FUNCTIONS IN DETAIL GROUP 2

SLEEPING | SOPHIE

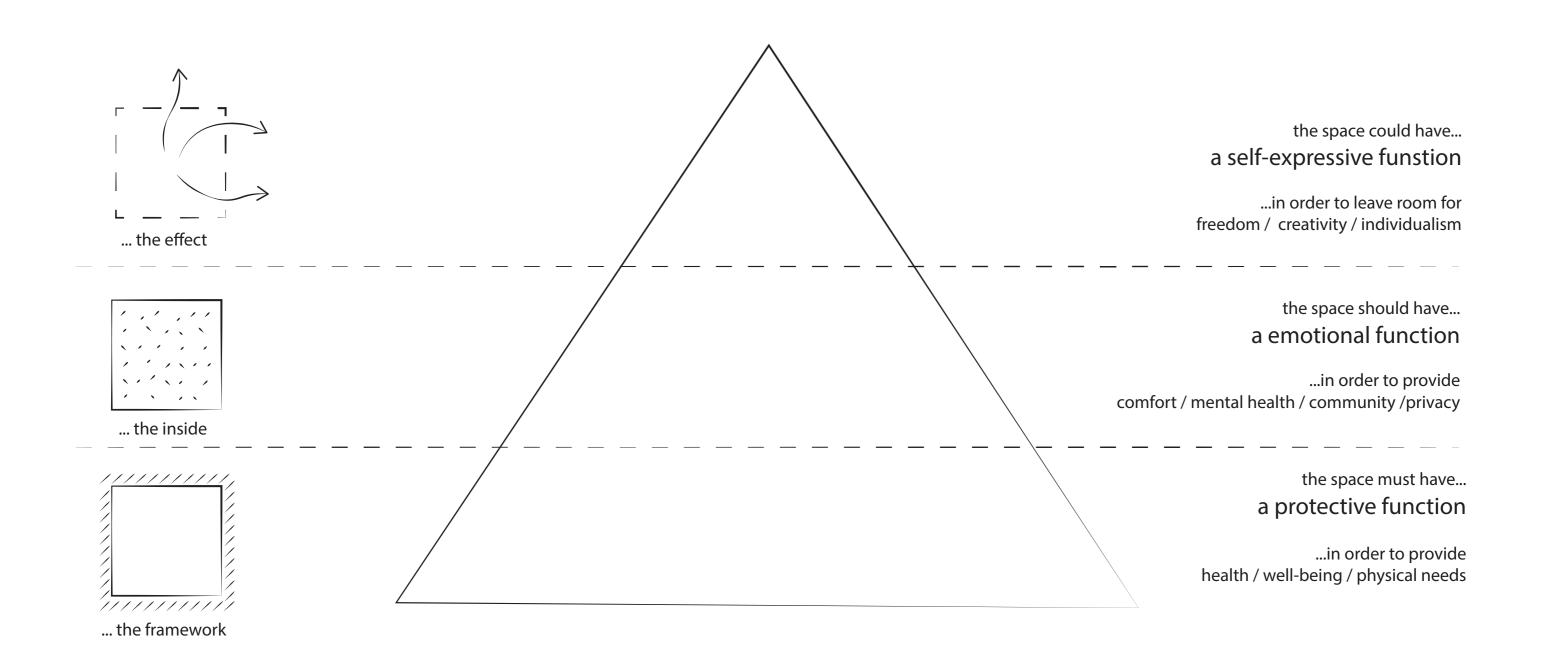
RECREATION/RECOVERY | ESZTER

WORKING | PEIYAO

PLAYING/HOBBIES | XINGHE

HYGENE/BATHING | YIDIAN

EATING/COOKING | MOA



- 1.Use natural materials.
- 2. Consider a minimal footprint.
- 3. Make use of natural light and a natural airflow.
- 4. Create a shape that allows for different functions and movement.
- 5. Allow for outdoor extension / relate to outdoors.
- 6. Work with different heights to achieve different feelings.
- 7. Use a tilted roof.

SLEEPING

RECREATION/RECOVERY

WORKING

PLAYING/HOBBIES

**HYGENE** 

**JOINT GUIDELINES** 

temperature

size

density

color

material

**TOOLS:** How Do We Do This?

light

location

acoustics flexibility

humidity

separation/connection

shape

**SLEEPING** 

RECREATION/RECOVERY

WORKING

PLAYING/HOBBIES

**HYGENE** 

What makes me sleep well?

What conditions does my environment need?

How much privacy do I need?

What would it mean to share that space?

How much movement should be allowed?

What other activities am I doing in my sleeping environment?

Do I need a bed?

**SLEEPING** 

RECREATION/RECOVERY

WORKING

PLAYING/HOBBIES

HYGENE

effective shading / calm light

warm colors

head close to the wall not towards the door

16-18°C

privacy

silence

cool and fresh air

small light, shelf, plug



Comments from the Interview

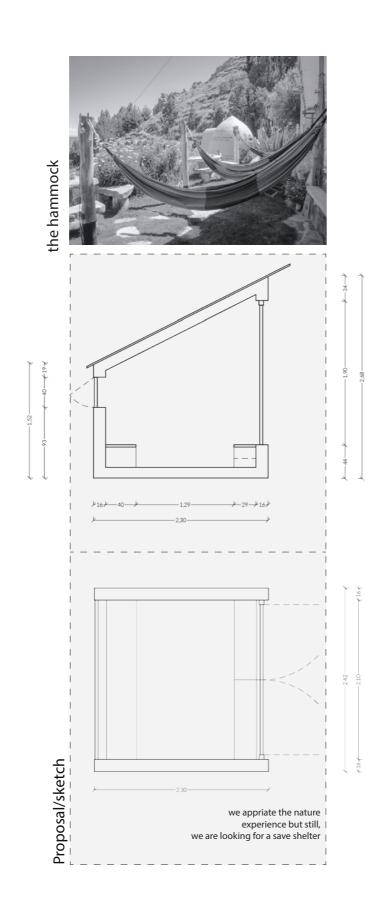
"silence,darkness, safe feelings, and being close to wall make me sleep well."

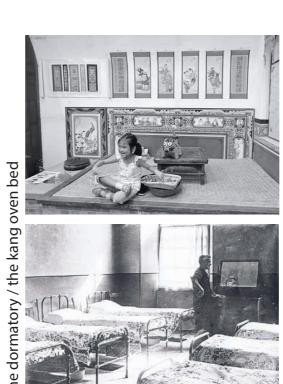
"I like reading before sleeping."

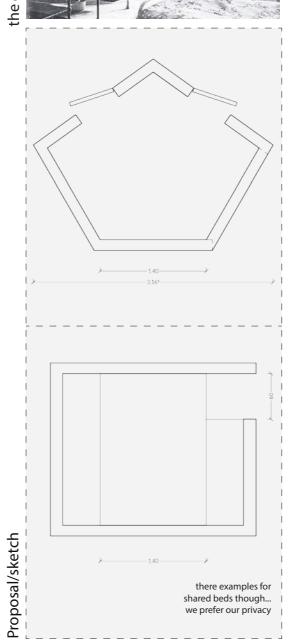
" I want the maximal privacy and separation from everything else."

"I want to feel as save as possible"

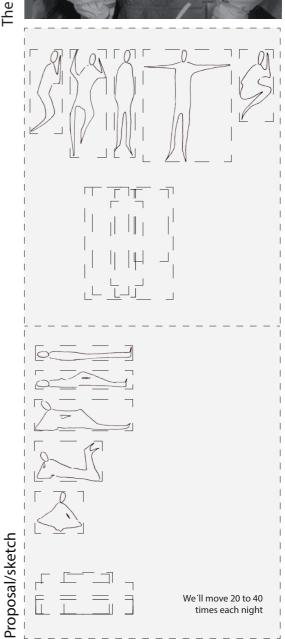
"I do not like to wake up in a dark room"

