PROBLEM. AS PRIMARY CORDS RUN FROM LEFT TO RIGHT ↑ NOT FROM FRONT TO BACK, ANOTHER CAUSE COULD BE THAT STRUCTURE ROPES ARE NOT PULLED TAUGHT ENOUGH RESULTING IN SAGGING.

- ALSO, TEXTILE STRUCTURE SPACE DEFINING ELEMENT NOT AESTHETICALLY PLEASING. [EXAGGERATE SAGGING.]

TEXTILE SAMPLE TOO THICK AND HEAVY.

↓ THIS A NEED FOR A LIGHTER TEXTILE.

④ → SAMPLE ONE KNOT AND FIXING POINT ELONGATED

SEE ⑤

CURRENTLY LOOSE ENDS VISIBLE ON SAMPLE PIECE ARE HANGING EXPOSED.

→ DESIGN / ITERATE SAMPLE TO 'HIDE' RUNNINGS ENDS OF ROPE.

⑥ OVERALL OBSERVATION:

- SIZE OF FLAT TEXTILE SAMPLE DETERMINES POSITION OF ANCHOR POINTS ON FLOOR/MEZANINE.

FISHERMAN'S KNOT + OVERHAND LOOP KNOT.

→ FIX 'FLAT' THICK TEXTILE (SAMPLE) BETWEEN 4 (DOWN) ROPES.
→ THIS FLAT TEXTILE THEN REPLACES THE HARD BOARD PRODUCT.

④ OBSERVATIONS:

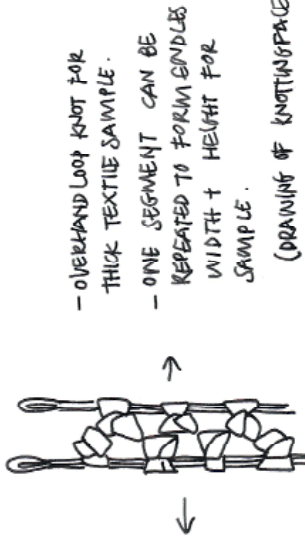
- TYPE OF KNOT USED TO FIX SAMPLE CREATES VERY LONG CONNECTION POINTS. NOT GREAT AESTHETICALLY.
- BOARD IS SIMPLY 'REPLACED' BY FLAT TEXTILE - THIS DOESN'T EXPLOIT CHARACTER OF TEXTILE TO THE FULLEST.
- LOOSE RUNNING ENDS OF SAMPLE UNEAT.

-27.05.

-25.05.

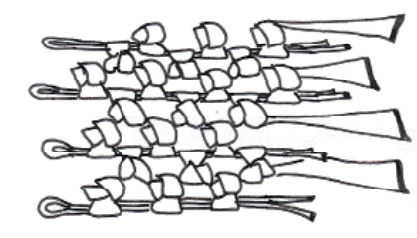
-26.05.

→ TO MAKE BIRD.
SEE ⑥.



- OVERHAND LOOP KNOT FOR THICK TEXTILE SAMPLE.
- ONE SEGMENT CAN BE REPEATED TO FORM BUNDLES WITH WIDTH + HEIGHT FOR SAMPLE.

(DRAWING OF KNOTTINGSPACE)



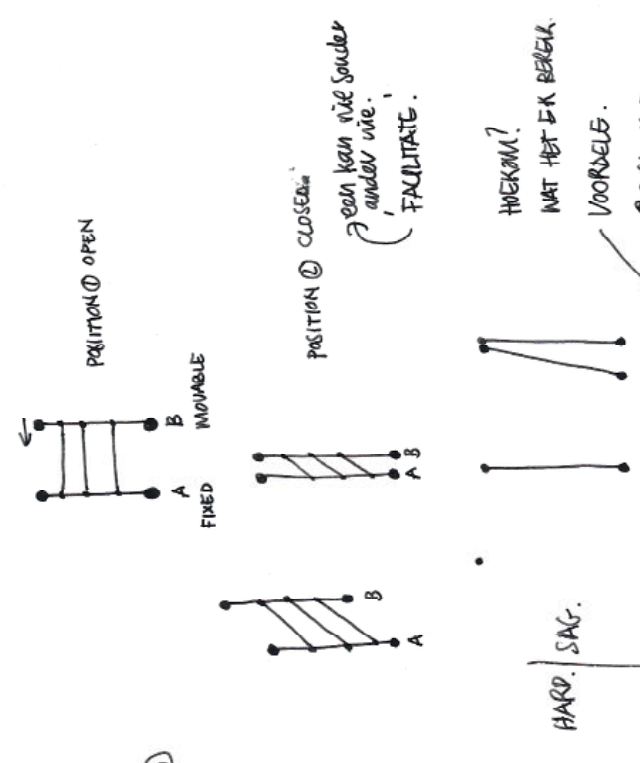
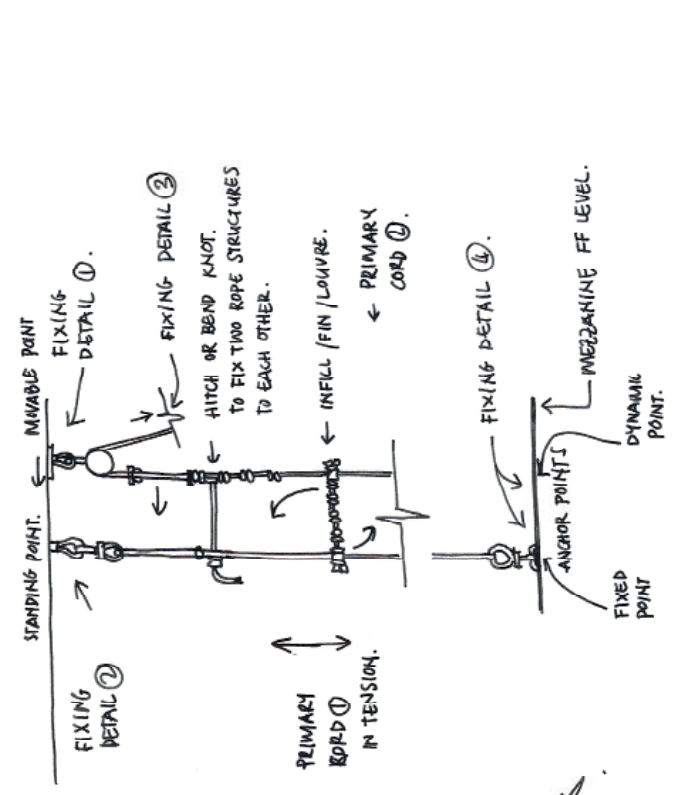
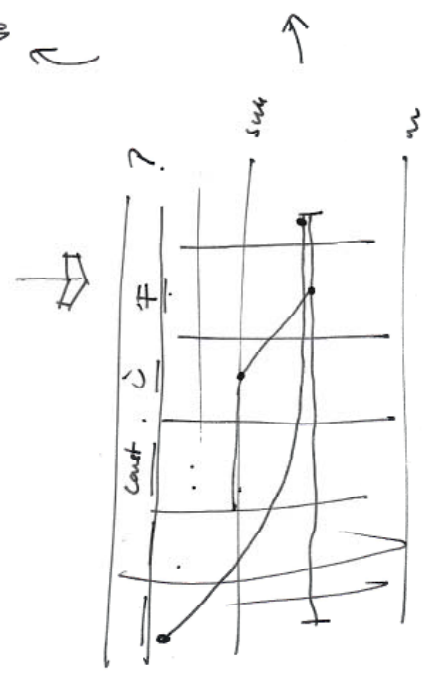
* OBSERVATIONS:

- REMAINING ENDS OF ROPE NEED TO BE DESIGNED INTO KNOTTING PROCESS.
- WHEN LONG PIECES OF SAMPLE NEED TO BE MADE, PROCESS WILL BE TEDIOUS AS THE ENTIRE REMAINING END NEEDS TO BE FED THROUGH 'LOOP OF OVERHAND LOOP KNOT.'
- PRIMARY CORD LENGTH TO BE DETERMINED BEFORE MAKING PROCESS, FILLER CORD CAN SIMPLY BE ADDED ONTO THE END BY STITCHING IT ON.
- TEXTILE COULD POTENTIALLY BECOME VERY HEAVY.
- TEXTILE STILL VERY 'FLAT'!
- HEAVY = 'NEIGHBY' TEXTILE PANEL.

DESIGN NEED FOR LIGHTER TEXTILE SAMPLE
MAYBE USE OF LIGHTER INFILL MATERIAL. OR, THE LOUVRE SYSTEM IS A BEGIN SUGGESTION FOR THE SEMI-PRIVATE SPACE THIS CAN BE LESS DENSE.

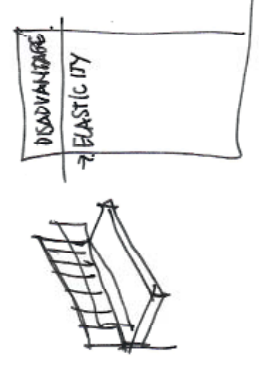
WHAT WIL TERSTIEKE DOEN?
TYDEK.?

BEHOODERSE
VERHOORIN



aan kan nie sonder ander wire.
FACILITE.

HEKKA!
WAT HET EK BEREK.
VOORDELE.
① ROLPUNT. 3.
② BAVOER.



28-05.
27-05.

* CONCLUSION AFTER TEST 5

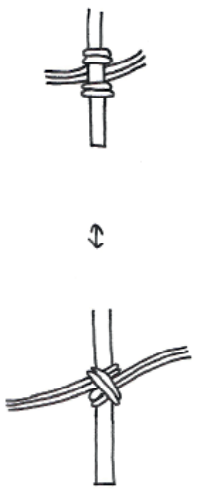
- RESULTS IN TWO BRANCHES OR CYCLES.
- DESIGN A 'LIGHTER' (WEIGHT) TEXTILE. → LESS DENSE MORE OPEN → THINNER TEXTILE | ROPE.
- DESIGN A MORE RIGID TEXTILE.

TEST 6: BE INVESTIGATING RIGIDITY. WIRE, TIMBER, STEEL } FRAME/SUPPORT/FIXING/LOADS
 EXTRA - USE OF TIMBER PANNEL (11MM X 910MM).
 AS 'STRUCTURE' TO ENHANCE TEXTILE FORM:

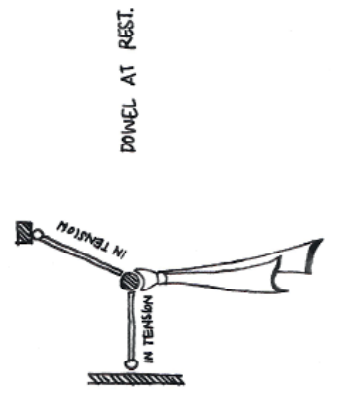
FIXING ROPE TO FRAME. [LANKS HEAD / COIN HITCH]



FIXING ROPE TO DOWEL. [CLOVE HITCH] [DOUBLE] CORD.

