

general principle and requirement for a living space:

Natural / artificial light Where does it come from? How much intensity do I need?

Color of lights and spaces Which colours suit my function? What feelings do they transmit?

Temperature What is the best temperature for the activity I have to carry out?

Humidity What is the best humidity for the activity I have to carry out?

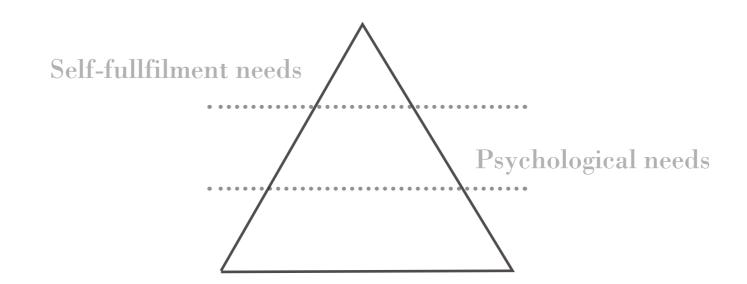
Contact with nature and environment How can I be connected with nature? Only by seeing?

Minimise tecnic use

How can I reduce movement with good design?

Activate different senses How can I create a space that involves all the senses?

Natural materials How does it look? How does it feel? What temperature does it have?





















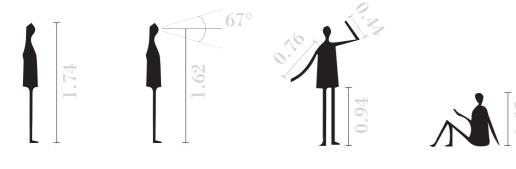
with:

how:

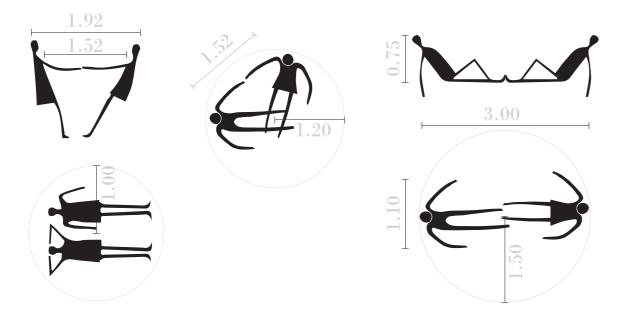
People		misurament / visual / touch / online
Environme	nt	air /view / immagination
Your soul		light / colours / atmosphere
Nature		be outside/ bring it inside
Space		spatial shape / materials / texture
Sounds	••••••••••••	acoustic performance / materials and dynamism

people:

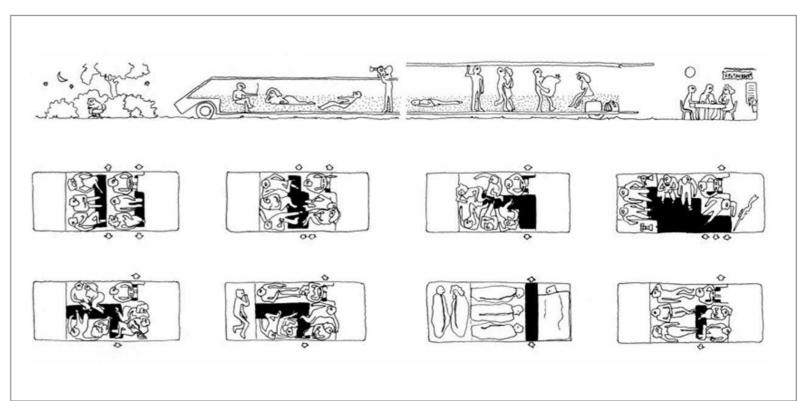
body measurements



body positions



What position do I want to be in?

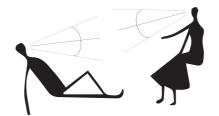




people:

eye contact





physical touch:



What I want to see?
How do I want to get in touch?





your soul:

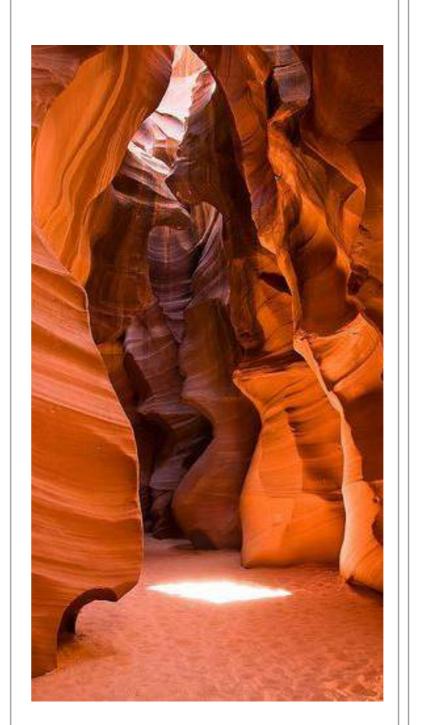
atmosphere:

What atmosphere do I imagine for an interaction space?

What helps me feel good?

Which spaces transmit feelings of free expression?

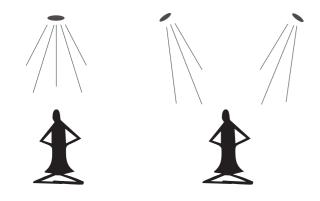
Upper Antelope Canyon, Navajo, Arizona, USA
Autumn and sun _ from Pinterest



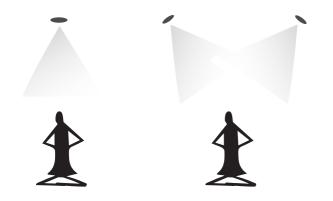


your soul:

light source: from the top



light type: diffuse, reflected



Kimbell Art Museum, Fort Worth, Texas (1972), Louis Kahn Menil Collection a Houston, Texas (1986). Renzo Piano





your soul:

https://www.archdaily.com/934845/how-color-tunable-lighting-improves-productivity
Sala Beckett, Flores & Prats, Barcellona, Spain

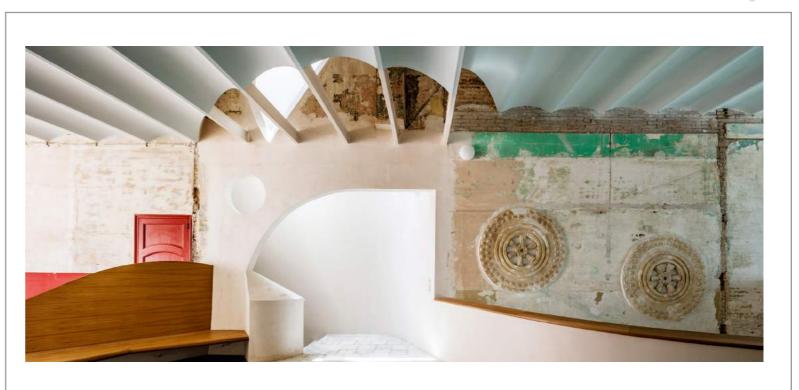
light color: neutral, soft white, warm

from 2700 K to 3500 K

What do you feel?

color : warm _ from light orange to dark orange
 relaxed _ from purple to light blue
 natural materials

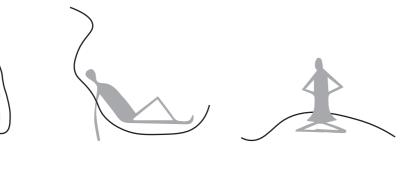
Can you feel relaxed, protected, serene, embraced?



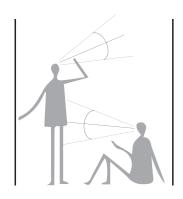




welcoming shape: adapts to the body



boundaries



maintain concentration

feel protected

tactile materials

UTAA, Rest hole in the University of Seoul, South Korea Perspectives, Giles Miller Studio, Surrey, United Kingdom





sound:

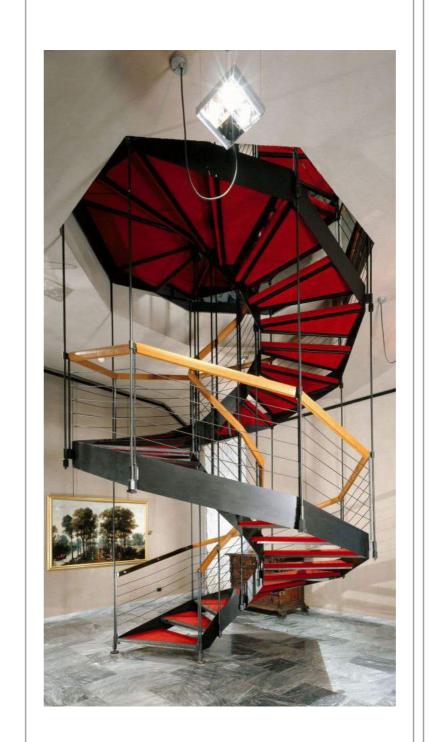
human interaction with materials



dynamism: sound, object movement



Does interacting with the space help me to feel part of it?





Showroom Sisii di Yuko Nagayama & Associates

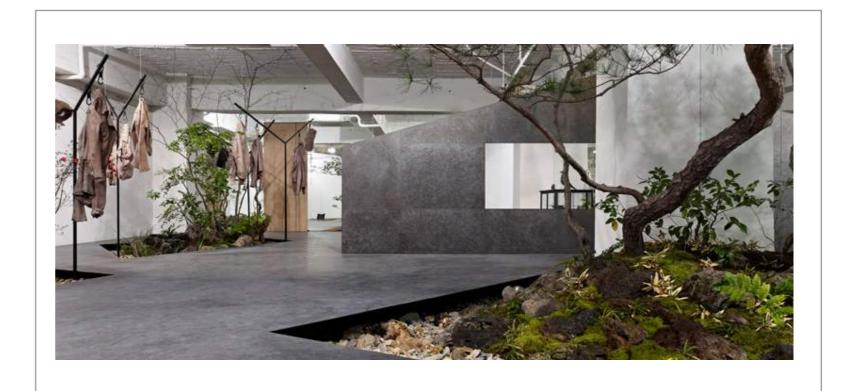
nature:

be outside bring it inside



plant species:

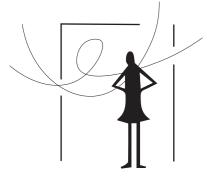
- Lingua di Suocera (Sansevieria trifasciata 'Laurentii')
- Ficus (Ficus benjamina)
- $\hbox{-} \ Crisantemo\ (Chrysantheium\ morifolium)}$
- Aloe (Aloe vera)
- Dracena (Dracaena marginata)
- Dracena (Dracaena deremensis Warneckii)





environment:

air : good air circulation



feelings of contact with the environment

immagination

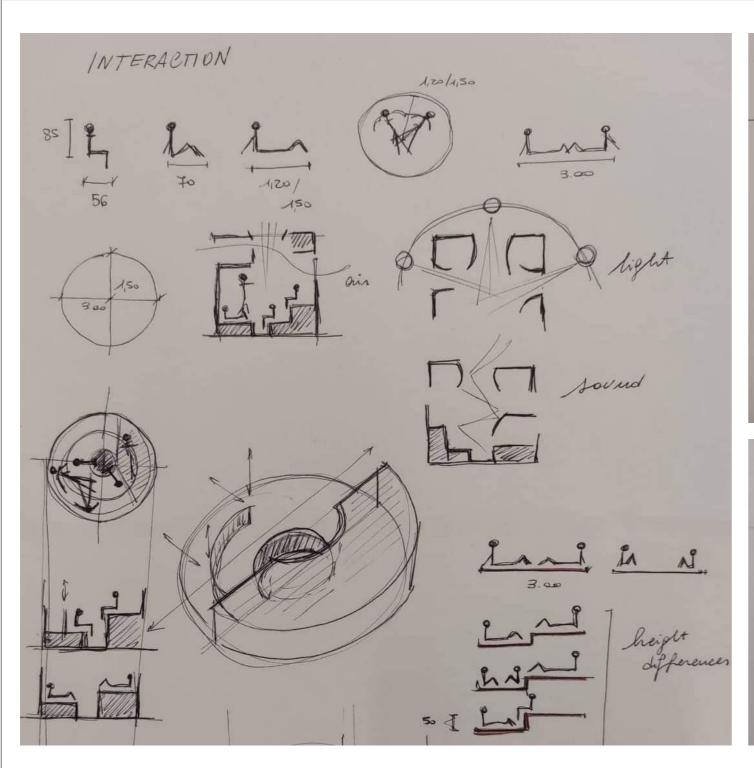
Does only physical contact help to interact with the environment?