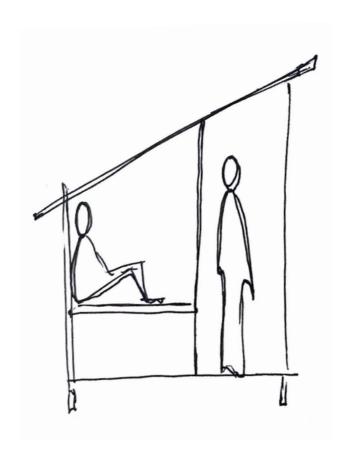




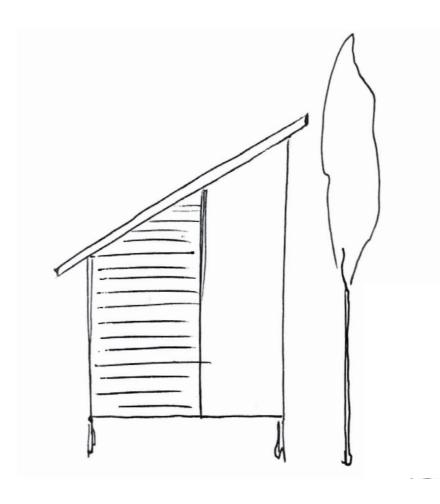


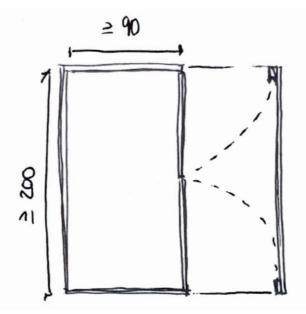




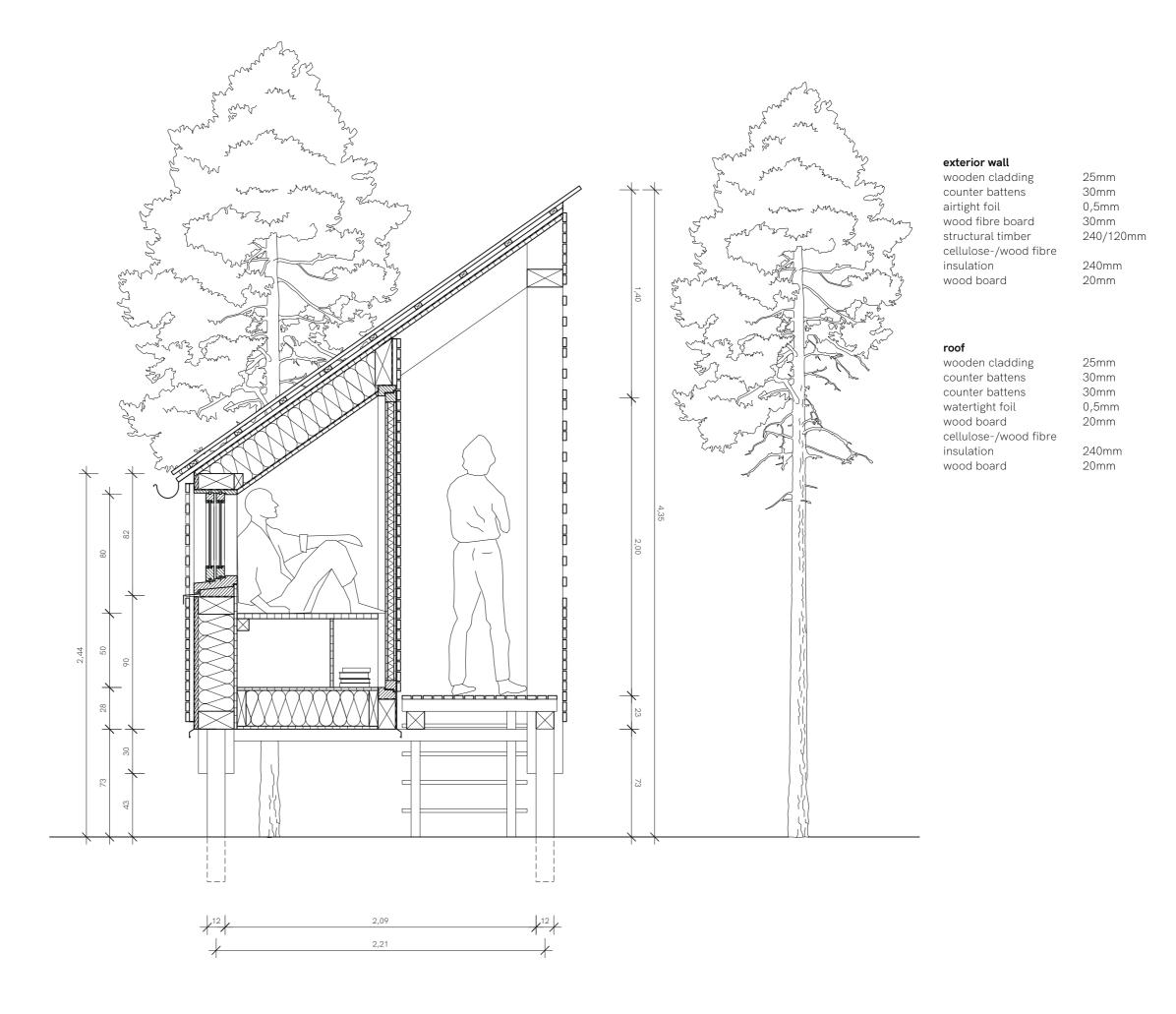


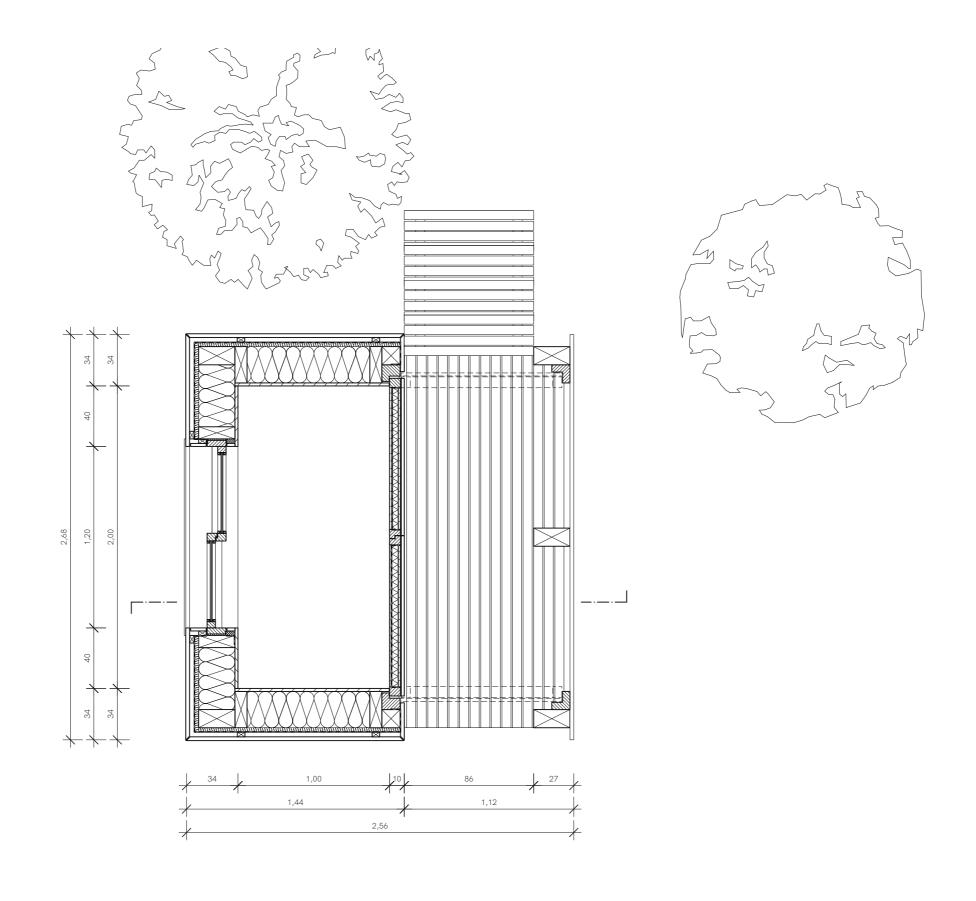
material: wood
windows north / shading
16-18°C
silent atmosphere
head close to the wall
privacy
allow for airstream / cool air