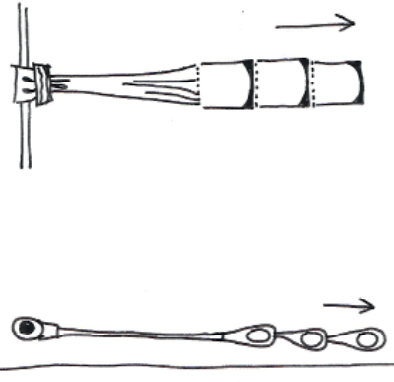
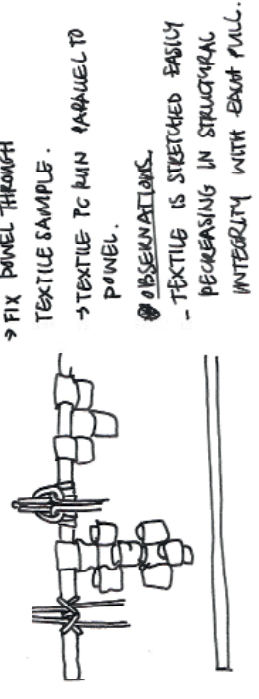


FIXING SINGLE ROPE



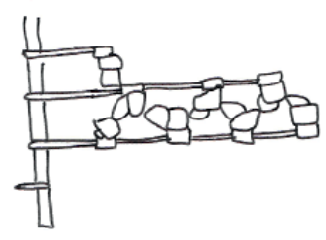
CONTINUED.

→ DRAWING OF KNOTTING BACK.



* WEIGHTED TEXTILE.

- BUT WHEN PULLING DOWELS AWAY FROM EACH OTHER, SAMPLE BECOMES FLAT HORIZONTAL ELEMENT.
- BUT BECAUSE PC HORIZONTAL WITH DOWEL SAMPLE STRETCHES (INDUAL EVENTUALLY COME APART).



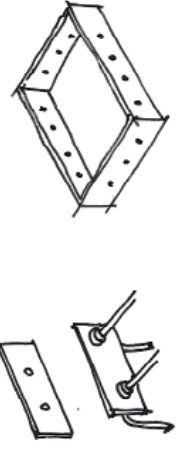
- LOOP PANNEL THROUGH OPEN ENDS OF TEXTILE SAMPLE.

OBSERVATIONS.

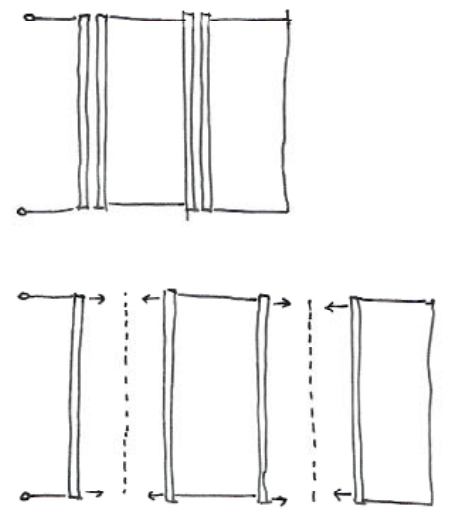
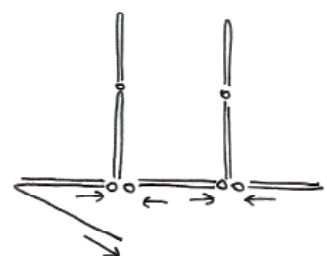
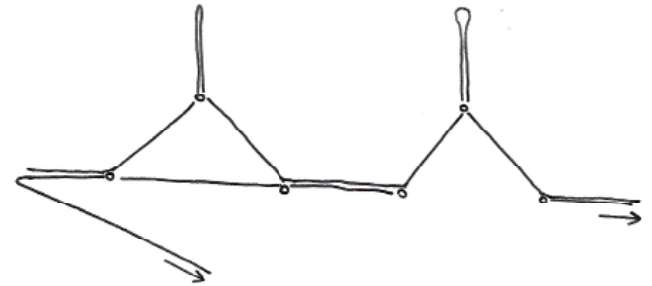
- TEXTILE SAMPLES OBVIOUSLY 'LONG'.
- WHEN PULLING AT BOTH ENDS OF SAMPLE (WHERE FIXED TO DOWELS) SAMPLE STRETCHES OUT INTO FLAT HORIZONTAL PLANE / ELEMENT.
- SAGGING IN TEXTILE IS REDUCED.
- SAMPLE MUCH MORE STURDY WITH PC ASSURTURE.

- KNOT USED FOR FIXING NOT BEST SELECTION, FIX WITH DIF. KNOT.
- LINES OF SAMPLE OBVIOUSLY NOT MOST SECURE WAY OF FIXING TOP PART OF SAMPLE.
- FINISH ENDS OF SAMPLE IN PREPARAT. TO BE FIXED TO OTHER ITEMS.

* POTENTIAL RIGID STRUCTURE.



* POTENTIALLY INCORPORATE FRAME



29-05.
31-05.

THERE IS NOTHING WRONG WITH YOUR TELEVISION SET. DO NOT ATTEMPT TO ADJUST THE PICTURE. WE ARE CONTROLLING TRANSMISSION. IF WE WANT TO MAKE IT LARGER, WE WILL BRING UP THE VOLUME. IF WE WANT TO MAKE IT SMALLER, WE WILL TURN IT TO A WHISPER. WE WILL CONTROL THE HORIZONTAL. WE WILL CONTROL THE VERTICAL. WE CAN ROLL THE IMAGE, MAKE IT FLATTER. WE CAN CHANGE THE FOCUS TO A SOFT BLUR OR DRAWN IT TO GREAT CLARITY FOR THE NEXT FRAME. SET QUANTITY AND WE WILL CONTROL ALL THAT YOU SEE AND HEAR. WE REPEAT. THERE IS NOTHING WRONG WITH YOUR TELEVISION SET. YOU ARE ABOUT TO PARTICIPATE IN A GREAT ADVENTURE. YOU ARE ABOUT TO EXPERIENCE THE AWESOME MYSTERY WHICH REACHES FROM THE INNER MIND TO THE OUTER LIMITS.

- THE OUTER LIMITS, 1962.

A SPACE CAN BE DEFINED BY A SINGLE VERTICAL / HORIZONTAL PLANE

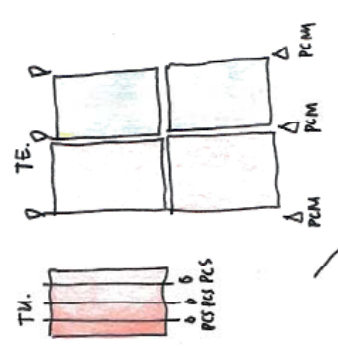


Sylvie Kruger

↑ 3-DIMENSIONAL SPACE DEFINING ELEMENTS THAT COMBINE THESE?