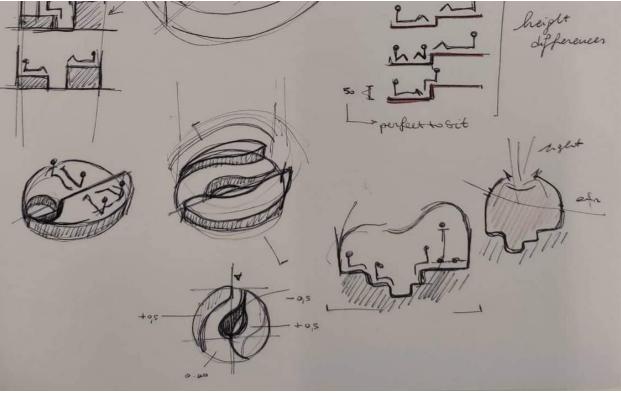
Giant Wooden Megaphones Amplify The Sound Of Nature In The Forest, by interior architecture students from the Estonian Academy of Arts

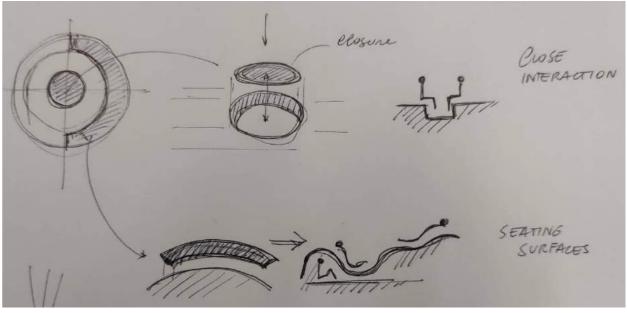




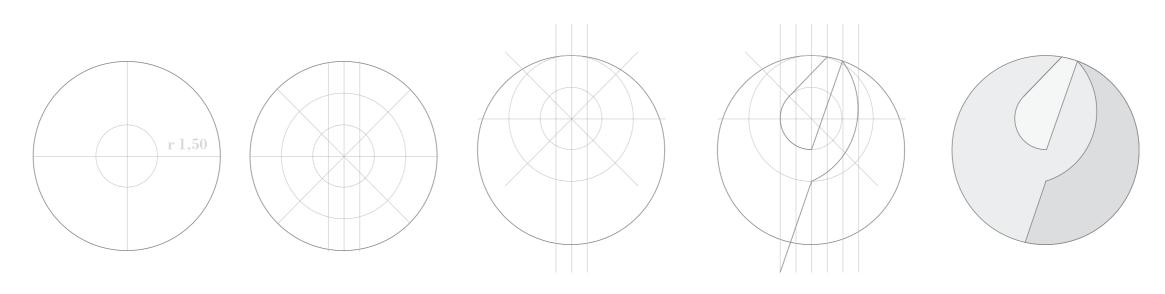
skatches:

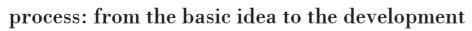


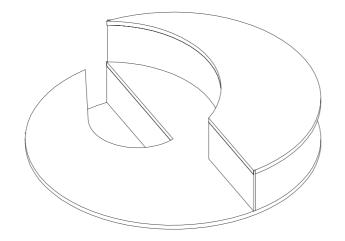


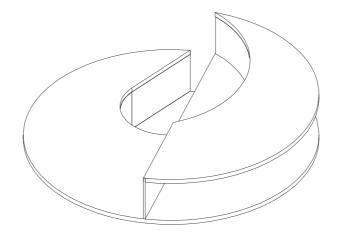


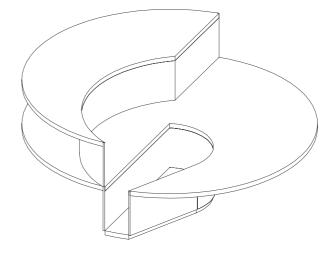
first idea:





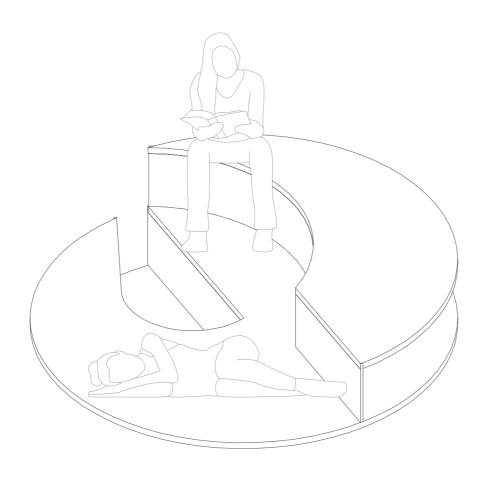


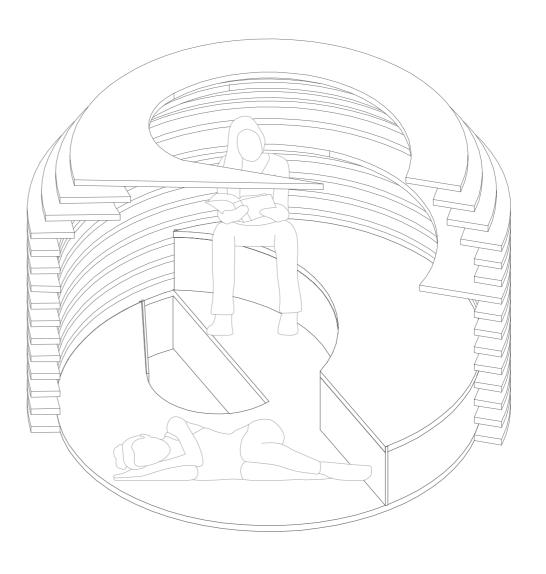




first idea:

drop platform and protective casing, which can also be used as a space configurator



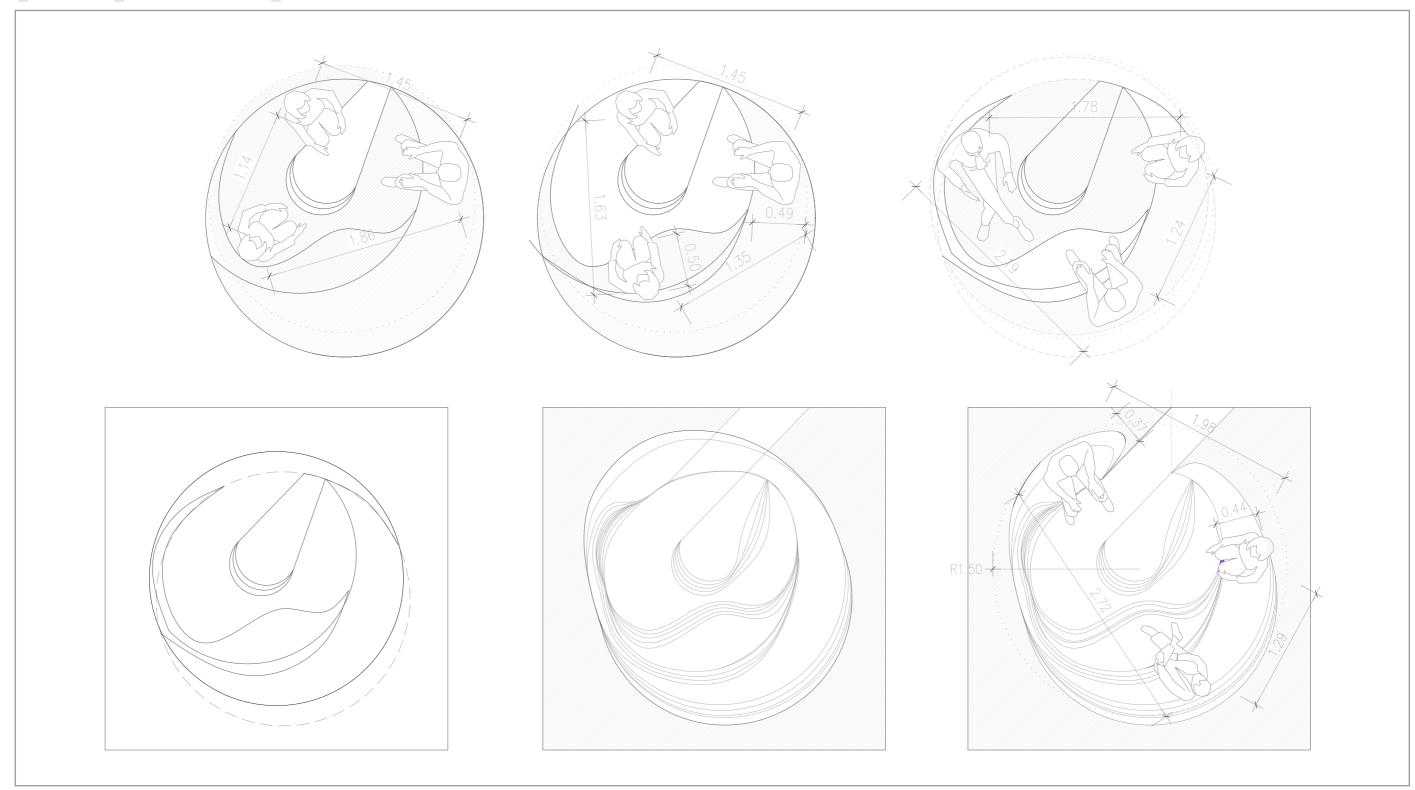


starting with the study of people and possible positions

people & space:



people & space:

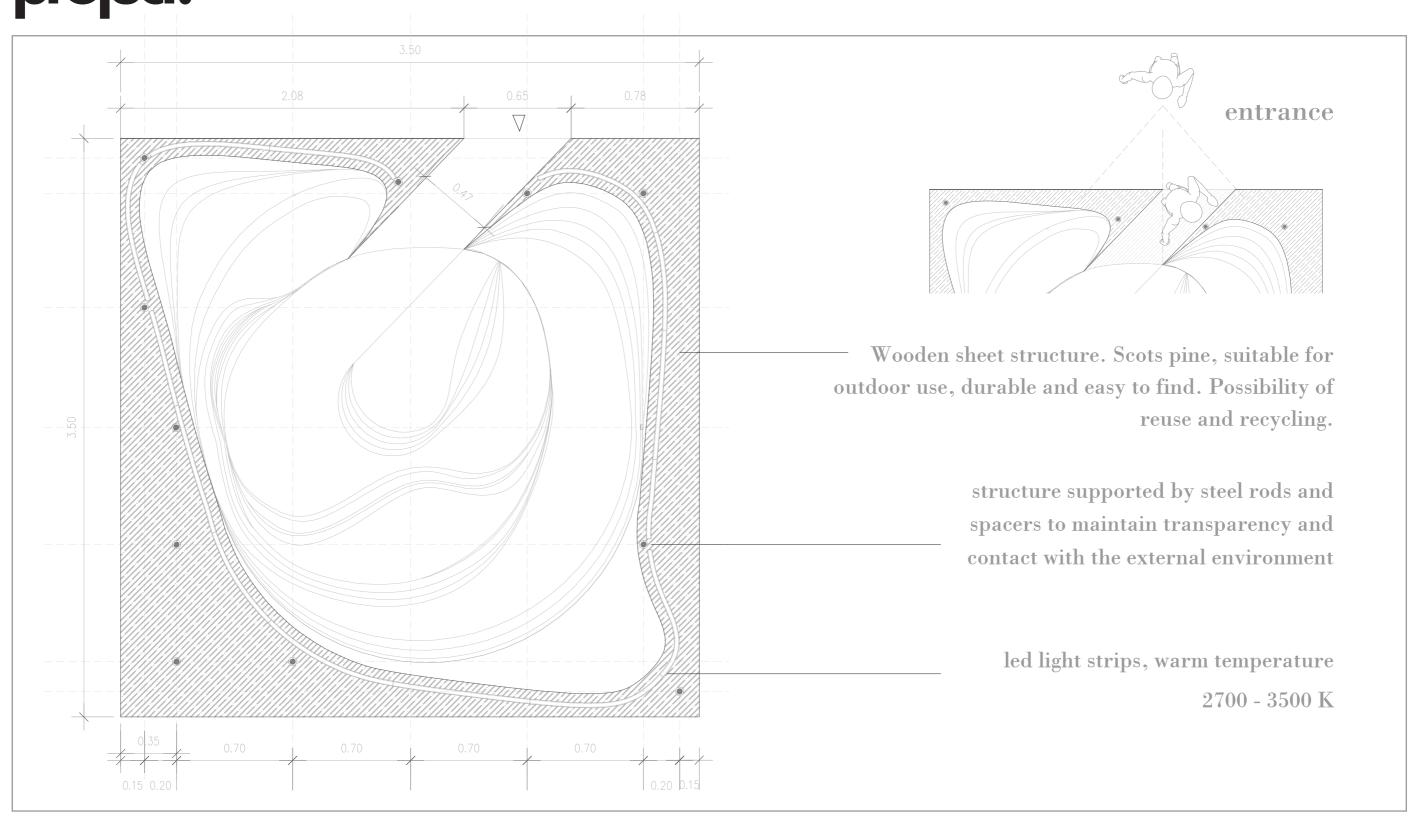


2 kind of interaction:

the space can be used by three people at the same time and everyone is free to interact in their own way

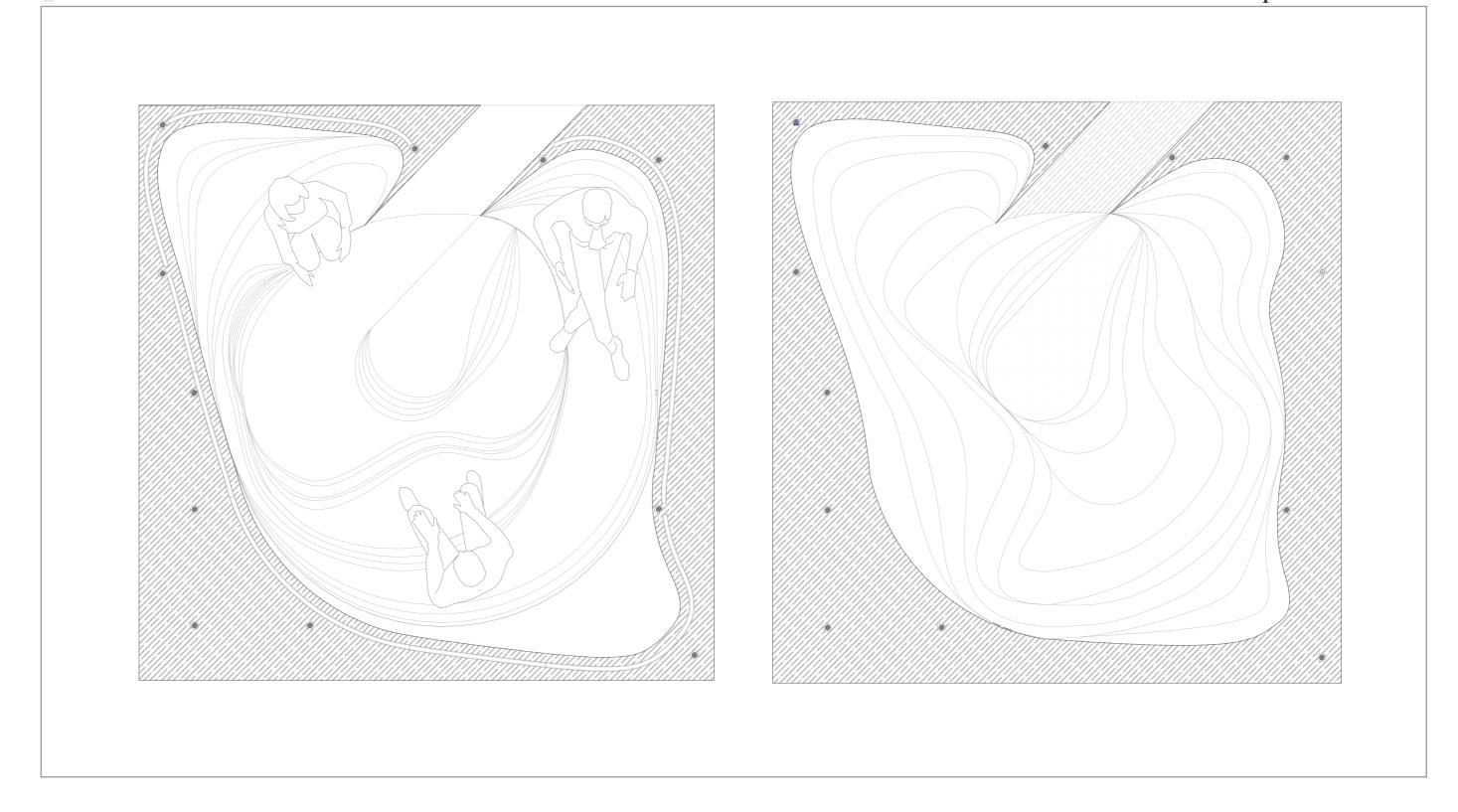
intimate interaction $_$ R0.80 m cognitive interaction $_$ R1.35 /1.50 m