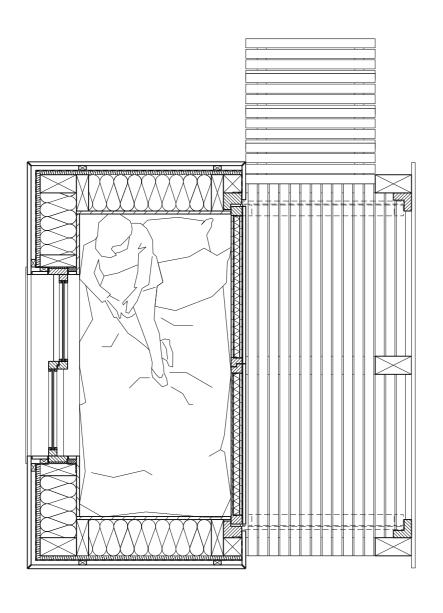


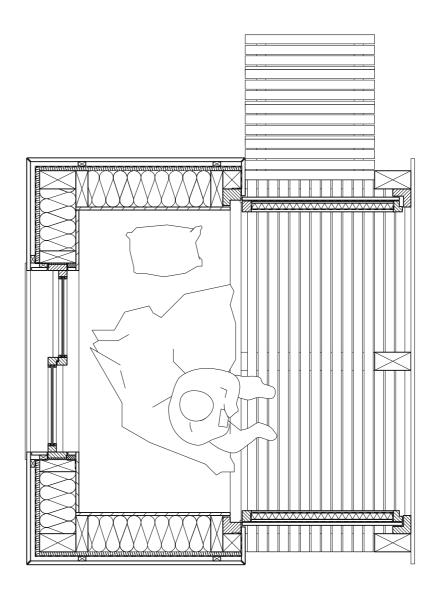


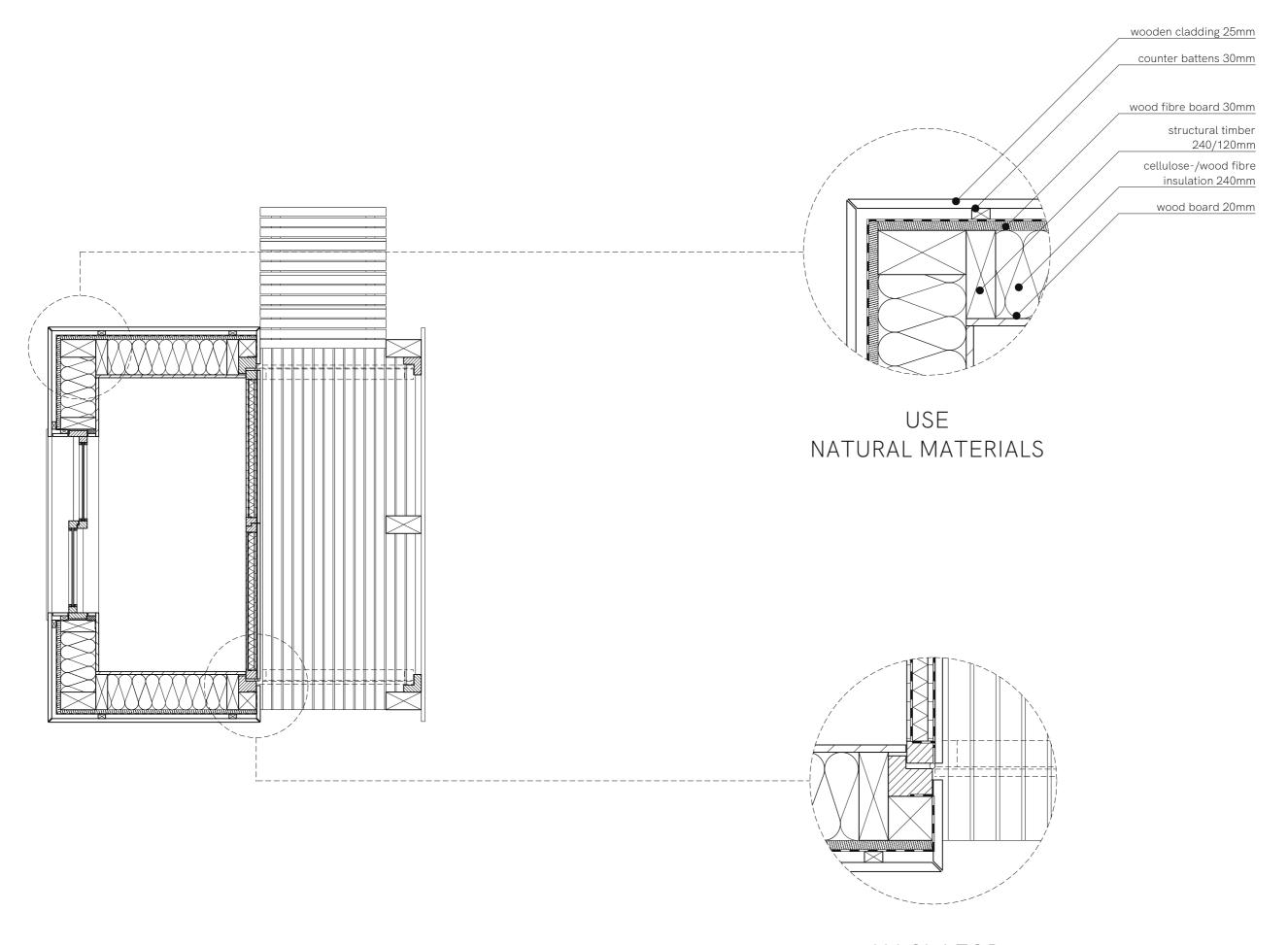




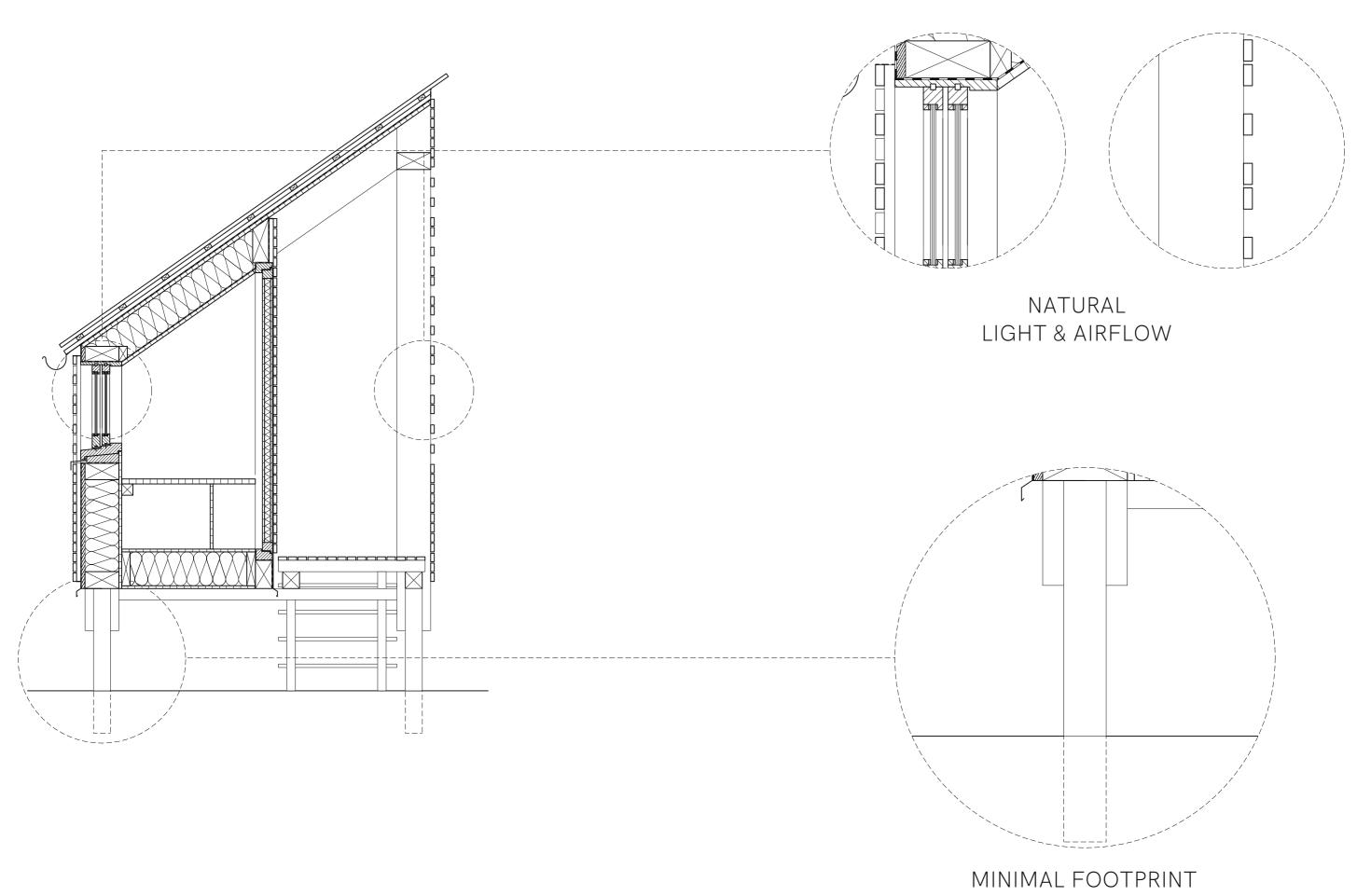


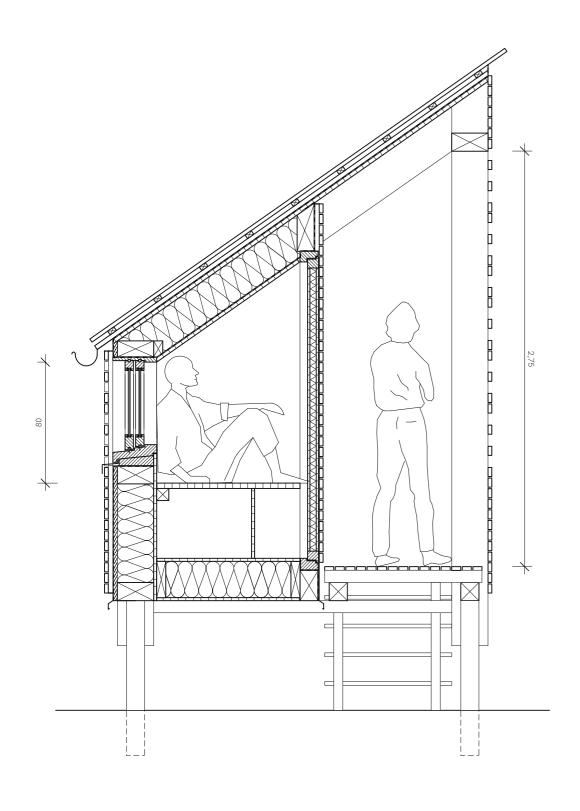






ALLOW FOR OUTDOOR EXTENSION





## TILTED ROOF

# constructive protection

## THE SHAPE ALLOWS FOR DIFFERENT FUNCTIONS

sitting lying storage standing

## USE DIFFERENT HEIGHTS

protection openness









What kind of athmosphere makes me calm and relaxed?

How big space do I need for recreation?

What objects do you use for recreation?

What kind of athmosphere makes me energised?

What activities fill me up with energy?-

SLEEPING

# RECREATION/RECOVERY

WORKING

PLAYING/HOBBIES

HYGENE/BATHING

material: durable for sports light: flexible based on activity size: human body + moving

colour: bright

location: visible/physical connection to nature

temperature: 10-25

humidity: low

acoustics: sounds of nature

flexibility: highly needed

shape: defined by human body, smooth surfaces

Comments from the Interview

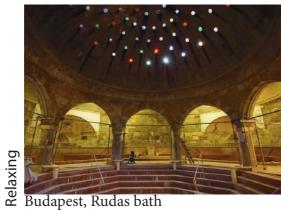
involves 3 activities: relaxing, prayer and sports

can be shared and personal

close connection to nature but turning inwards too

can be connected to other functions but separation is also needed