→ HORIZONTAL + VERTICAL PLANES

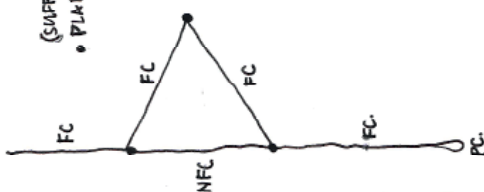
SPATIAL, THESE DIMENSIONAL ELEMENT THAT DEFINES SPATIAL ZONES → GO BACK TO CHANGING EXPLOITING THE CHARACTER OF TEXTILES



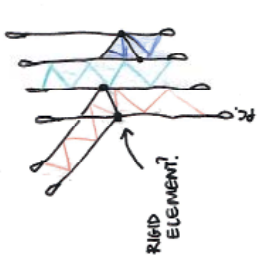
BUT NOT A SINGLE DIMENSIONAL FIELD. TEXTILE IN A SINGLE VERTICAL PLANE.

IF STRAND NAMED, SECOND DIMENSION CAN BE CREATED. MORE STRAND OUT OF THIS PLANE, THEN THE ONLY LIMITATION IS THE MILD + THE LENGTH OF THE ROPE.

(SUFFICIENT) PLANAR IRREGULARITIES INTERSECTIONS. [ON TH + TE LEVELS]



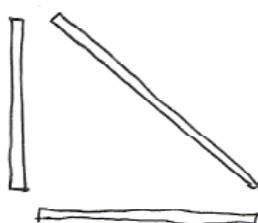
A TEXTILE IS NEVER SIMPLY A FLAT PLANE LIMITED TO ONE DIMENSIONAL AS SINGLE FIELD.



'THE QUESTION OF WHAT KNOT IS BEST FOR A PARTICULAR NEED IS PERHAPS THE MOST IMPORTANT OF ALL TO BE CONSIDERED.'

ASHLEY MUIR: 8.

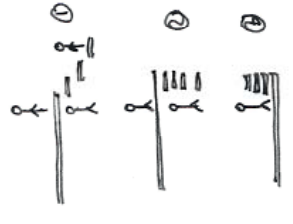
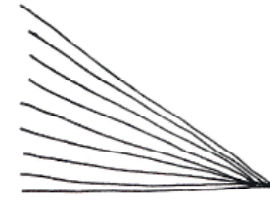
- SPAN / STRETCH
- TEMPORALITY
- CONVERGENCE / DRAPE
- CONTAIN — HARD FORM — SOFT FORMS.



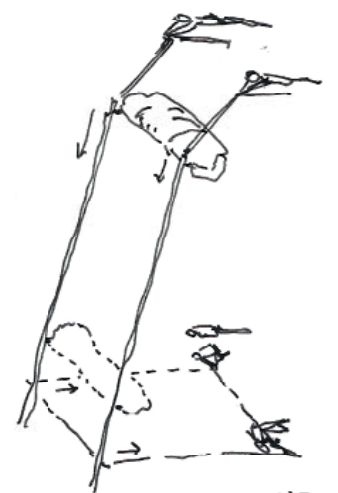
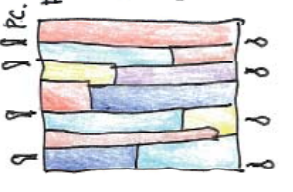
→ THIS COULD ONE SAY, THAT DUE TO THE TEMPORAL NATURE OF TEXTILES, THAT IF THE TEXTILE 'ELEMENT/OBJECT' IS REMOVED FROM THE SPACE, THE SPATIAL ZONE CANNOT CONTINUE TO EXIST.

→ IN THIS WAY THE TEXTILE IS NOT SIMPLY ADDITIVE / SECONDARY BUT FORMS THE PRIMARY CONTRIBUTIVE TO THE FORMATION OF THAT SPATIAL ZONE.

→ IT COMPLETELY CHANGES / REPLACES THE NATURE OF THE CREATED SPATIAL ZONES TO REMOVE THE TEXTILE ELEMENT.



FC — CAN BE DESIGNATED FORM PATTERN + COLOR COMBINATIONS. NOT SIMPLY HAPTIC, BUT PATTERN PLAYS A ROLE IN THE UNDERSTANDING OF DESIGN.



DIE VRAAG IS NIE: KAN 'N ANDER MATEMATIEKAL DIESELDE PUNKSIE DIEK NIE (WANT IN WERKLIKHEID IS DIT 'N GEBIED) AS, DAT WERD VAN DIE PUNKTE AS, DIE WERD / BESTEL-BELEGTE VERWANTER WERD. KAN DIE VERWANTE VOORSTEL-LEEF SONDER NIE BESIGNENT?!