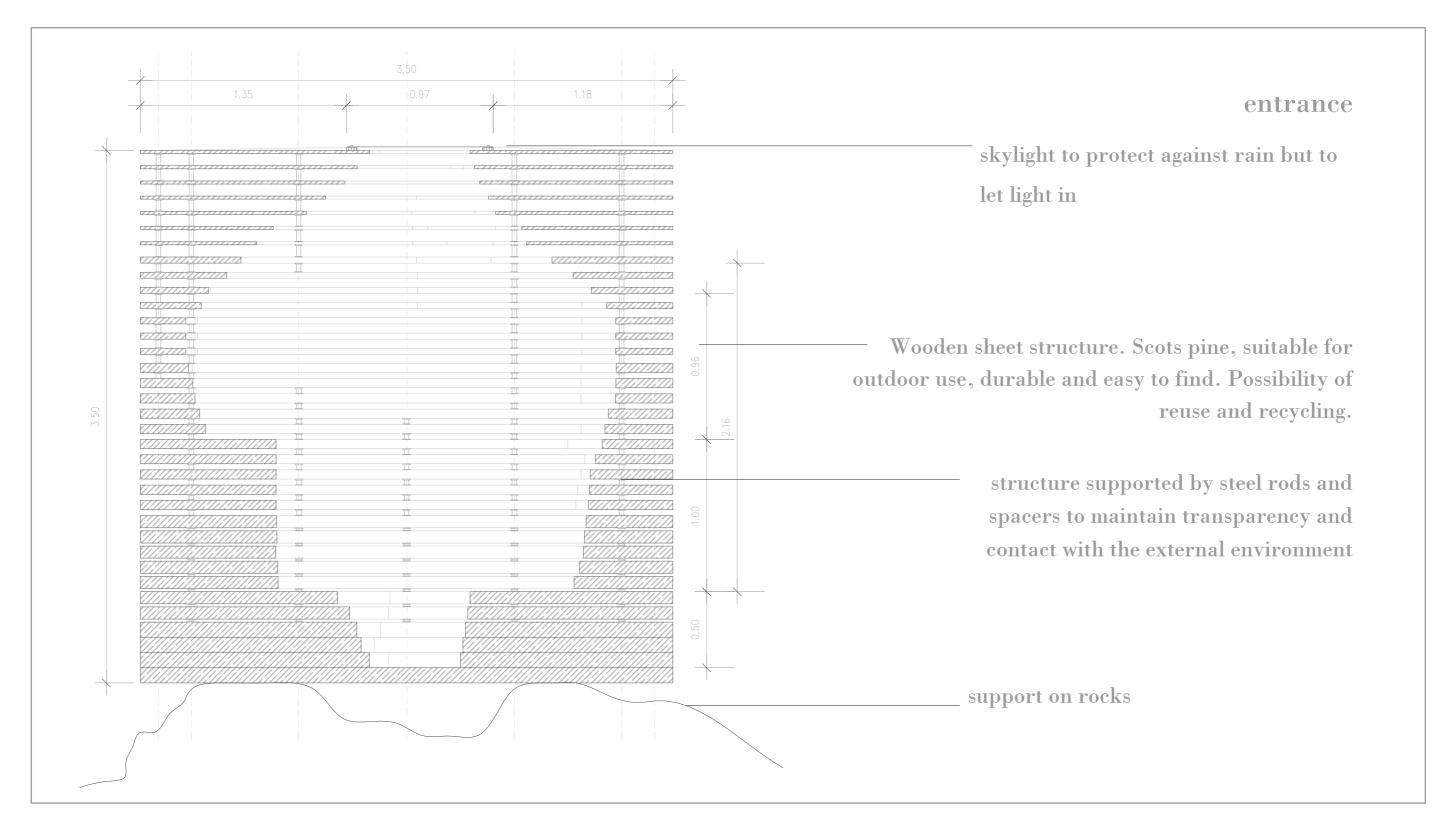




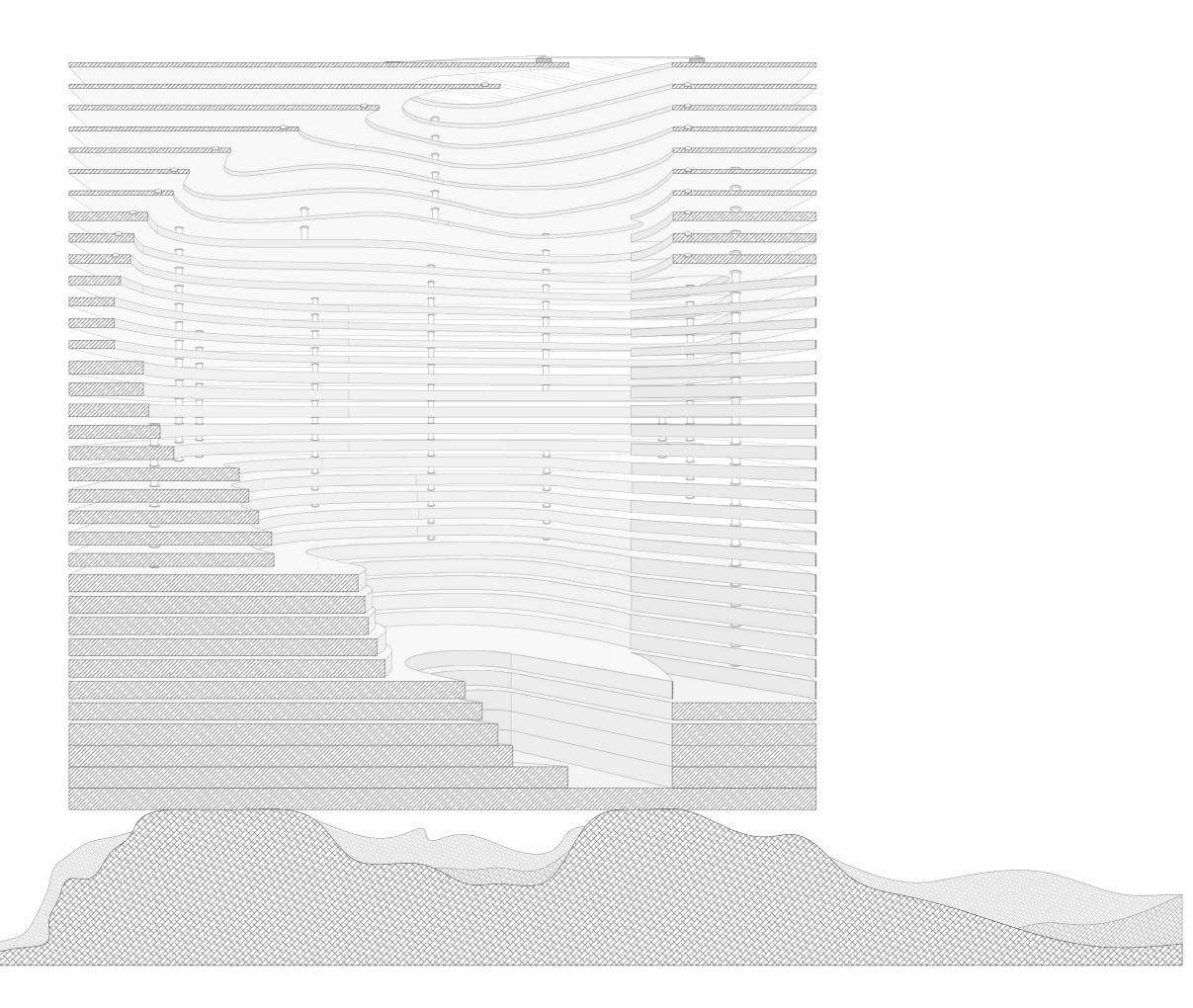
upwards at $1.90~\mathrm{m}$



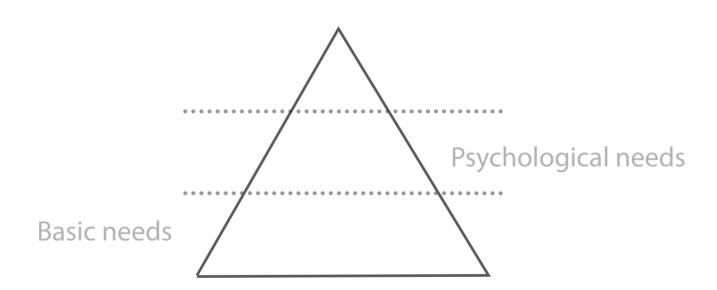








Sleeping





Basic Needs

SAFETY

water: a bottle of water electricity: power outlet

breath: smooth breathing (humidity/oxygen/fresh

air)

warm: good temperature for sleep(18-20°C),mattress, quilt and sheet, curtains

Psychological Needs

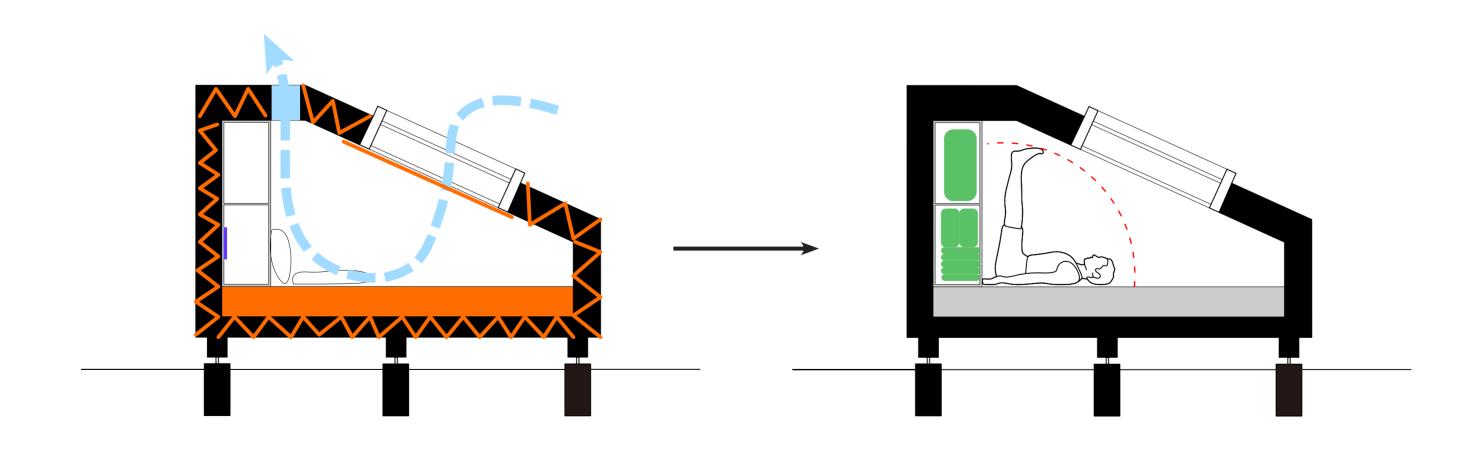
FEEL COMFORTABLE

position: lying, sitting, yoga, reading

warm: adjustable temperature and different types of

quilts, rugs

storage: for sleepinmg clothes and quilts, rugs space to move: move space beside the bed



Basic Needs

NO DISTURBING

sound: low noise

light: summer/ noon sunlight shading

Psychological Needs

IN GOOD MOOD

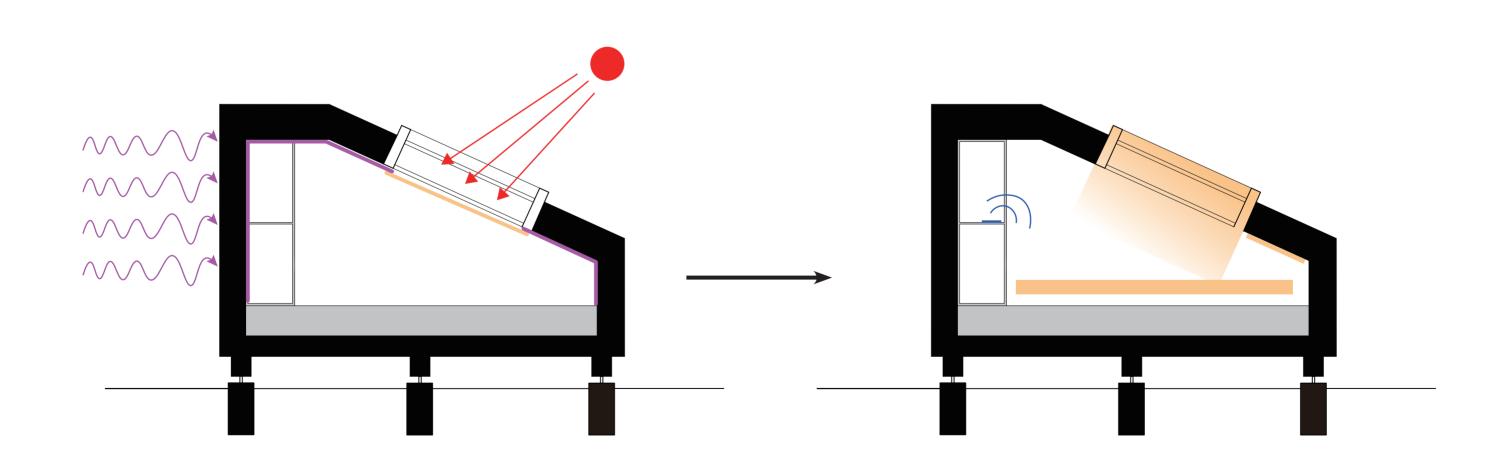
sound: white noise and light music

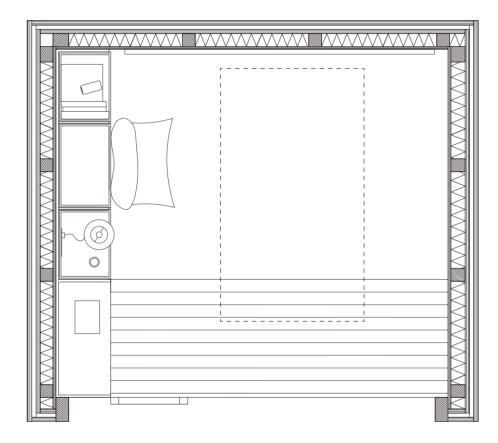
light: artificial light, natural light

smell: sleep-conducive smells

color: light blue color

communication and entertainment: cellphone





Α

PLAN 1:25

1 wall construction

24/148 mm wrot untreated larch tongued-andgrooved boarding on 28/48 mm battens; 24 mm plywood; 75mm thernal insulation; vapour barrier; 9 mm birch plywood;