playing with natural light and connection with nature defines the activity











Rome, Colosseum

inspiration: Japanese architecture:

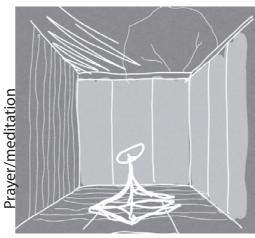
,SHoJI AND FUSUMA Shōji (moveable screens) and fusuma (, sliding doors) were always included in old Japanese houses. Shōji consist of wooden frames with translucent paper, allowing light to shine through, while fusuma paper is opaque, therefore not allowing light to shine through. In most homes, they are usually solid white, though in shrines or temples they are often painted on. Despite their similarity, they differ in roles. Both shōji and fusuma are utilized as interior doors and partition, used to divide and re-divide rooms, though solely shōji are used as windows, exterior walls and exterior doors, as they allow light and shadows to flicker into homes, adding a cozy feel. Both became well known in the West, becoming one of the first aspects of Japanese architecture to venture over.'

source:

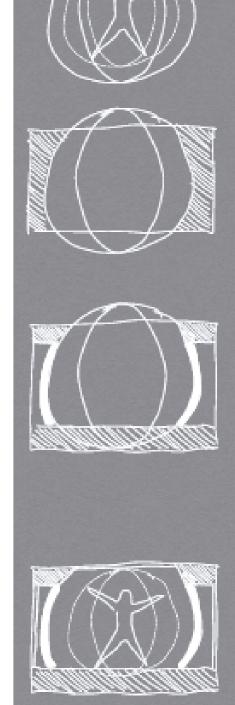
https://www.toki.tokyo/ blogt/2020/4/8/eight-elements-of-japanese-architecture

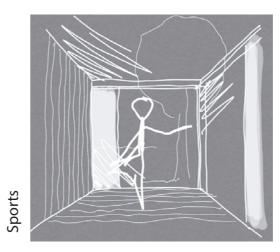










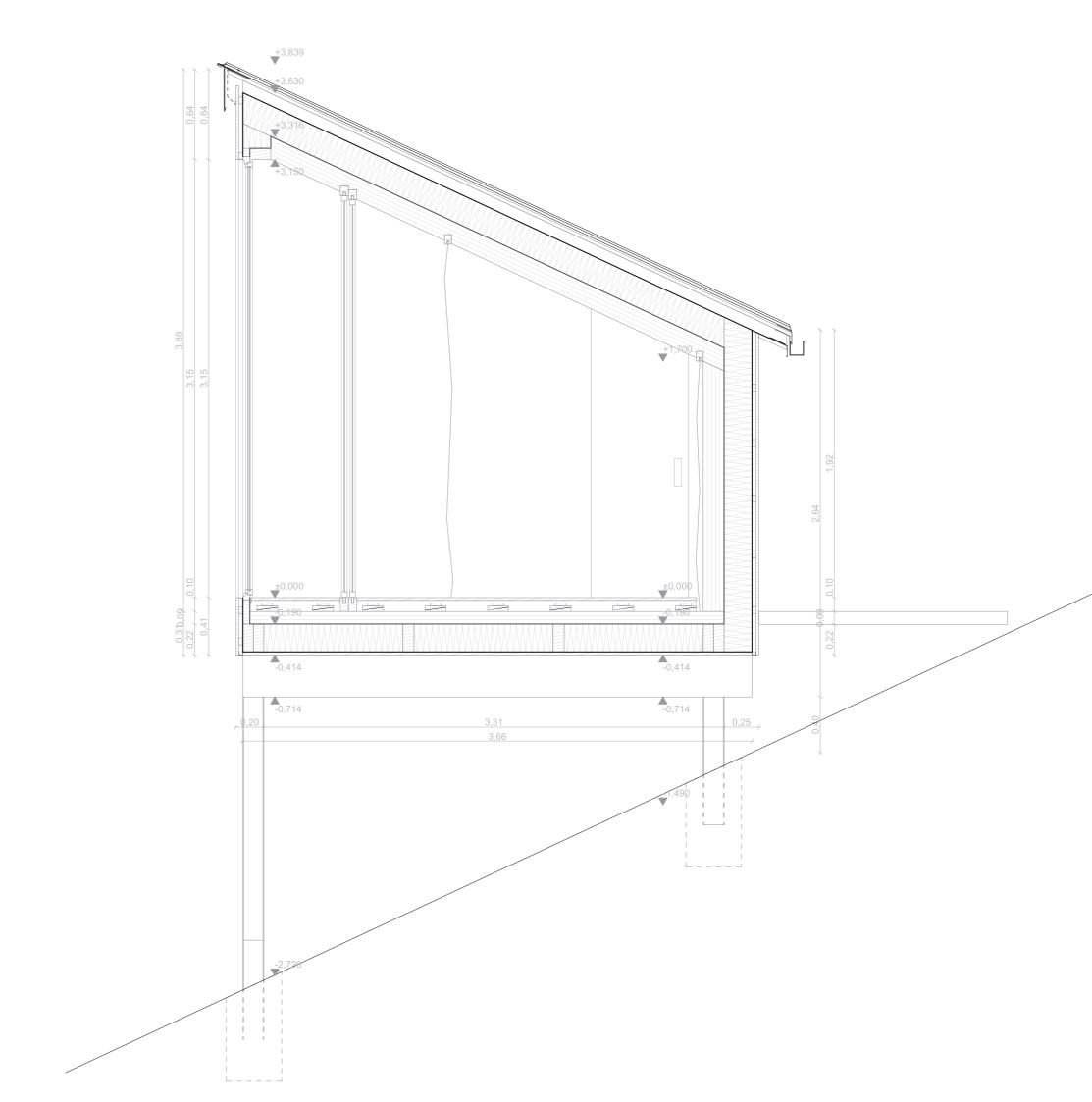


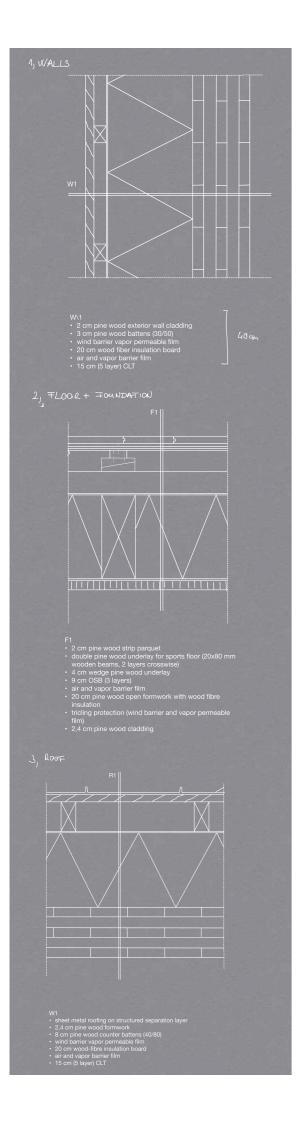
#### materials

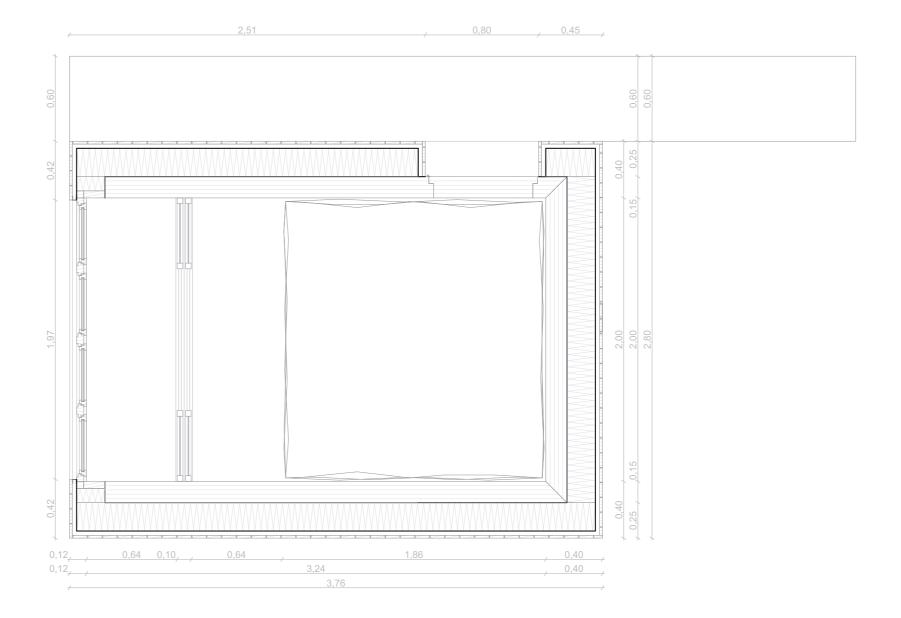












How much space do I need to share it with other people?