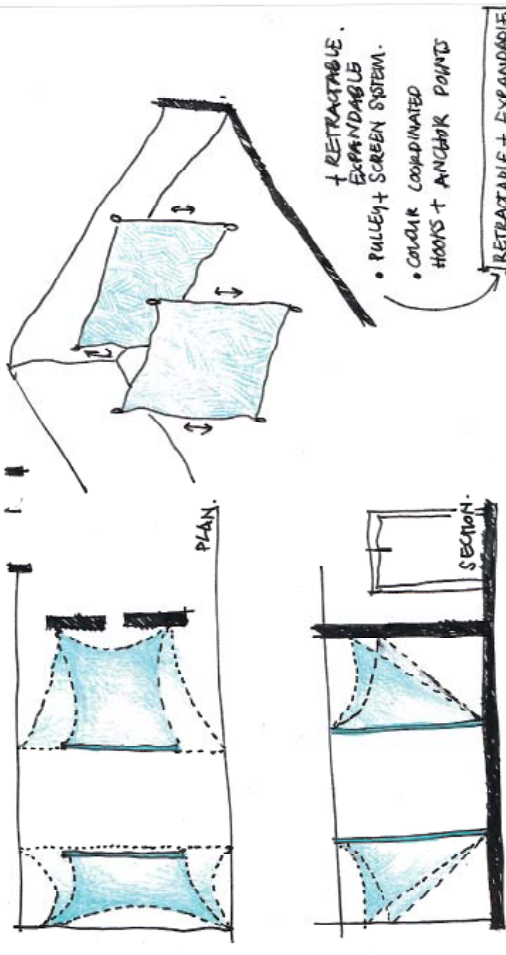
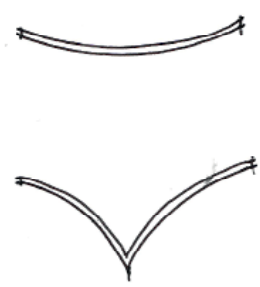
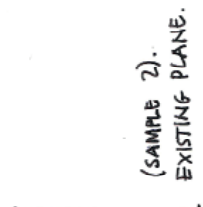
PERHAPS, ANOTHER MATERIAL WOULD PERFORM THE SAME UTILITY FUNCTION BUT, CAN IT PERFORM THE SAME ABSTRACTIC FUNCTIONS? (THESE 2 ASPECTS TOGETHER MAKE TEXTILES UNIQUE).

- KEYWORDS
- RETRACT, RECES
- EXPAND
- STRETCH
- DRAW-IN
- COMPRESS

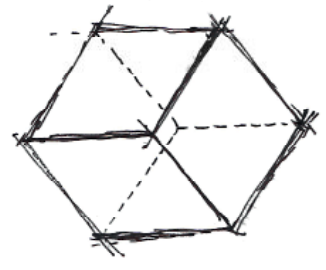
EXISTING TEXTILE UNIT.
* PLANAR IRREGULARITIES.

PLANAR IRREGULARITIES WITHIN TEXTILE UNIT.

- OBSERVATIONS!
- IMAGINING A FORCE ON VERTICAL ELEMENT, STRUCTURAL INTEGRITY IS DECREASED.
- UNIT WILL NOT BE STRUCTURALLY ADEQUATE WITHOUT RIGID REINFORCING. THE ROPE RUNNING FROM THE TOP TO THE BOTTOM
- ↳ SO 2: ADD RIGID ELEMENT TO THE UNIT.
- OR
- CAN THE FC BE USED TO CREATE PLANAR IRREGULARITIES RATHER THAN THE PCS?
- OR
- CAN UNITS BE USED TO CREATE ELEMENTS WITH PLANAR IRREGULARITIES. OR WILL THESE PROBLEMS OCCUR?



- ↑ RETRACTABLE, EXPANDABLE SCREEN SYSTEM.
- COLOUR COORDINATED HOOPS + ANCHOR POINTS
- RETRACTABLE + EXPANDABLE SCREEN AND PULLEY SYSTEM
- ↳ DYNAMIC SPATIAL DEFINITION.
- ↳ STORAGE.



FIXING OF TEXTILE ELEMENT PRIMARY CORN.



• GEOMETRIC FORMS - ASSOCIATION VS.

REALISE THE POTENTIAL.

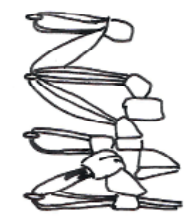
OPTION.

INVESTIGATION BETWEEN TEST 13 + 14.

07-06
04-06

TEST 15

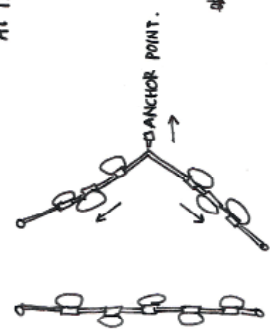
* EXISTING TEXTILE SAMPLE 2.



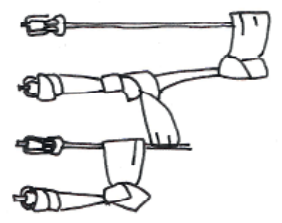
FILLER CORD + PC PARALLEL.
→ PLANAR IRREGULARITIES.

OBSERVATIONS:

- WHEN PULLING ON PC (S) CENTER THE TEXTILE FORMS A BOUNDED SHAPE (CONVEX).
- FILLER CORD COMPRESSES TOWARD EACH OTHER FORMING AN OPENING AT THE ANCHOR POINT.
- PRIMARY CORD (S) SLIDES THROUGH LOOPS IN FC.
- WHEN RELEASING PC (S) TEXTILE SAMPLE APPEARS UNEVEN.
- ↳ FORCE NEEDS TO BE APPLIED ON PULLING PC(S) DOWN TO CORRECT SAMPLE PATTERN.

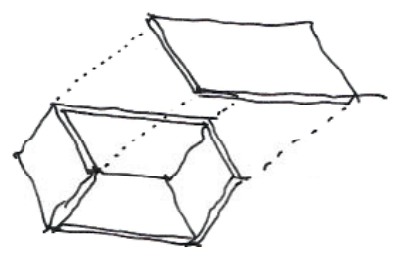
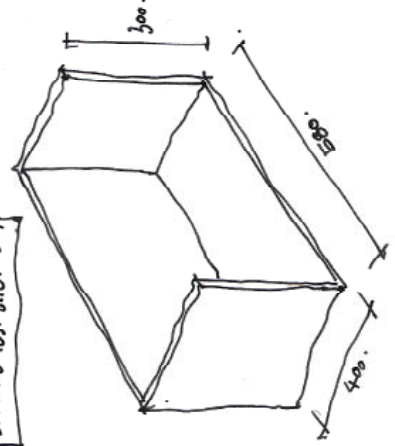


TEST 16



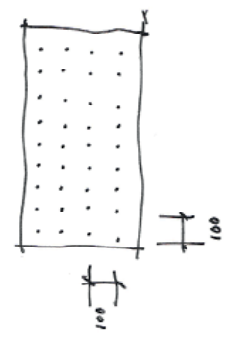
- ELONGATED NOOSE KNOT.
- TIE THE KNOT LOOSER THAN SAMPLE 2.
- * OBSERVATIONS
- WHEN PULLING ON PC CENTER A LARGE WHOLE IS FORMED AT THE POINT OF PULL.
- KNOTS SLIDE EASILY ON PC BUT DOES NOT LOOK GOOD, AND IS NOT STRONG.
- TEXTILE APPEARS VERY LOOSE + FRAGILE.