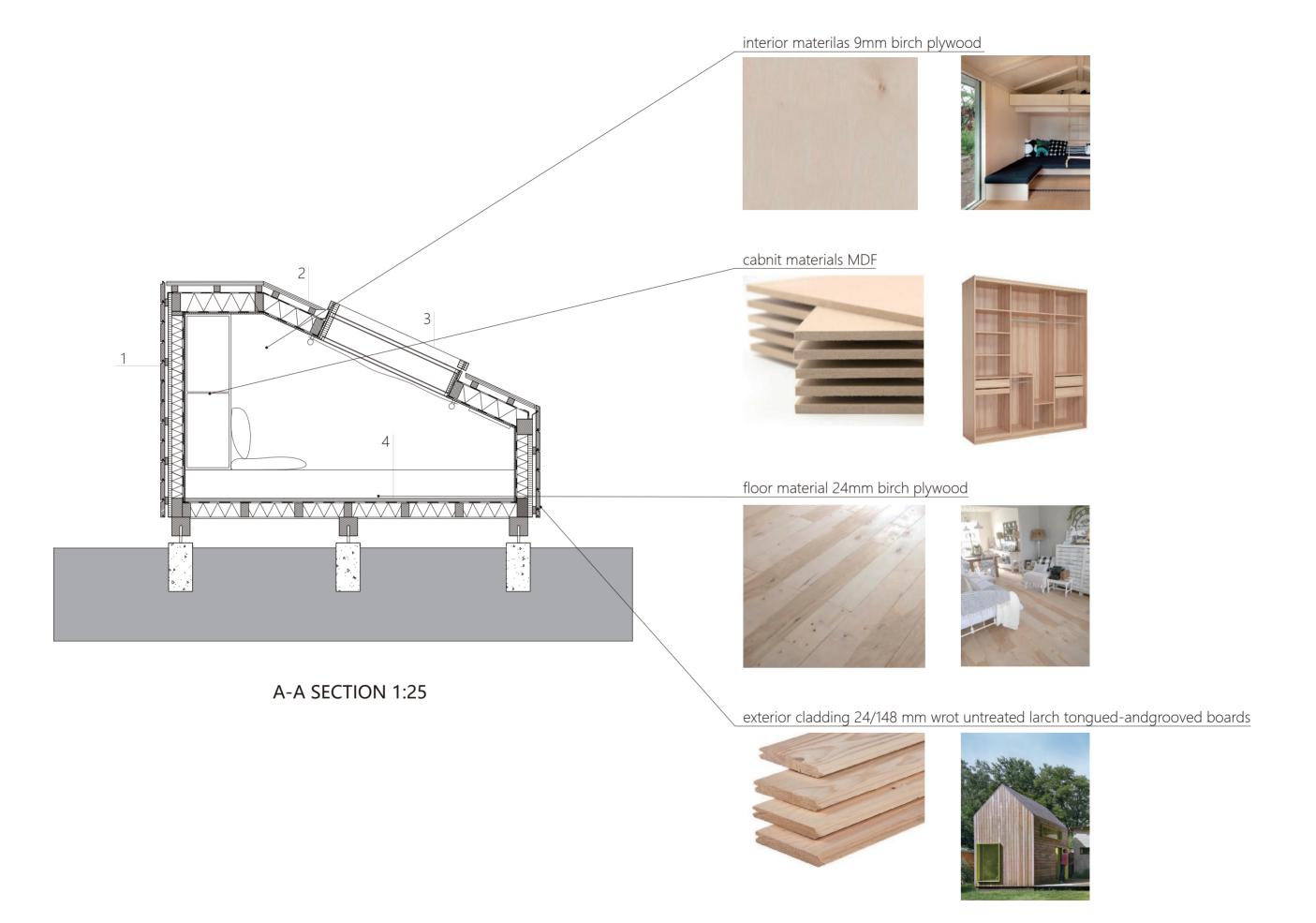
2 roof construction

24/148 mm wrot untreated larch tongued-andgrooved boarding on 48/48 mm battens; bituminous roof sealing layer; 125 mm mineral-wool thermal insulation; vapour barrier; 9 mm birch plywood;

3 window construction

double glazing: 2* 4 mm float glass + 12 mm cavity; Blackout curtains;

4 ground floor construction 24 mm birch plywood, varnished; vapour barrier; 48/125 mm battens; 125 mm mineral-wool thermal insulation; 6 mm plywood (caseboard);























good digestion:

minimize stress

- nature
- away from working space, ..
- enough time

straight pelvis

- brings chin into the best chewing-position
- best position = floor sitting

minimize distractions

- tidy place
- no tv or sth. similar

atmosphere:

not feeling alone:

- outdoor impressions(visual relations, outside people)
- audio book/podcast

soft distractions:

- concentrate on eating but not feeling alone
- not too quiet(just hearing yourself chew)



lighting:

evenly lighted table

- no blinding

natural light:

 use it as good as possible to support the biorythm

artificial light:

- imitate the natural light
 - breakfast: blue (activates)
 - lunch: getting warmer
 - coffee: more blue(when activation needed)
 - dinner: warm light (distressing)

adaptation:

1-x guests

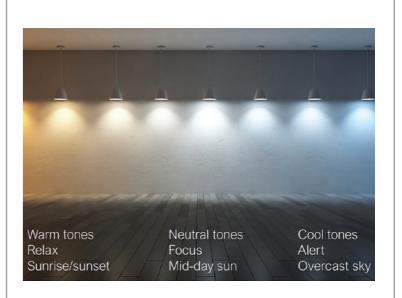
- pillow sitting (minimize materials)

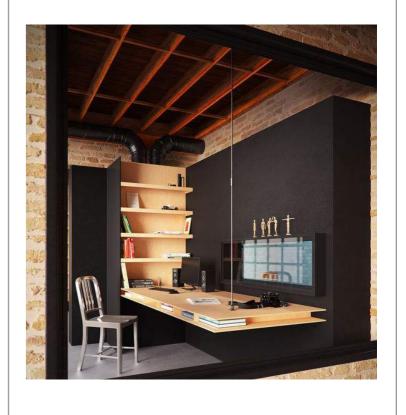
sitting positions:

- eating: sitting straight, no backrest
- chilling/talking: flexible backrest

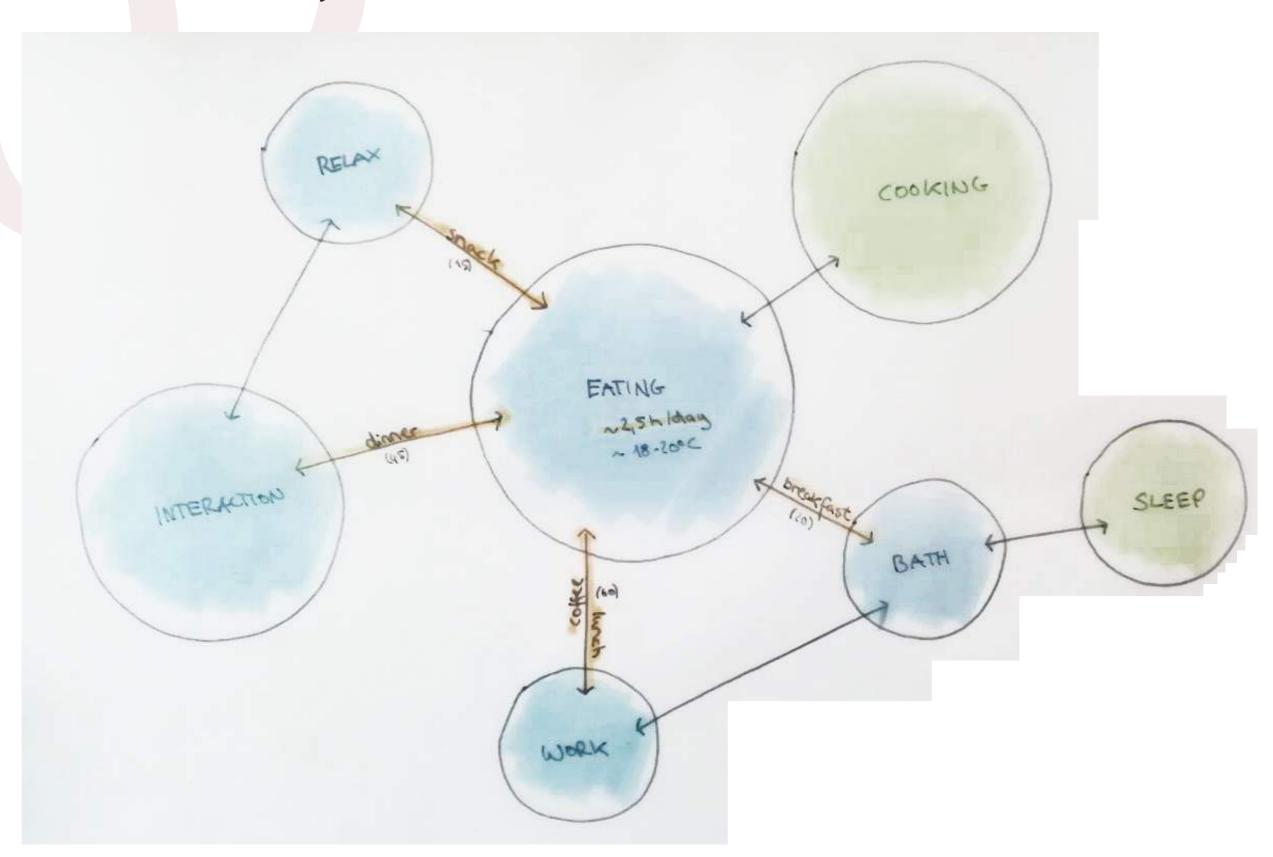
eating breaks = 'body breaks'