How much space do you need at work?

What is your mood when you work?

What do you use when you work?

What kind of environment do you need at work?-

SLEEPING

RECREATION/RECOVERY

# **WORKING**

PLAYING/HOBBIES

HYGENE/BATHING

Privacy/Shared

Quite/good view

Storage space

Basic table and chair

**Plants** 

Light

Coffee/Water

Electricity

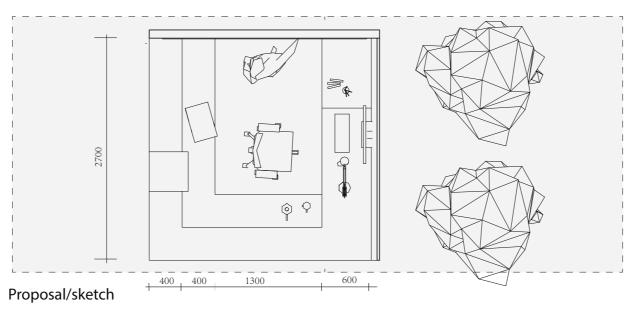
Traditional Chinese working space is a spiritural paradise for Chinese scholars,
They all attach importance to the setting of their working space.

#### Comments:

"My mood is like creative/motivated/ cluelss/burnout'

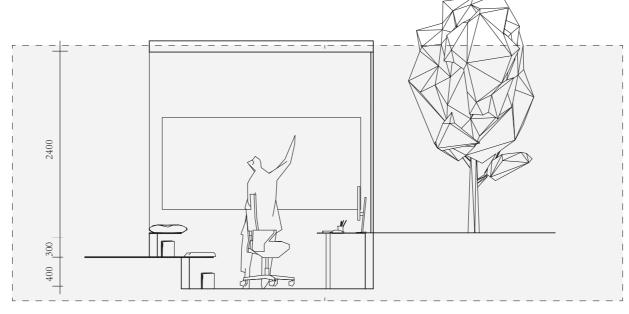
"Some where quiet or white noise is ok/I need cafe and water/ light/bigtable/electricity"

"Maybe a shared table with my partner"





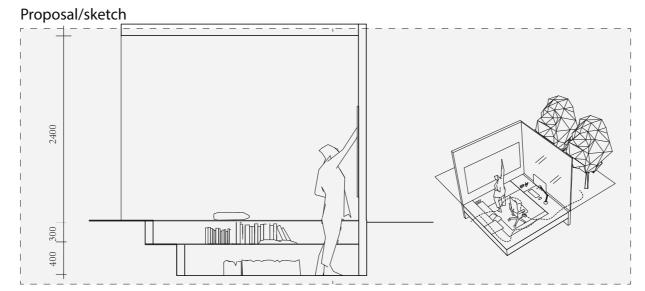
Tranditional Chinese working space



Proposal/sketch

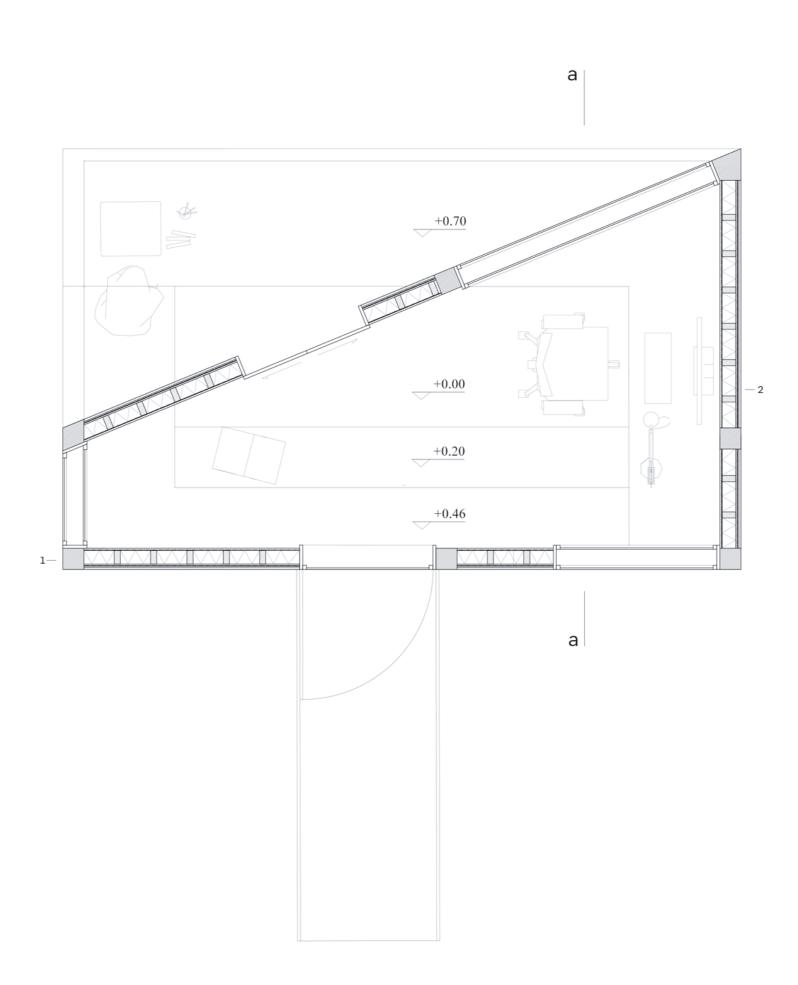


Tranditional Chinese working space



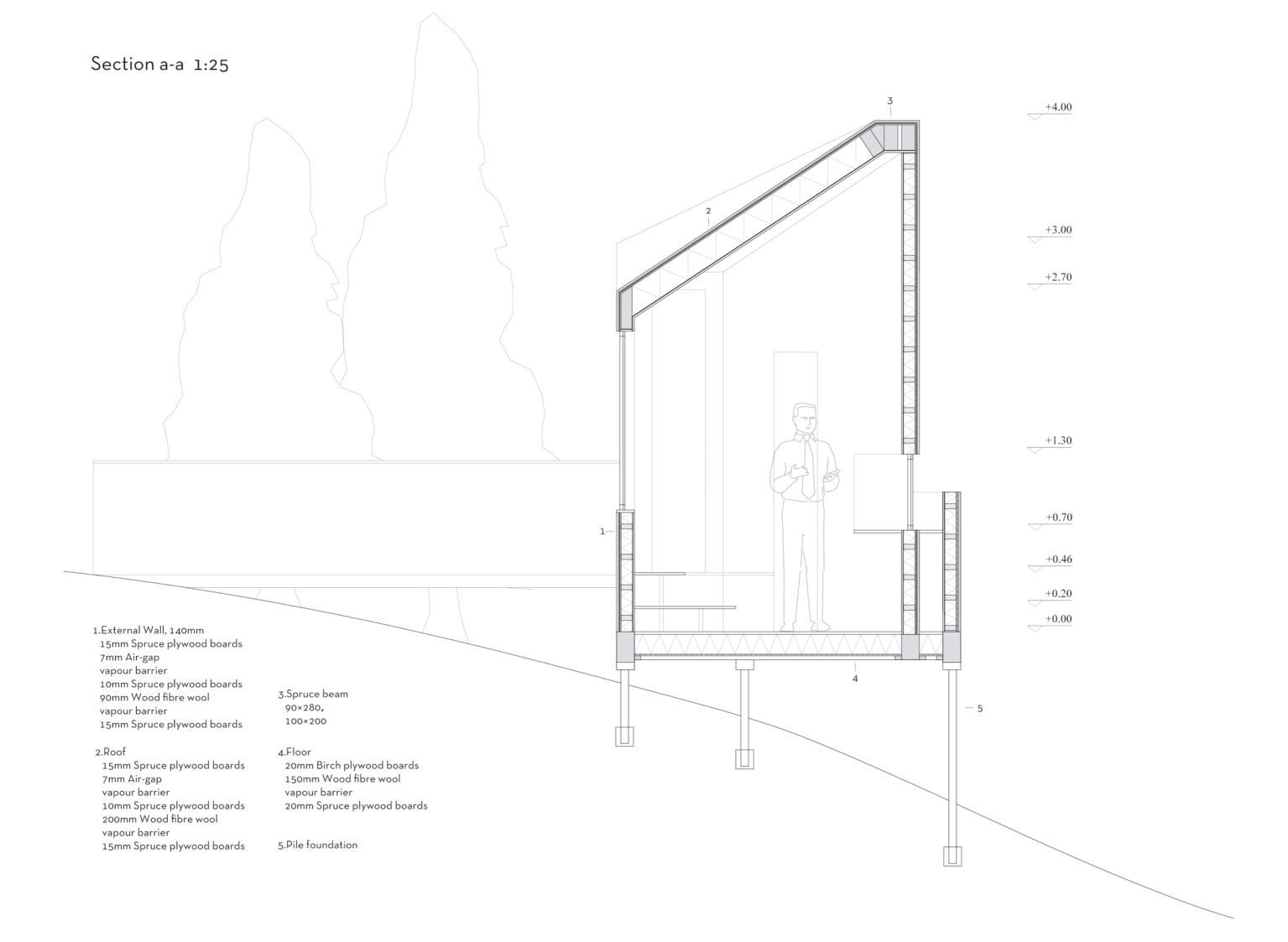
Gallery of House in Balsthal / PASCAL FLAMMER

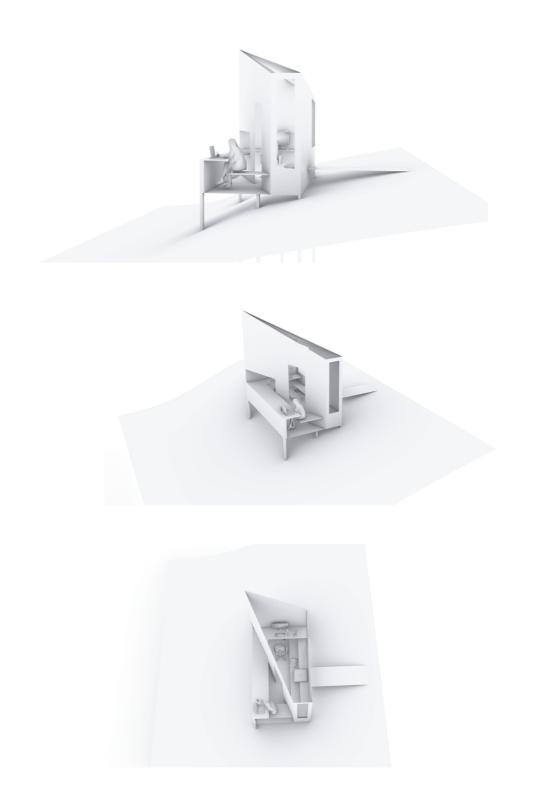


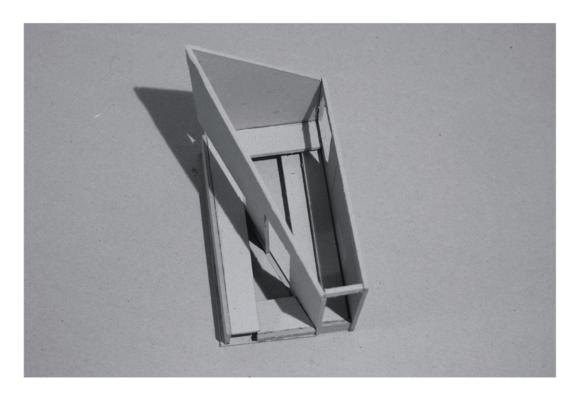


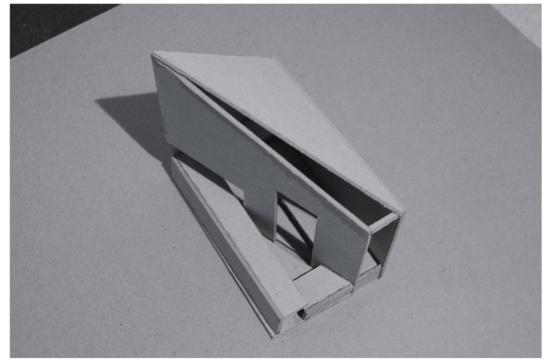
#### 1.Spruce Column

2.External Wall, 140mm
15mm Spruce plywood boards
7mm Air-gap
vapour barrier
10mm Spruce plywood boards
90mm Wood fibre wool
vapour barrier
15mm Spruce plywood boards









How big space do I need for playing?