SITE 2. SPATIAL TEST SITE. (BOX)

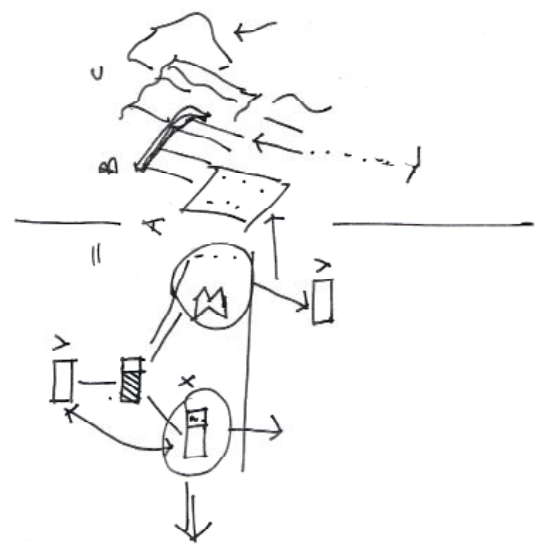


PANEL WITH HINGE + CLIP IN ORDER TO ENSURE 'CUBE'!

GRID WITH HOLES FOR FIXING.



EVEN SPACING, CORRELATION BETWEEN BASE + SIDE PANELS. IN ORDER TO ENSURE FIXING SPACE THAT CORRESPONDS.



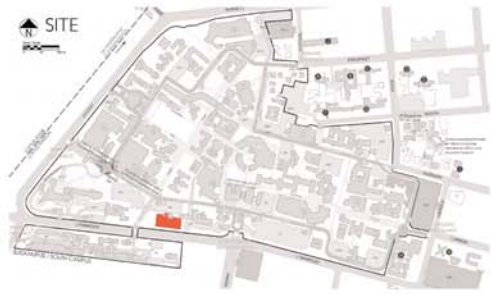
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appendix D

Initial design charrette



TEXTILE SPACE MAKING AND THE ISSUE OF DECORATION: a digital presentation lounge for boukunde



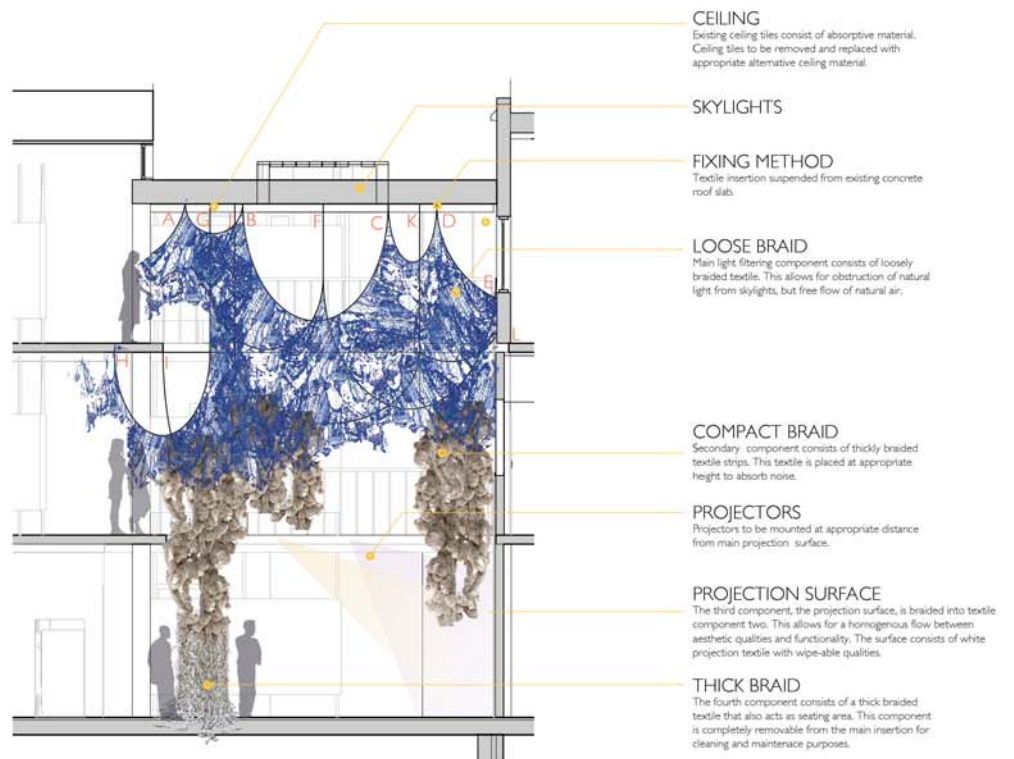
THEORETICAL ISSUE

Within the discipline of interior design, the act of decoration is more often than not observed as inferior and superfluous. The dissertation investigates how designing with textiles (alternative construction and design) could challenge the negative associations that interior designers have with the act of decorating. It aims to create decoration with aesthetic and use functions. In so doing, emphasizing the importance of decoration within interior design, to celebrate the differences between architecture and interior design. This aims to diminish the interior design's inferiority complex.