- encourage different eating positions
- different table heights

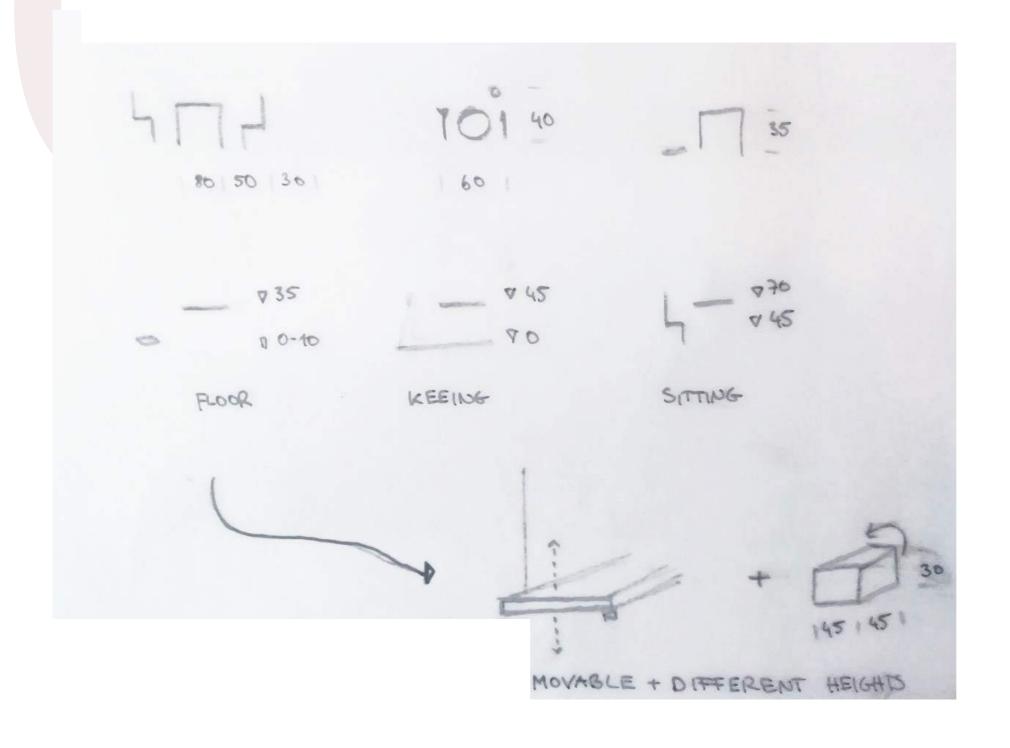


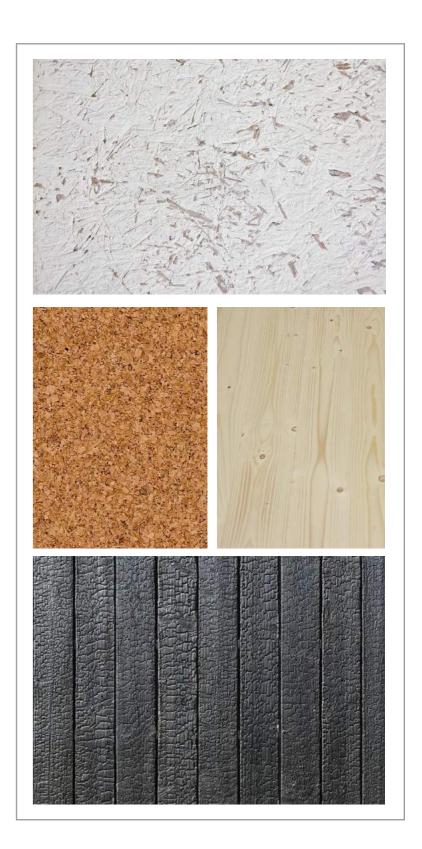


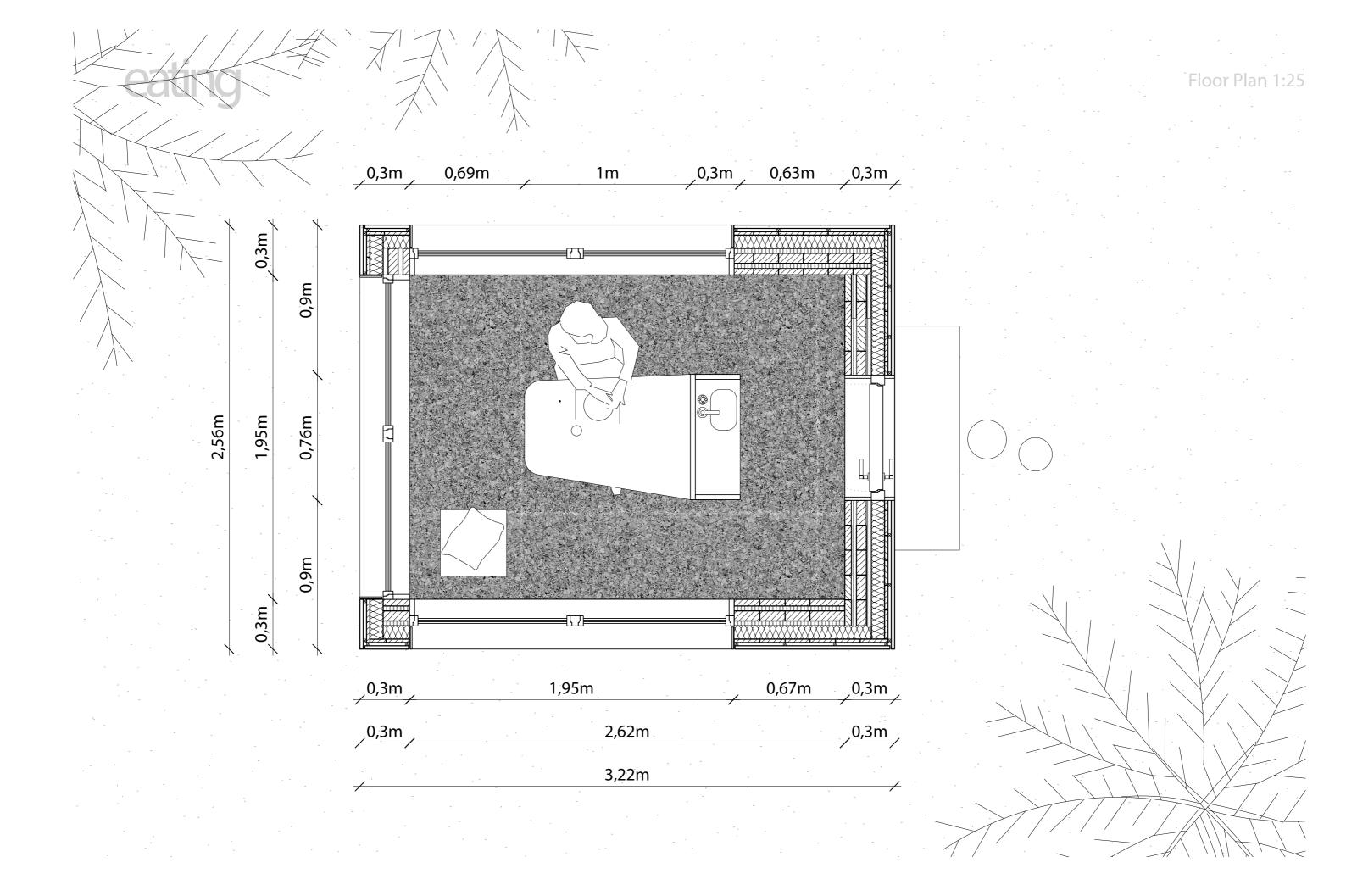
location&dailyuse

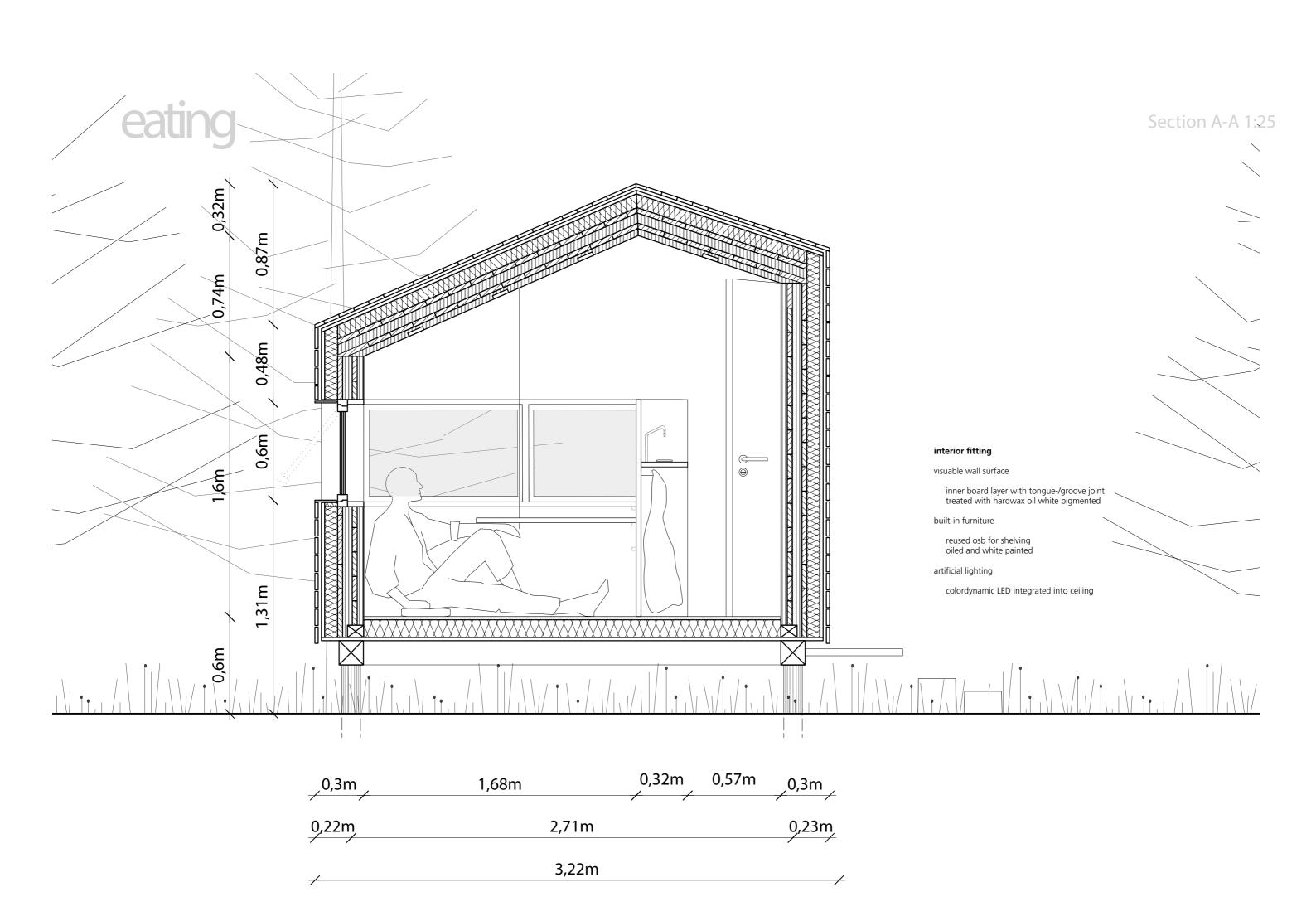


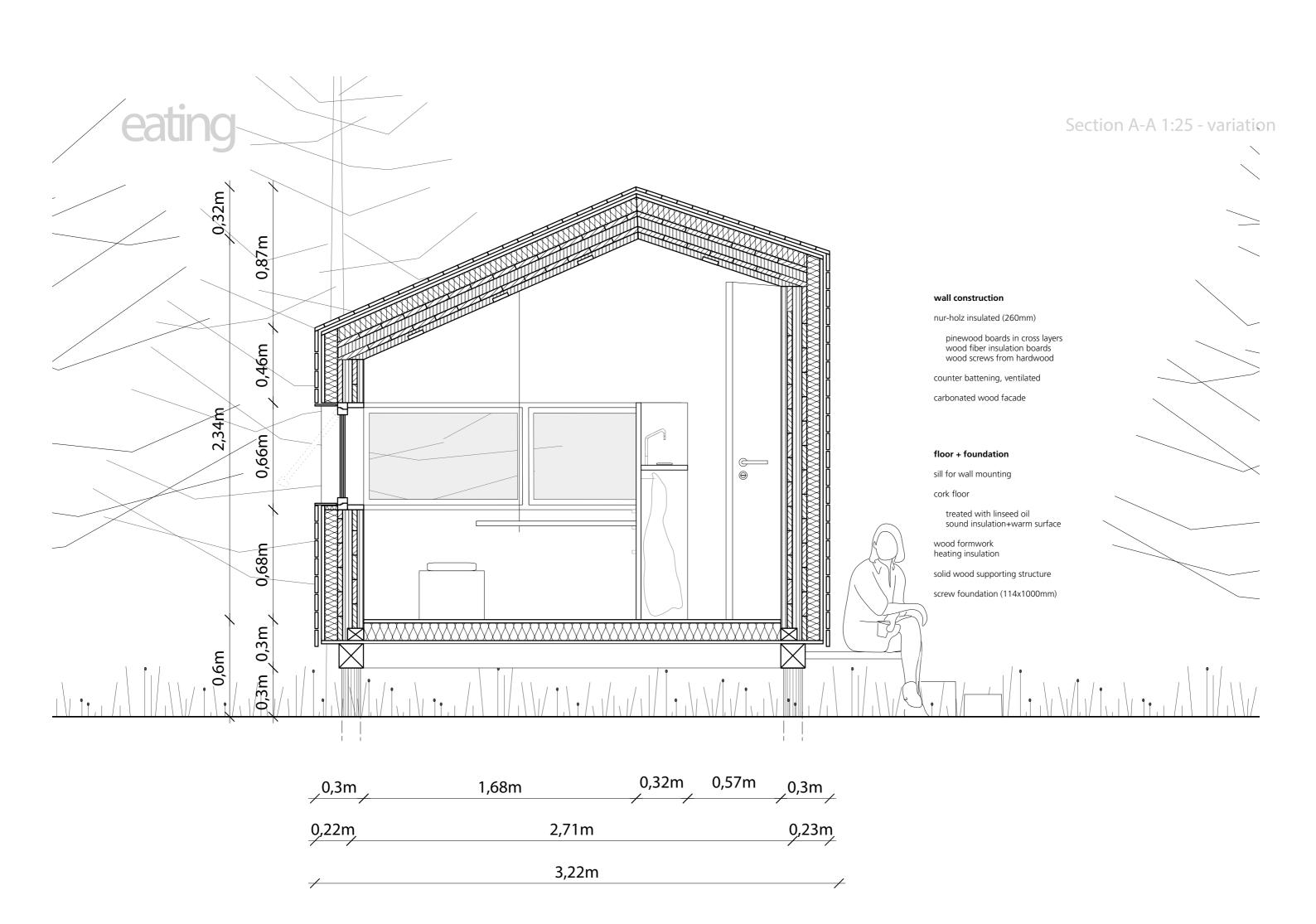
concept













Contact with nature and environment

Natural light

Circular economy

Ecology

Easily demolished

Zero energy

needs

also:

Stove/oven

Fridge

Sink

natural light

free table space

free space to move

storage

rubbish bin

solarpanels

15 ° = 90 %

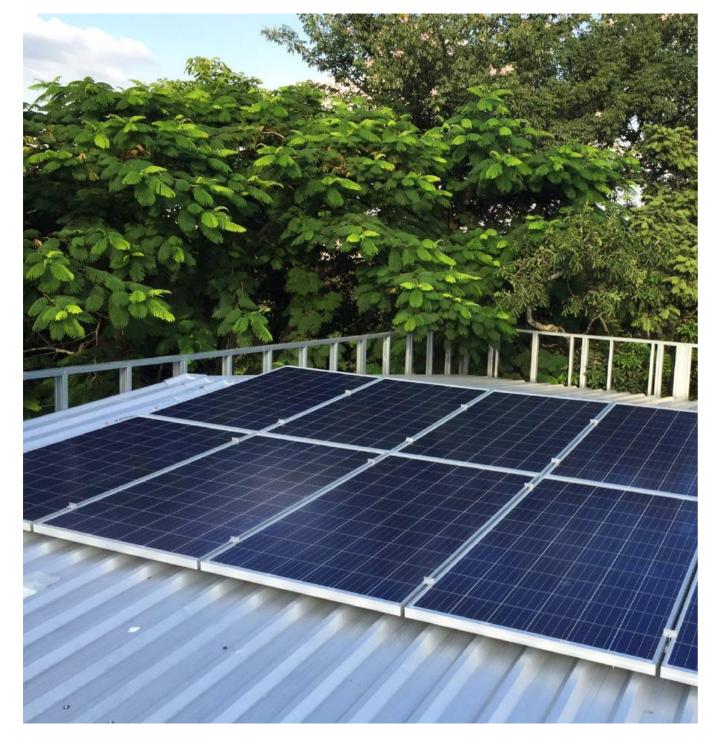


Image: pxhere.com