What facilities do I expect in playing room?

What activities makes me happy?

What function I want if shared with other people?

What makes me feel relaxed?-

SLEEPING

RECREATION/RECOVERY

WORKING

PLAYING/HOBBIES

HYGENE/BATHING

## **PLAYING/HOBBIES**

#### What makes me feel relaxed?

spare time /reading / drawing /cycling /hiking /a hammock /nature/sunlight/activity/play game/ free time/somewhere familiar and chill

## What function I want if shared with other people?

playgame/party/outdoor activities/cooking/crafting+drawing/talking/ singing/ cooking+drinking/ Indoor chess

## How activities makes me happy?

outdoor activities/sports/movement/shopping/ playing card game/watch movies/zone out/do yoga/cooking and eating/listening music

## What facilities do I expect in playing room?

free space/A connection to the outdoor space/ move freely/creative furniture/some comdortable chair

## What other activities am I doing in my sleeping environment?

space to curl up / space to stretch out

## How big space do I need for playing?

larger / sufficient height/reasonable for wanted activity

#### PLAYING ROOM

Privacy/Shared

spare time /reading / drawing /cycling /nature/sunlight/activity/ game

outdoor activities/sports/movement /zone out/do yoga/listening music

free space/A connection to the outdoor space /move freely/creative furniture

space to curl up
/ space to stretch out

larger / sufficient height /reasonable for wanted activity

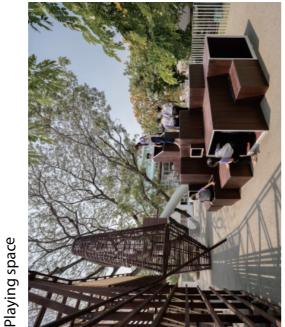
Comments:

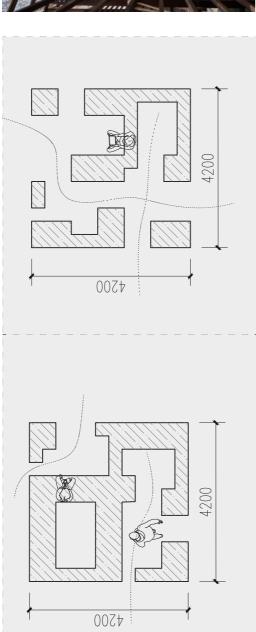
"Analyze the scale of human body and recombine the space of different heights"

"It is suitable for the space of human body scale, and can sit, travel and stand"

"You can touch different heights to meet the needs of different activities."

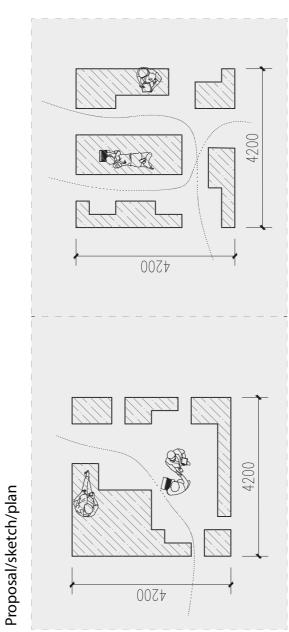
"Increase contact with nature when reading, listening to music , rest and entertainment"

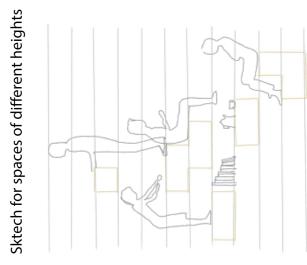


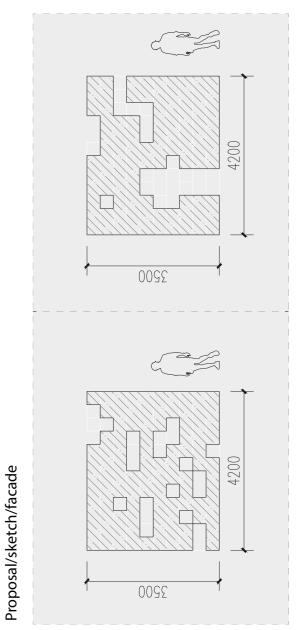


Proposal/sketch/plan









17,64 m2 (4.2m×4.2m)

# **PLAYING/HOBBIES**

adapt tools to space and function

TOOLS:

material, color, location, light, size, tempreture, humidity, acoustics, flexibility, seperation/connection, shape, density

#### **SELF-EXPRESS**

Material: wood,etc Light: full of sunlight Size: human scale

Color: color of nature

Location: conne ction with spatial scale

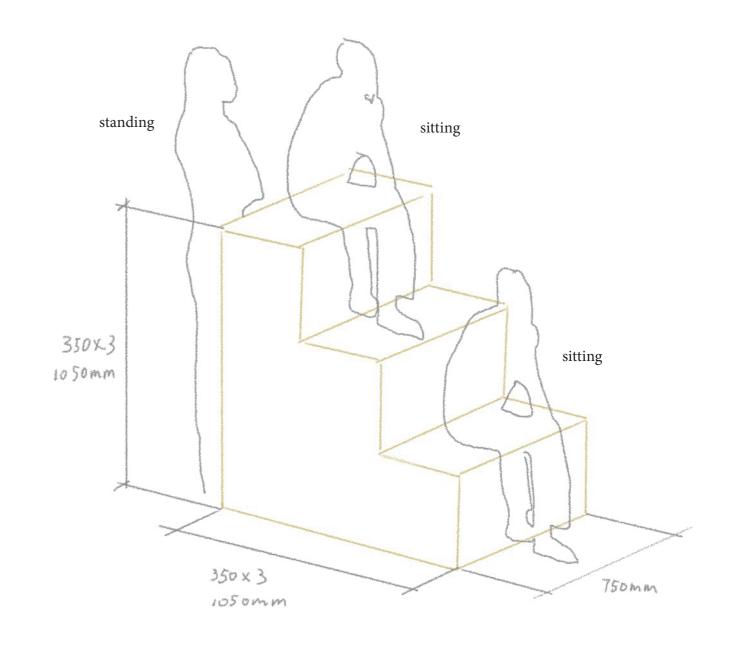
**Temperature:**10-25 **Humidity:** medium

**Sound:**relaxing and pleasant music

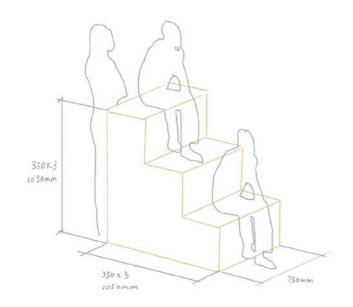
Flexibility: more optional space/nature space
Separation:more nature/connected with nature

Shape:human scale

#### **HUMAN BODY**

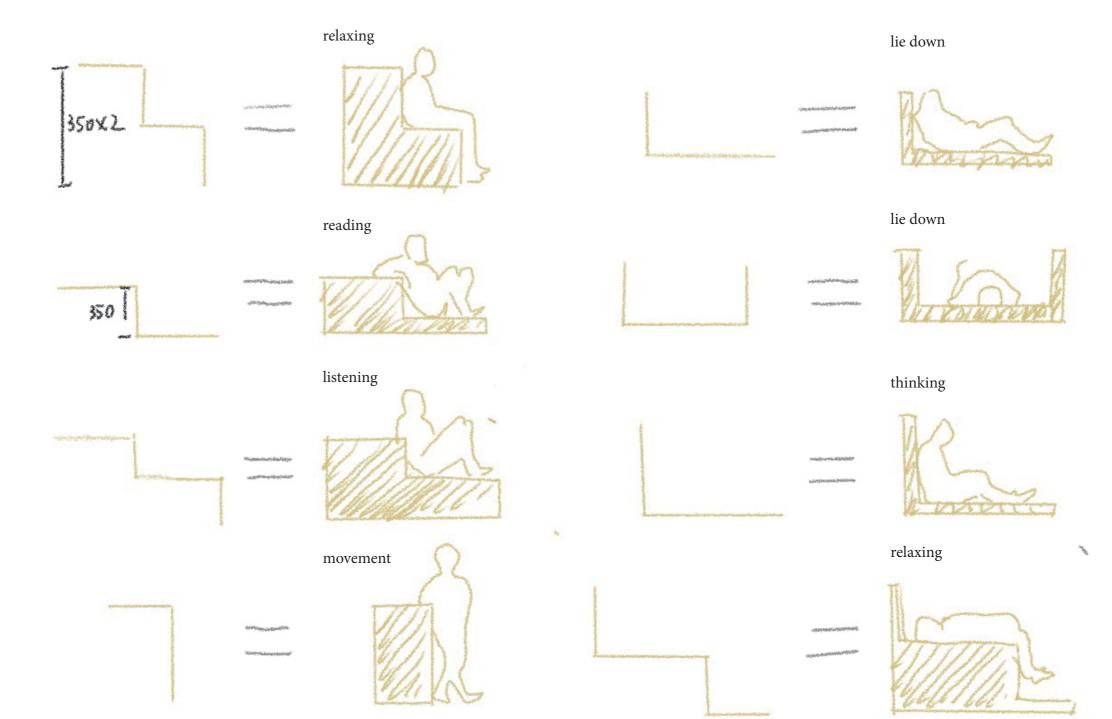


# **CONVERSION**



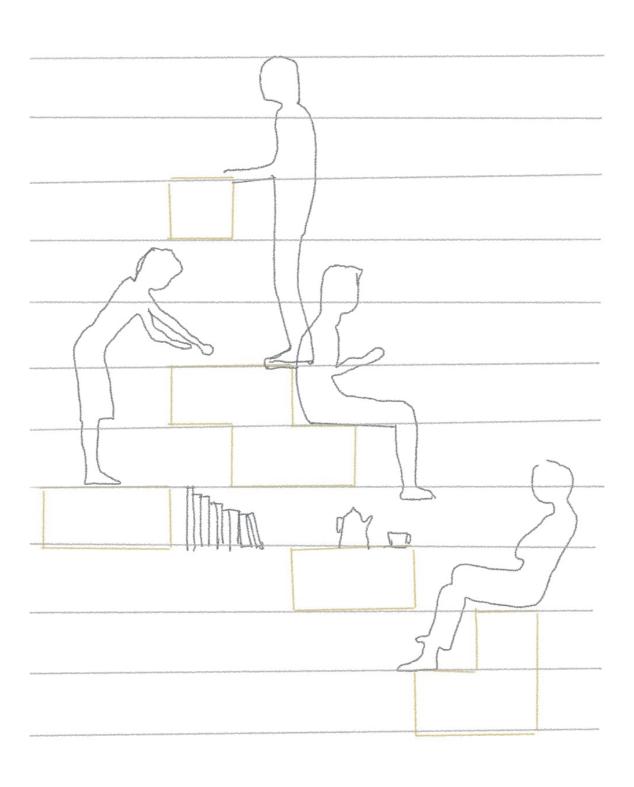


reading
eating
drawing
nature
sunlight
activity
play game
outdoor activities
movement
watch movies
zone out
do yoga
listening music
space to curl up
space to stretch out