REAL WORLD ISSUE

Within the department of Architecture, Interior architecture and Landscape architecture at the University of Pretoria, much emphasis is placed on environmentally sustainable design. Although these principles are often present in the final design product, it is not reflected in the manner of presentation, as this is still largely paper-based. Currently digital presentations are structured in a more formal manner, typically in locations such as lecture halls, whereas paper-based presentations and critiques usually take on a more organic structure.

It is proposed that a digital presentation space be created for the department of Architecture, within the main atrium of the Boukunde building. This location within the building allows for the organic structure present in paper-based presentation.



SECTION SCALE 1:50
Section indicating placement and scale of textile intervention. Points A-L indicate fixing points.

PROPOSED INTERVENTION

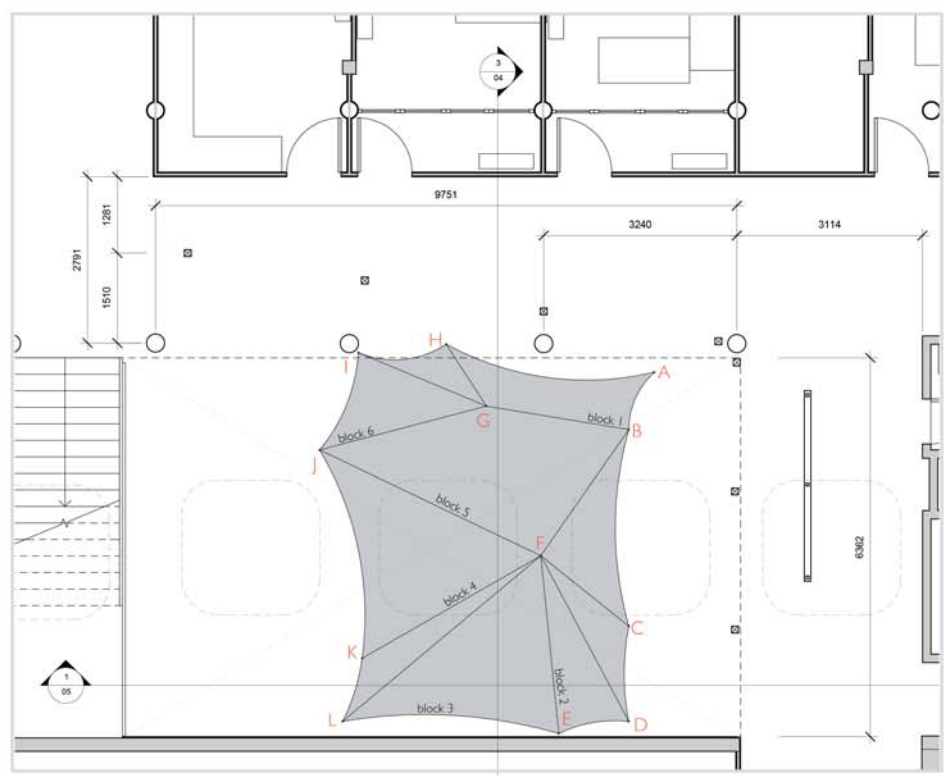
The proposed intervention consist of a series of textile components that create the digital lounge. The word lounge in the title signifies the organic nature of the presentation space, as opposed to the structured nature of conventional lecture halls.

Each layer of textile component is composed in a unique way and ensures textural quality as well as functionality and an aesthetically appealing environment. Each textile component, as in the list, is indicated on the section below.

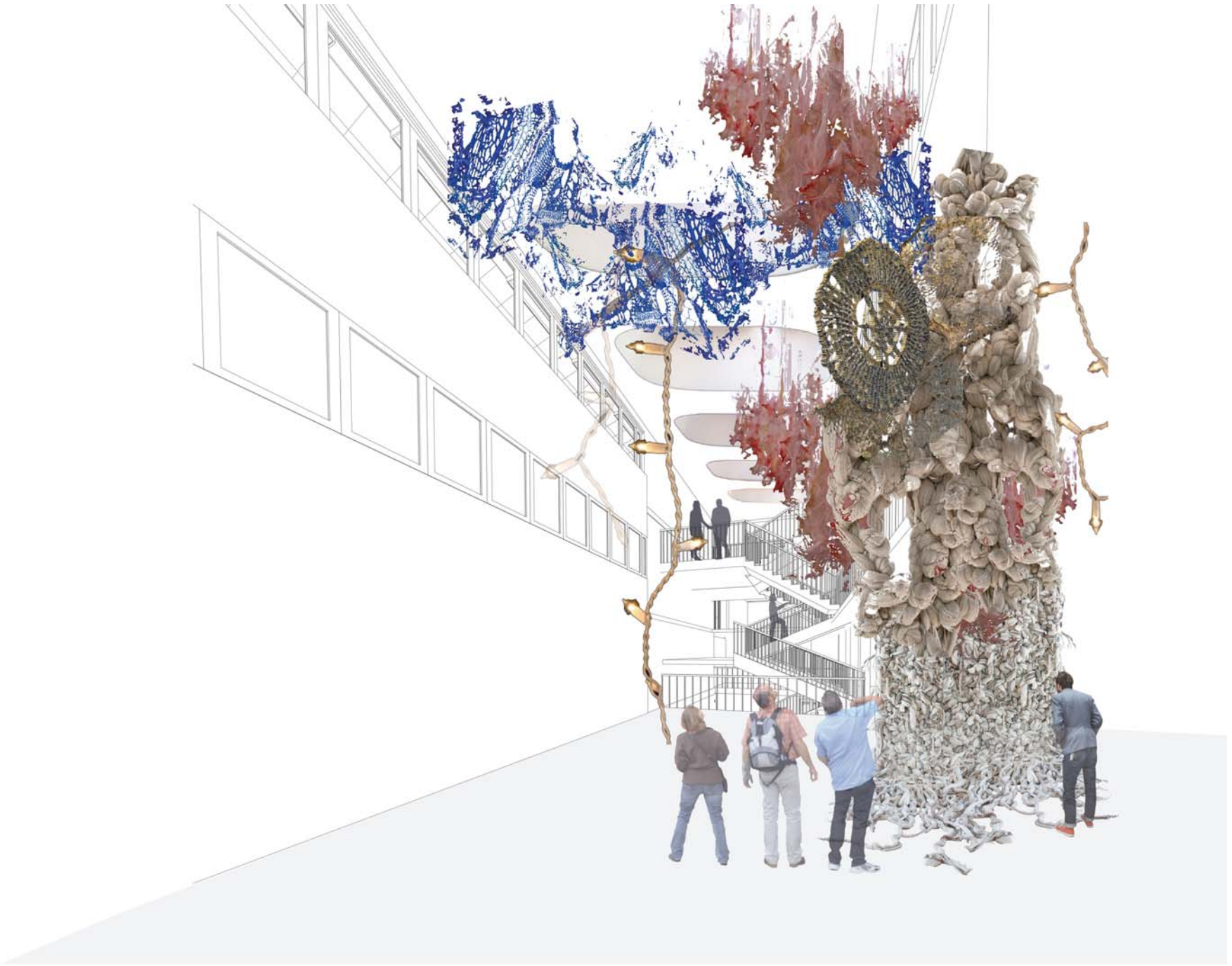
- Textile components:
1. Loose braid
 2. Compact braid
 3. Projection surface
 4. Thick braid