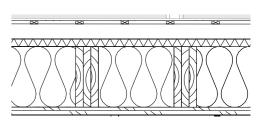
stove+oven



Image: Hankkija Oy

structure and materials

solar panels metal roof 20mm crossbars 100mm air-gap 50mm wind-barrier board 350mm gluelam beams 20mm crossbars 20mm interior panel



Roof: Recycled metal, solar panels

gluelam beams

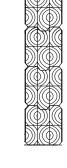
Walls: Recycled non-settling log 240mm

(or logs made from recycled timber?)

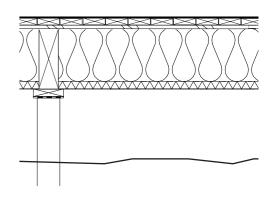
Floor: Recycled timber



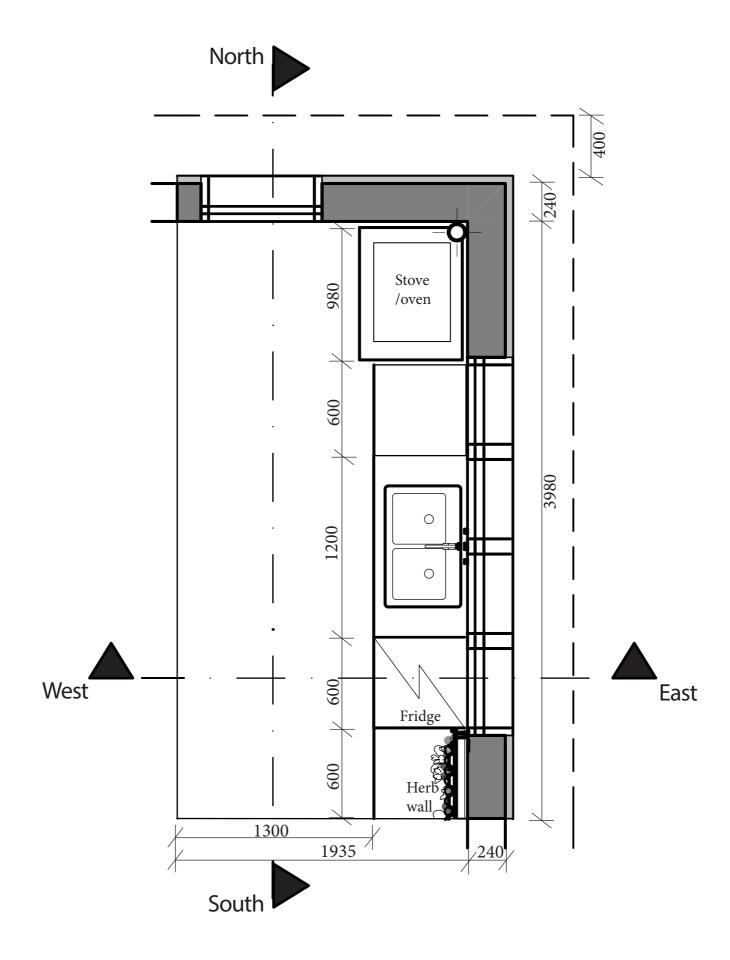
240 mm non-settling log



50mm floor timber 20mm crossbars 300mm beams (50mm wind-barrier board) concrete pillar foundation