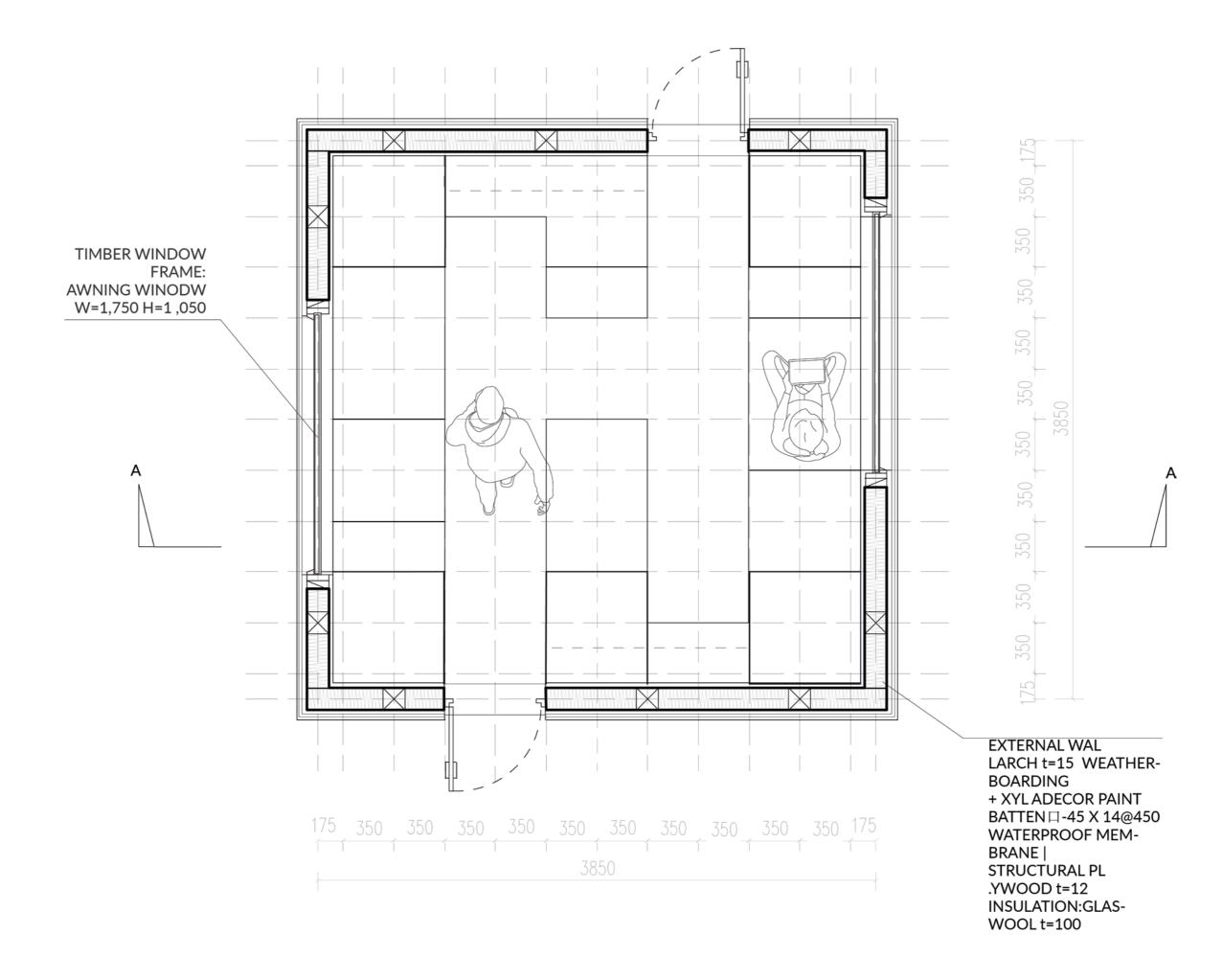


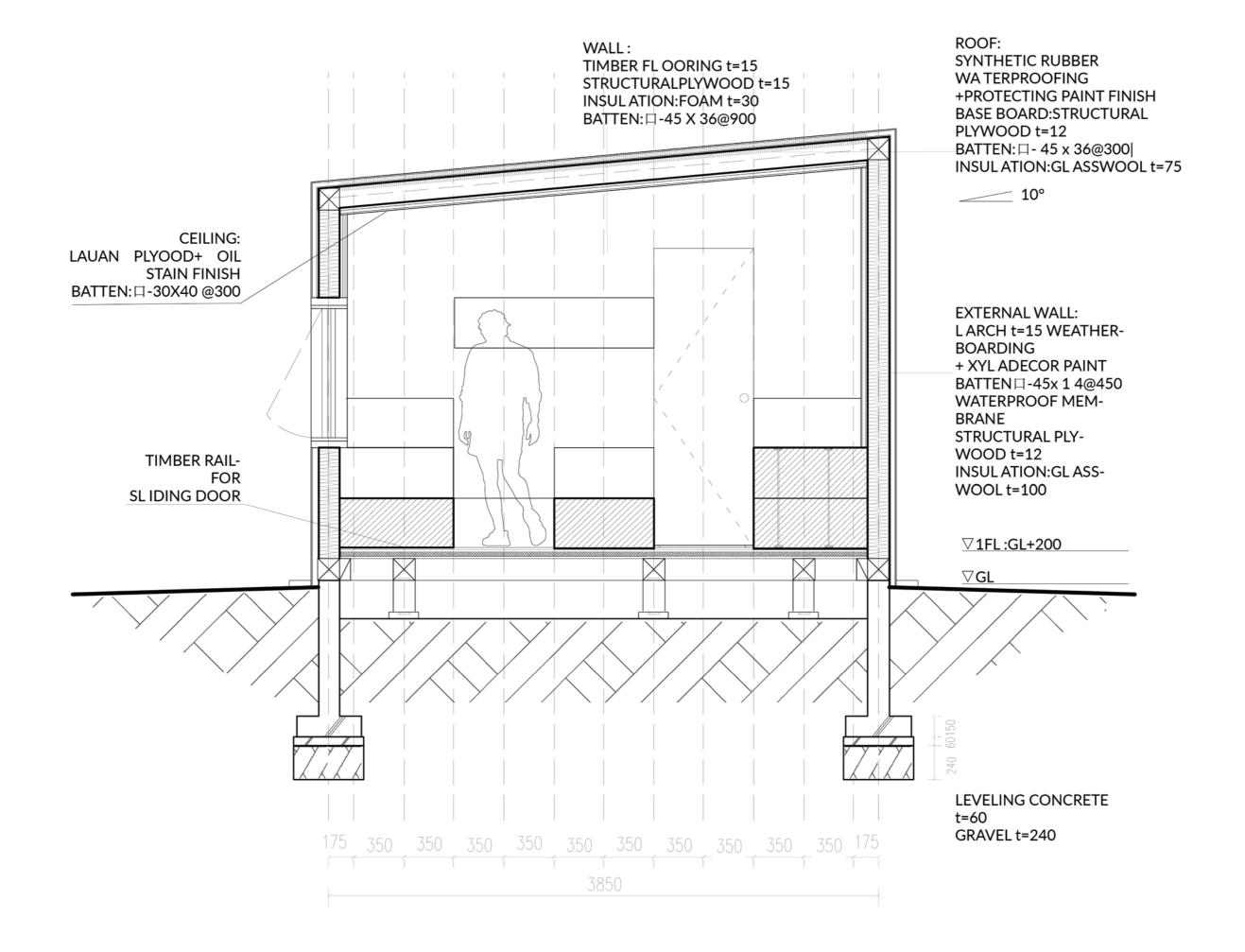
# **COMBINATION**

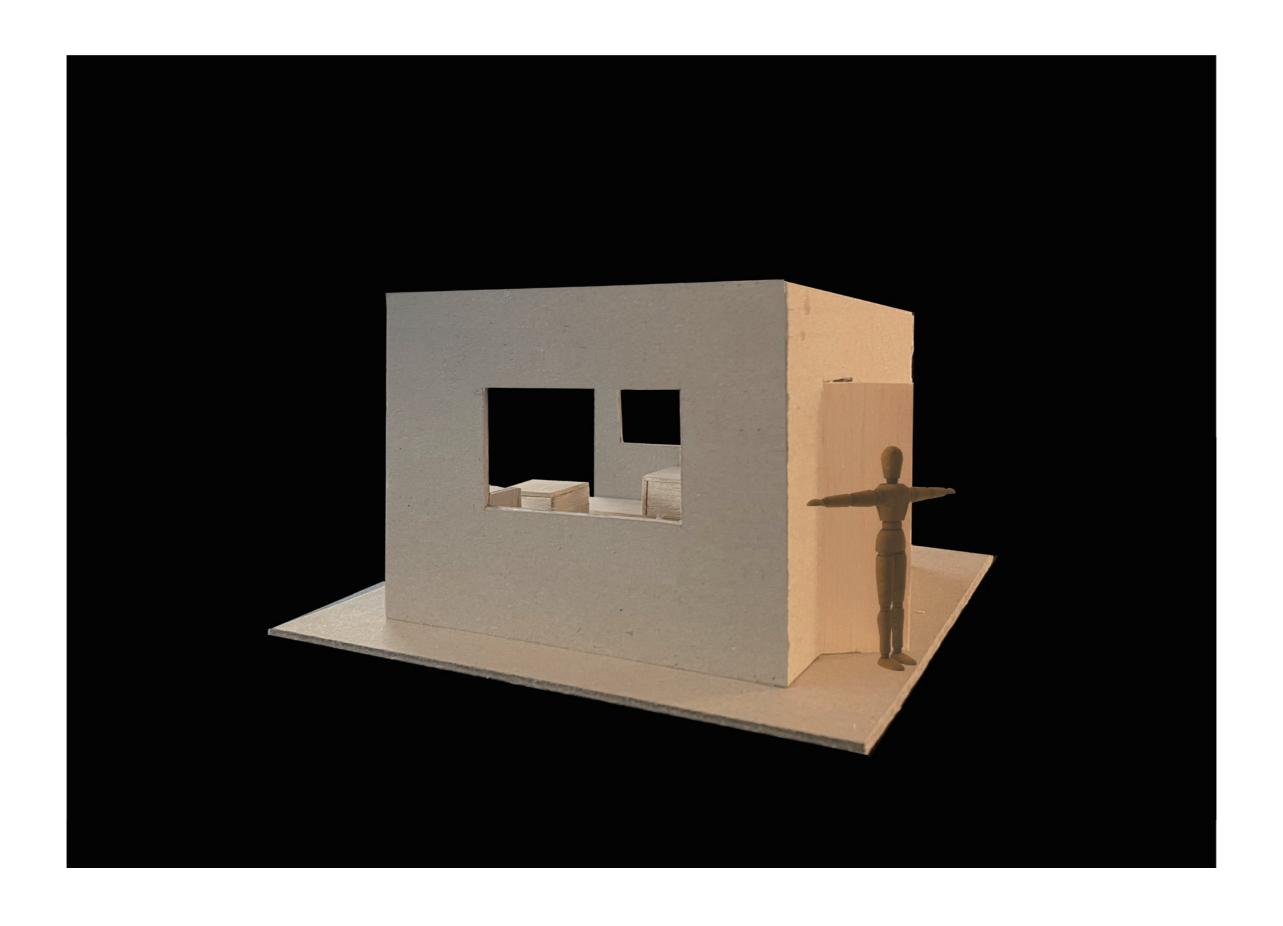
Different height survive activity

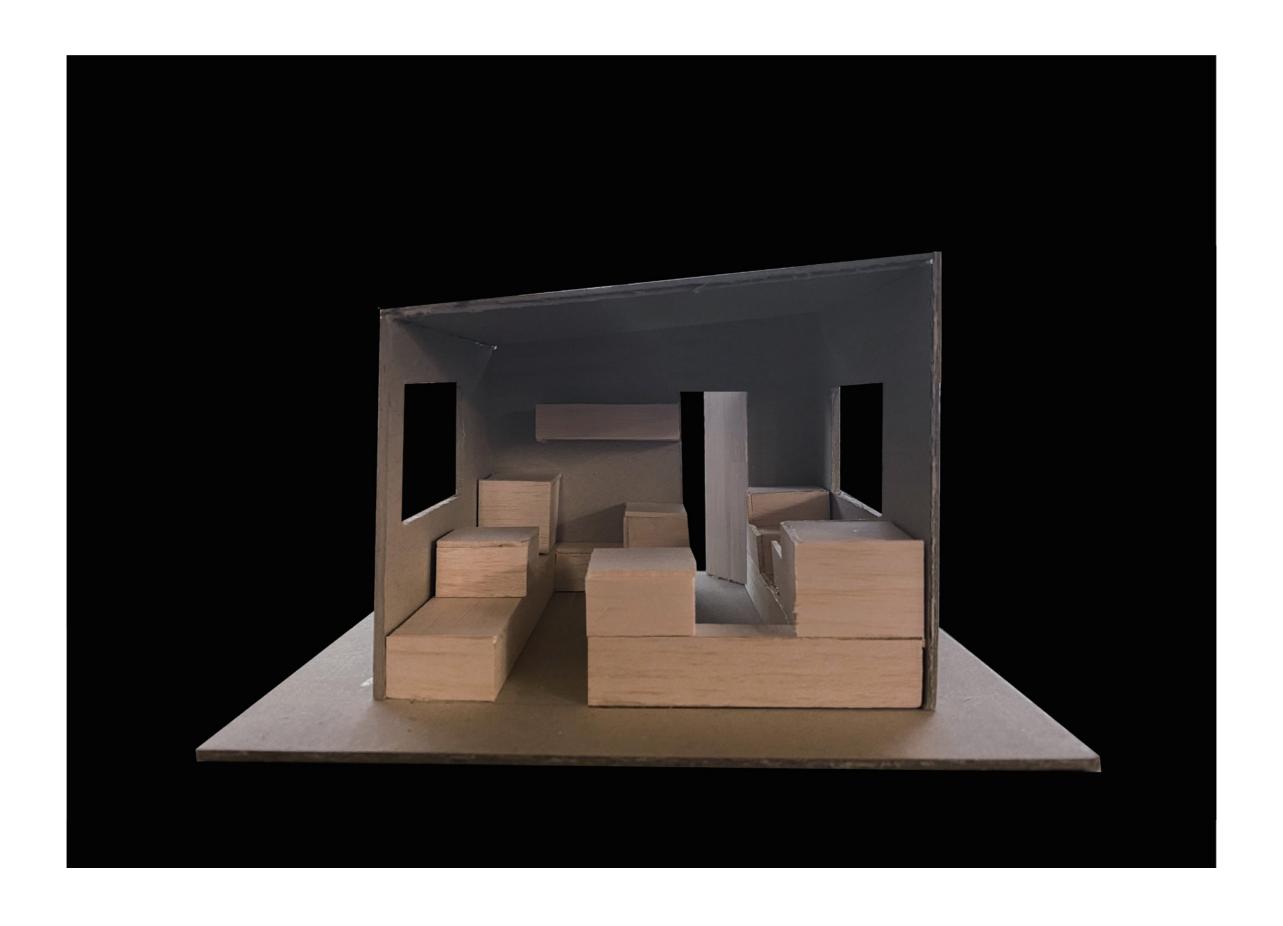


**PLAN 1**: 25









How much privacy do I need?

How often do you take a shower(clean your body)?

What other activities am I doing in my bathing environment?

How much time do I need?

What kind of view you prefer when you take a bath?

How bright should a bathroom light be?-

**SLEEPING** 

RECREATION/RECOVERY

WORKING

PLAYING/HOBBIES

**HYGENE/BATHING** 

Privacy/Shared

Nature(view)

Temperature

Acoustic / Nice Smell

Humidity

Pleasant Light

Relex

Electricity/Gas

Water

Daily <-> Ritual
Private <-> Shared
Cold <-> Hot
Dry <-> Humid
Single <-> Multiple activities

#### Comments:

"I take shower every day... but only spend 10-30mins."

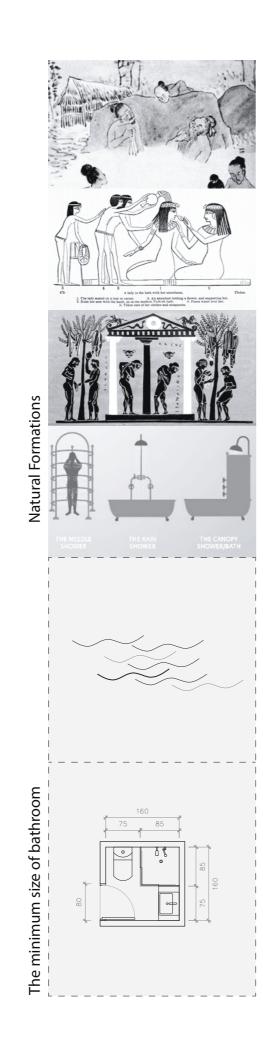
"I thinking about life when I taking shower."

"I usually singing and listen to songs when I take a shower."

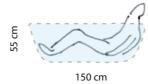
"for myself, can take a bath with people I feel comfortable with."

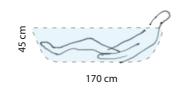
"for myself and no connection with outside."

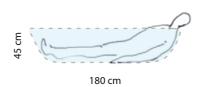
"i like both candlelight for a fancy bath and bright light for other activities"