CONCEPTUAL APPROACH

The proposed design incorporates ideas such as the traditional versus the alternative. These elements are found within the design in the following ways:



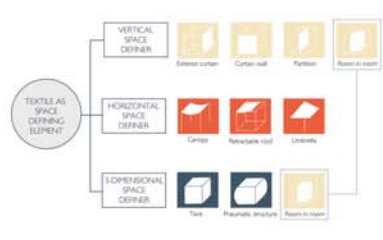
PLAN SCALE 1:50
Layout plan indicating placement and scale of textile intervention. Points A-L indicate fixing points.



ale
e



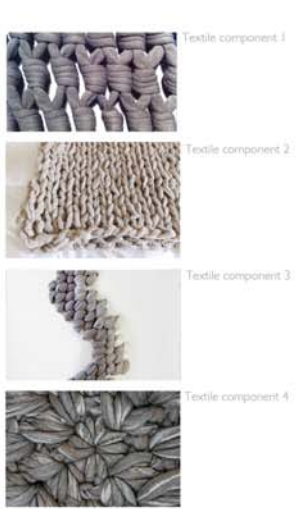
THEORETICAL APPROACH



EXISTING MATERIALS



PROPOSED MATERIALS



how to make t-shirt yarn

- 1 Lay the T-shirt flat and cut off the bottom seam and the top portion, right under the arms. Discard the top and bottom portions.
- 2 Fold what is left of the T-shirt in half, but leave about 2cm hanging over as the picture shows.
- 3 Cut the T-shirt into 2cm strips. STOP cutting right after the first edge.
- 4 Don't cut all the way through the T-shirt, as seen in picture.
- 5 Unfold the strips and open the end of the shirt where it is still connected. Cut diagonally from the end of one cut to the other. Follow as arrows indicate.
- 6 When done the T-shirt will be in a long strip as seen.
- 7 Starting with one end, pull the strip through your hand and give it a little stretch. This will cause the edges of the shirt to curl in, making a rounder, string yarn.

appendix E

Design charrette

NOTES:

- 'ANALYSIS' OF EXISTING BOKUNDE MATERIALS/ COLOUR PALETTE.
- SUGGESTIONS FOR PAINTING OF COLUMNS.
- PROMINENT/ICONIC ELEMENTS PRESENT WITHIN BOKUNDE?
- REQUIRED LUX LEVEL FOR STUDIO?

NORTHERN CLERESTORY SUNLIGHT CONTROL OF IMPORTANCE

NEW ANODISED ALUMINIUM AIR-CON BAFFLES. (DIRECTIONAL)? (POWDER COATED?).

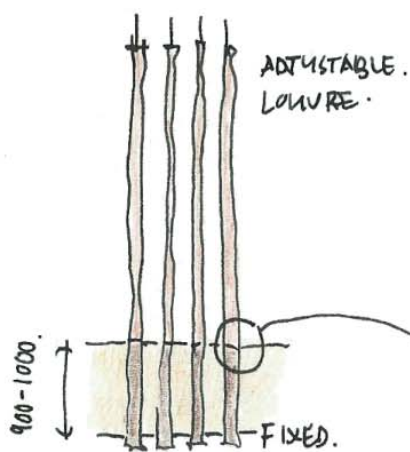
TIMBER CLADDING. PERMEABLE SHELL ALLOWS NATURAL LIGHT TO ENTER OFFICE SPACE (ALSO DOES NOT HINDER AIR-CON).

STEEL + TIMBER MEZANINE 'PERMEABILITY' OF IMPORTANCE. LIGHTING TO BE INSERTED.

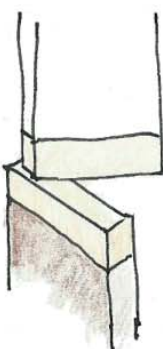
EXISTING WALL AS PROJECTION SCREEN.

TIMBER SLATS TO REFER TO EXISTING TIMBER CLADDING IN BOKUNDE.

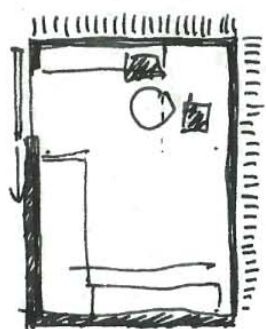
STAIRCASE WITH LARGE TREAD TO BE SUGGESTED AS SEATING OPPORTUNITY



BRASS CAP



BRASS ENDPLATE.



“
We are the Borg. Lower your shields and surrender your ships. We will add your biological and technological distinctiveness to our own. Your culture will adapt to service us. Resistance is futile.”

Star trek – First contact (1996)