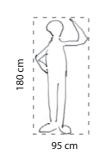


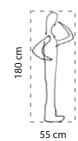






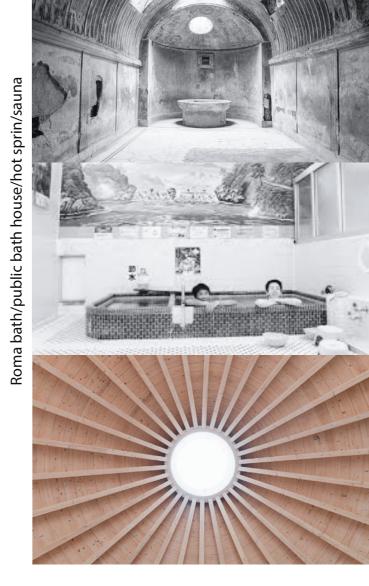








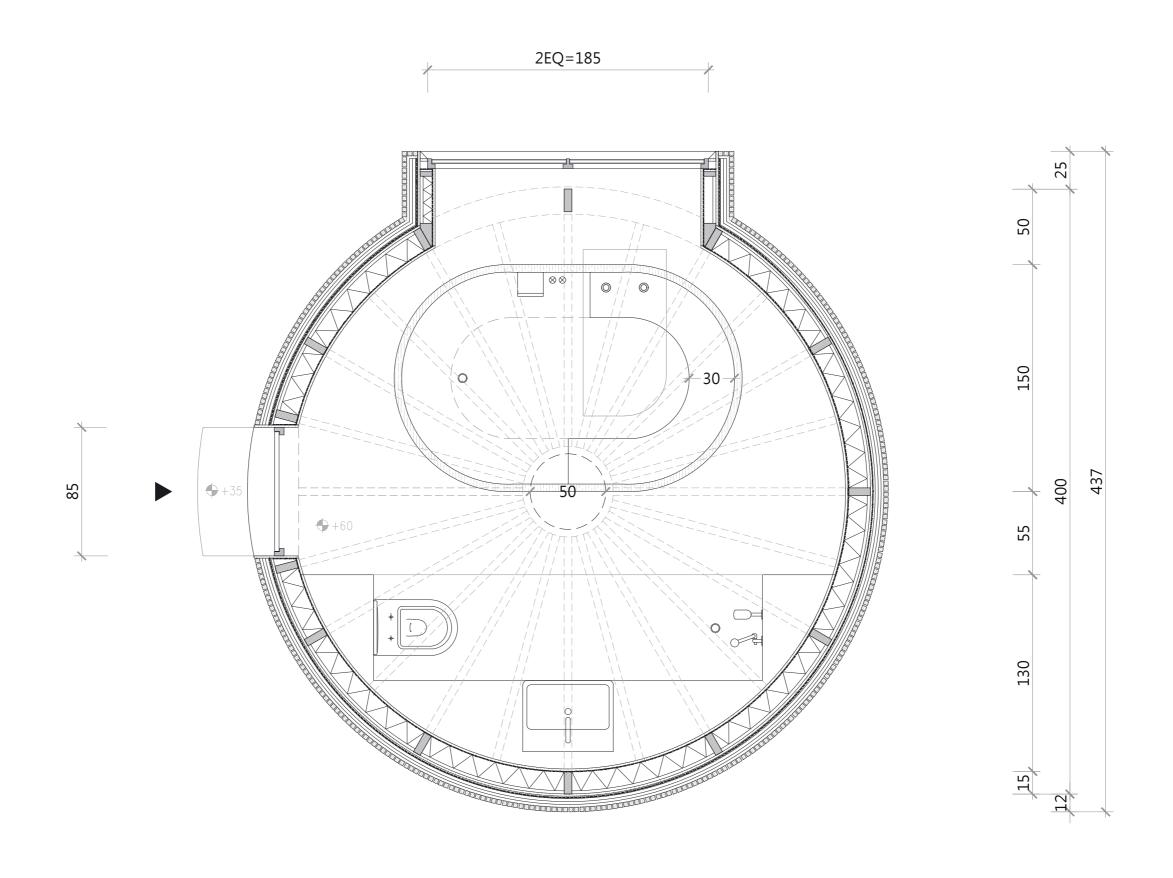
Proposal/sketch

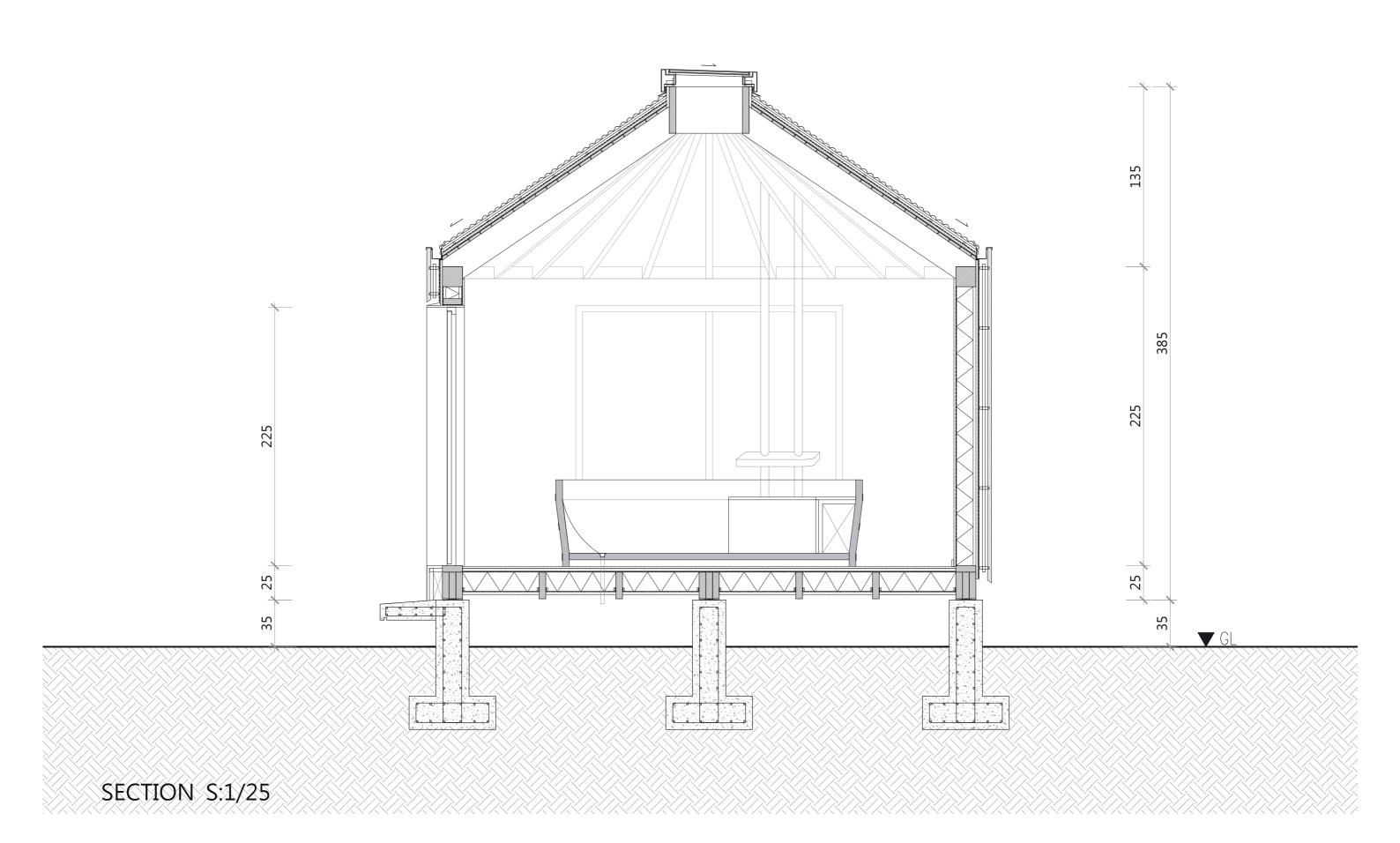


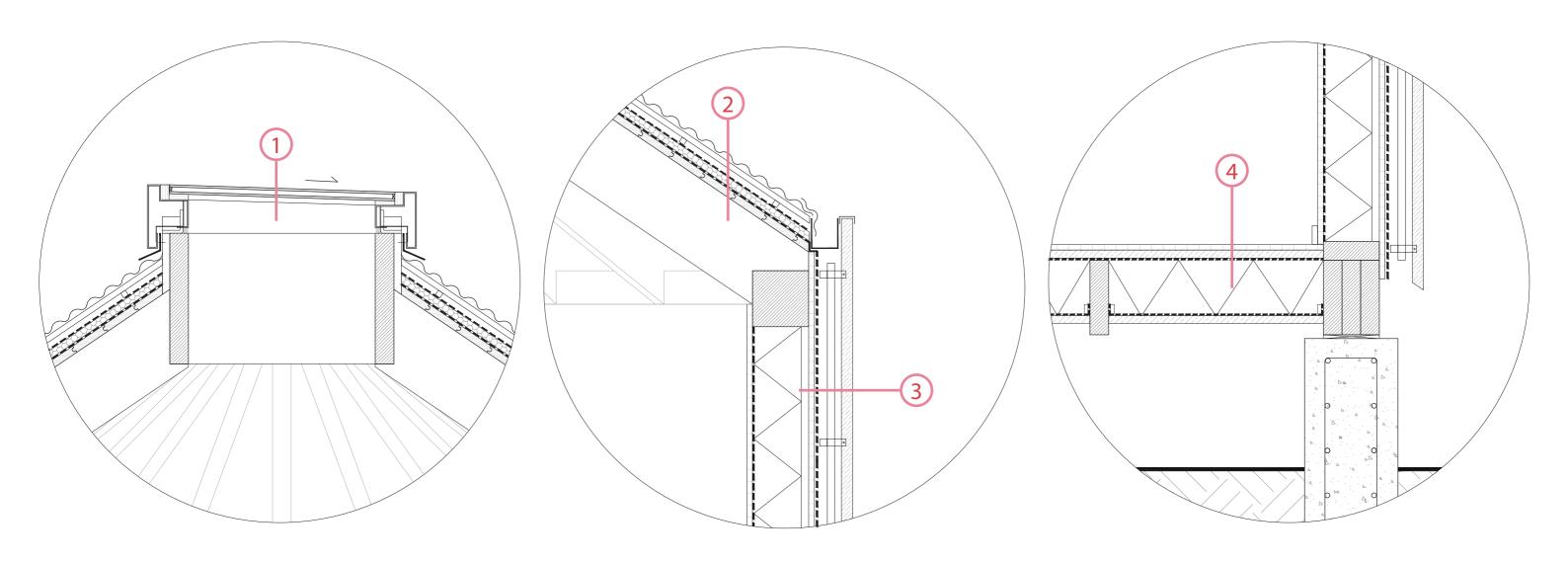




Temperture and heat / wood









Insulating Glass Metal fixings wooden ring beam 2 ROOF

metal sheeting
wood battens
wood distance pieces in short lengths
waterproof sealing layer
Insulation
vapour barrier layer
wood boarding with staggered joints
50/200 mm wooden beams

3) v

WALL

wood strips
Metal cladding fixing method
waterproof sealing layer
sealing layer 19 mm plywood
50/150 mm softwood joists
rock-wool insulation
vapour barrier layer
sealing layer 19 mm plywood

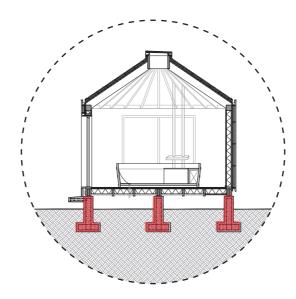


**FLOOR** 

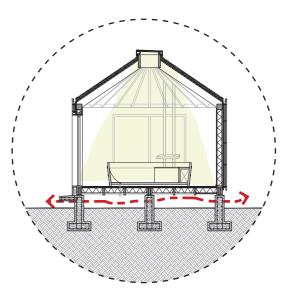
15mm plywood flooring 20mm chipboard waterproof layer 150 mm rock-wool insulation 50/200 mm softwood joists wind barrier layer 15 mm fibreboard



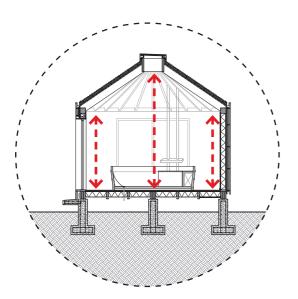
1. Use natural materials.



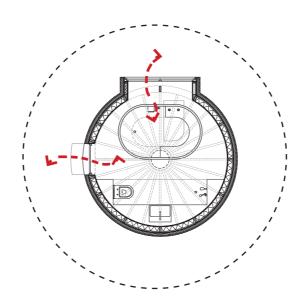
2.Consider a minimal footprint.



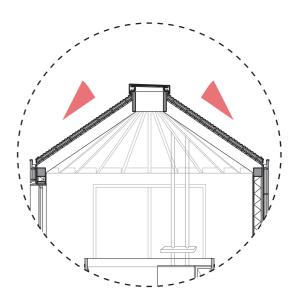
3. Make use of natural light and a natural airflow.



4. Create a shape that allows for different functions & movement.6. Work with different heights to achieve different feelings.



5. Allow for outdoor extension. / Relate to outdoors.

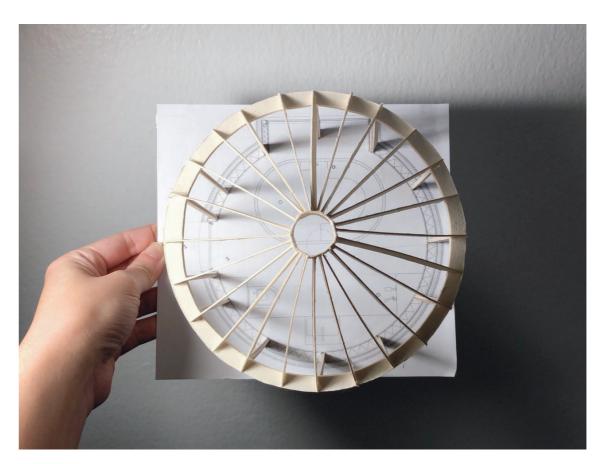


7. Use a tilted roof.









What is a good space for eating?

What facilities do I expect in my cooking environment?

What other activities am I doing in my cooking environment?

How much privacy do I need?

How much space do I need to share it with other people?

What does my relationship look like about eating / cooking?- -

SLEEPING

RECREATION/RECOVERY

WORKING

PLAYING/HOBBIES

**HYGENE** 

Privacy/Shared

Calm

Embracing

Effectivity

Temperature

Pleasant Light

Socialize

Acoustic

Electricity

Ventilator (fresh air, no smell)

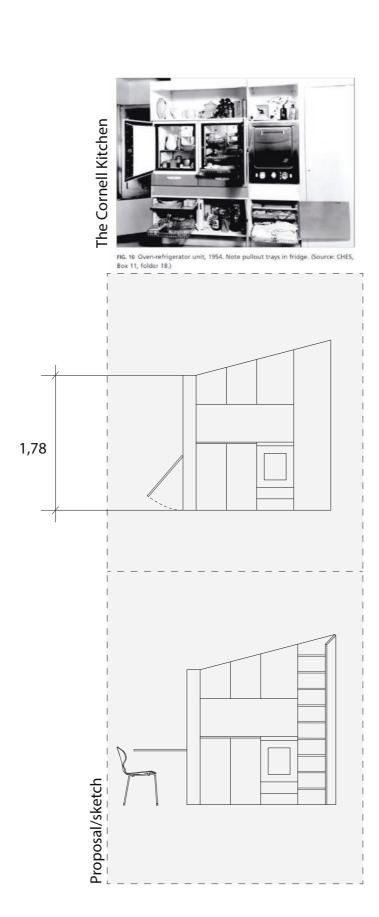
Comments:

"access to chair and table, embracing and not centered in the space"

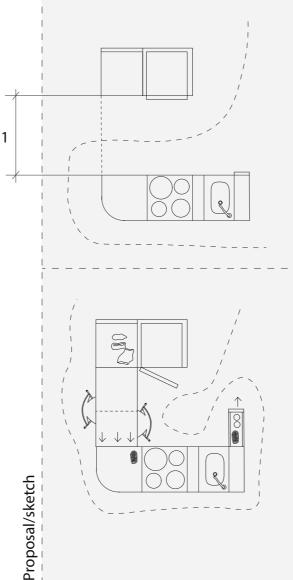
"I don't need privacy when I cooking but i would like to have some cover or window to separate the cooking smell with other space where I living in."

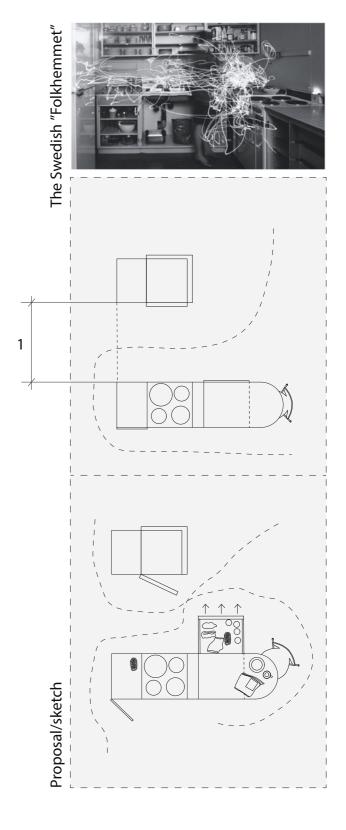
"In the morning I need more privacy (the space can be shared with other if I have access to a personal space)"

"Easy to clean, not crowded, can eat while watching TV or scenery"









4,5 m2 (2 m2 walk space)