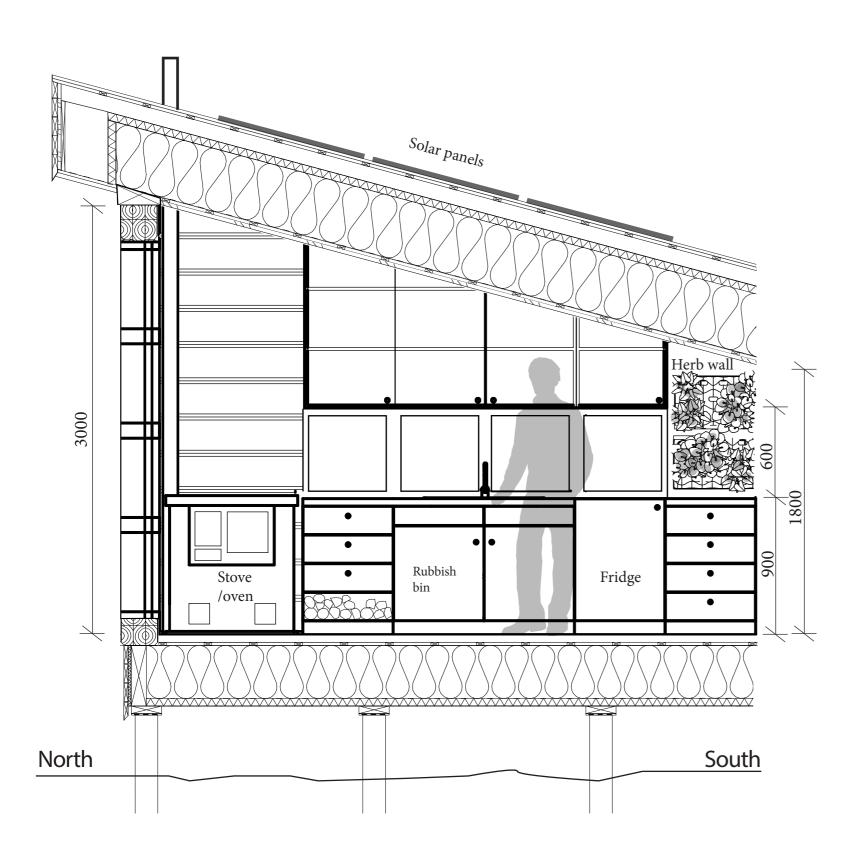


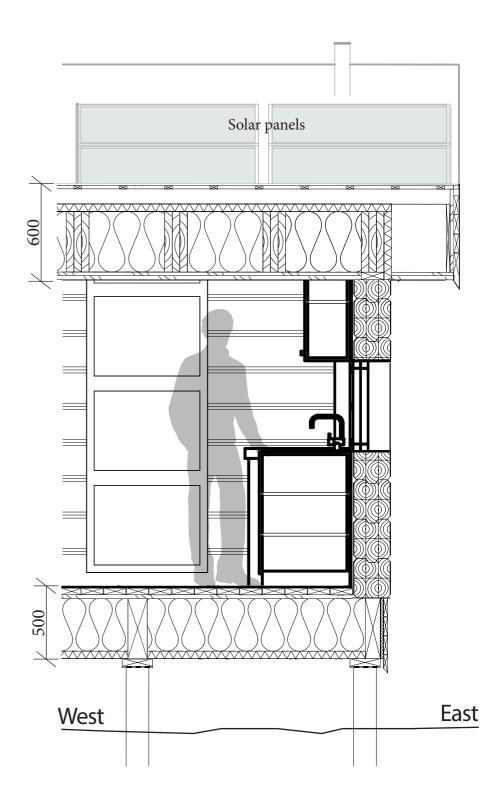
floorplan 1:25



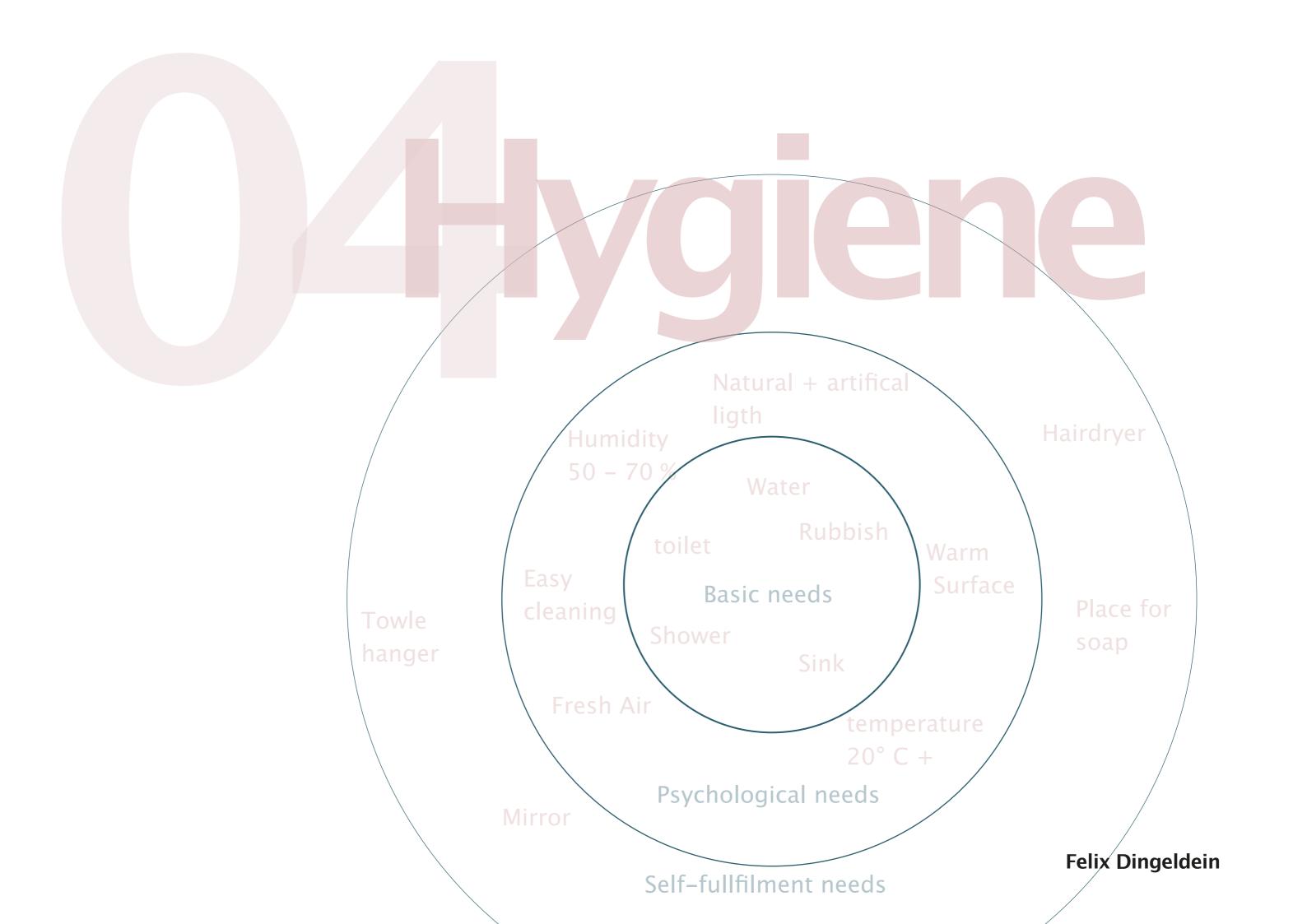


sections1:25

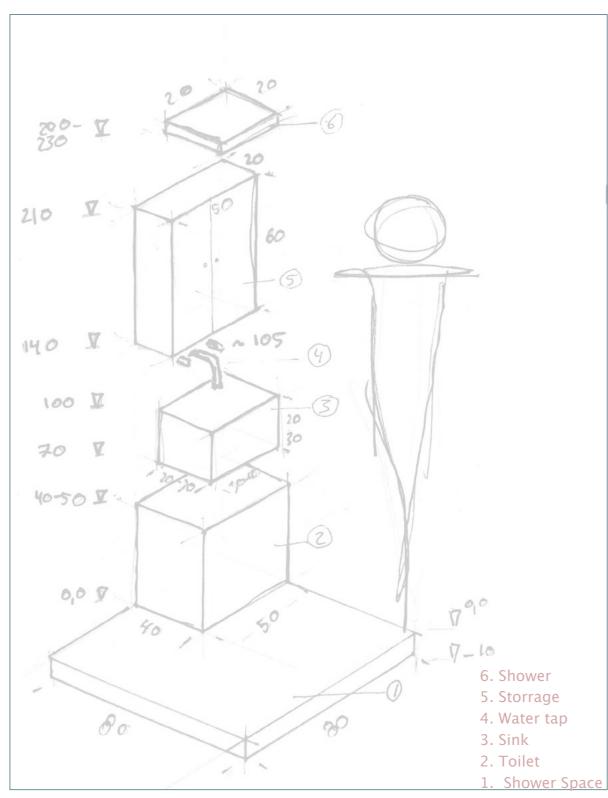


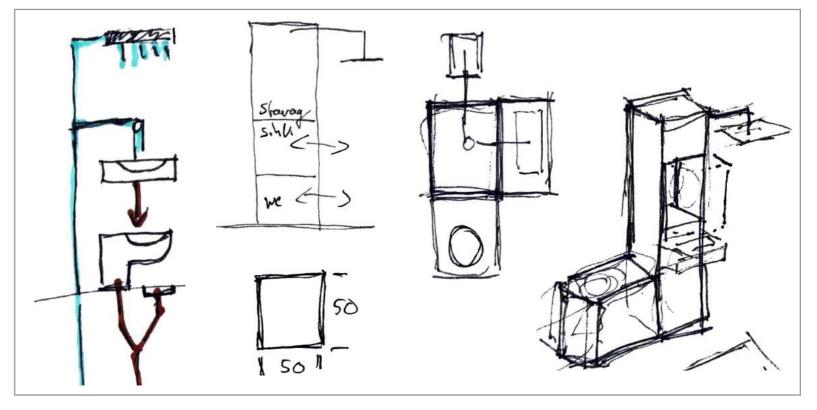


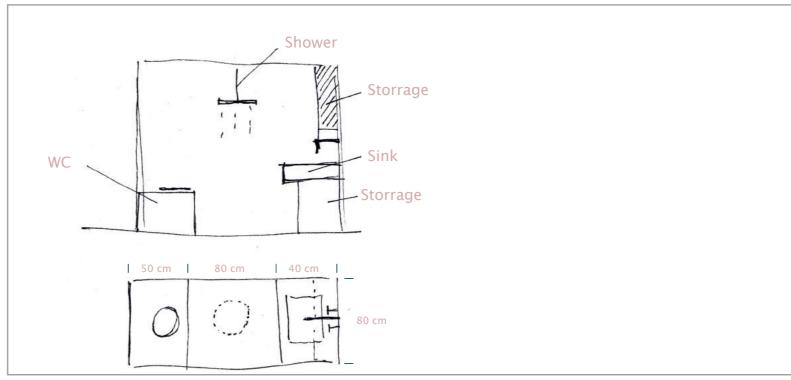




dimensions:







submarine-a-spaceship-nope-its-home/

https://www.facebook.com/silocity

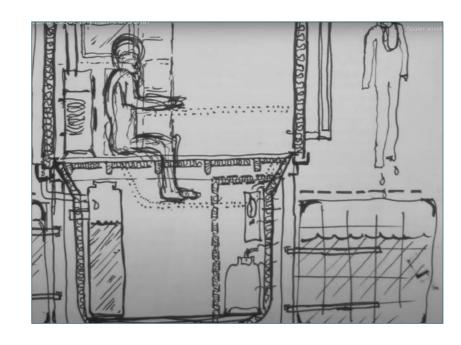
https://hackaday.com/2018/03/11/is-that-a-mars-habitat-a-

SILO

Jan Körbs, Berlin 2017





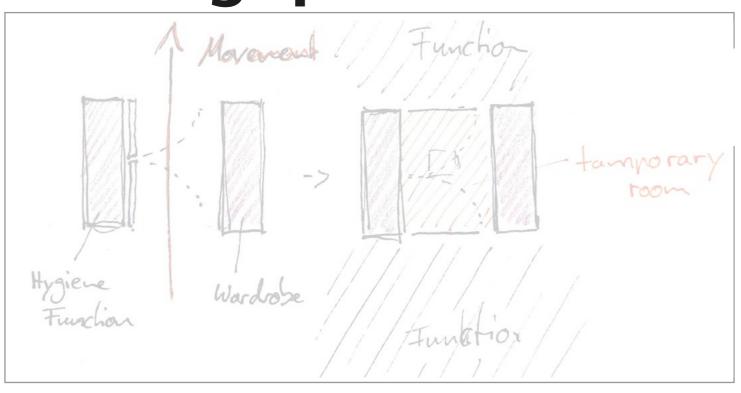






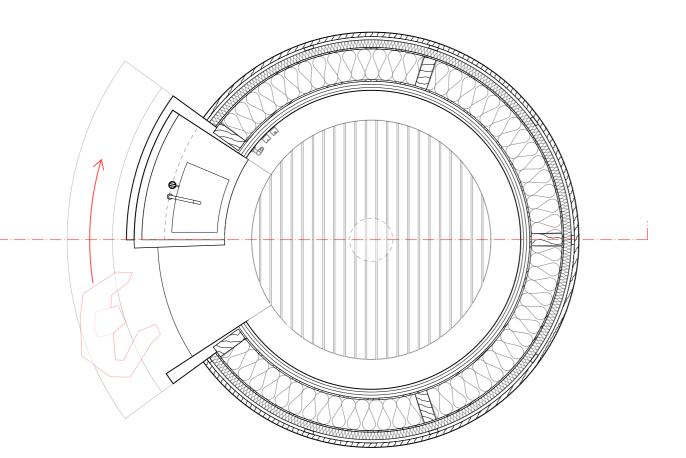


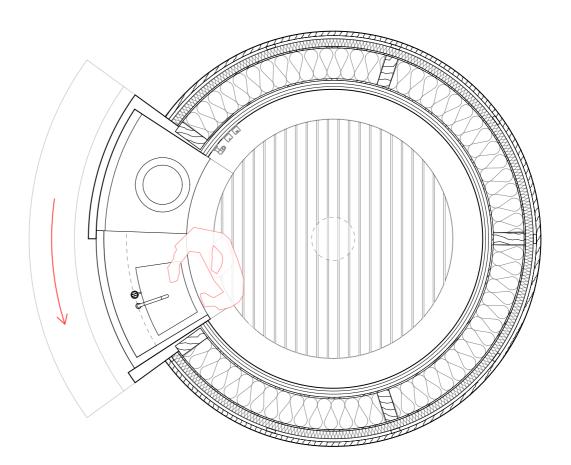
creating space:

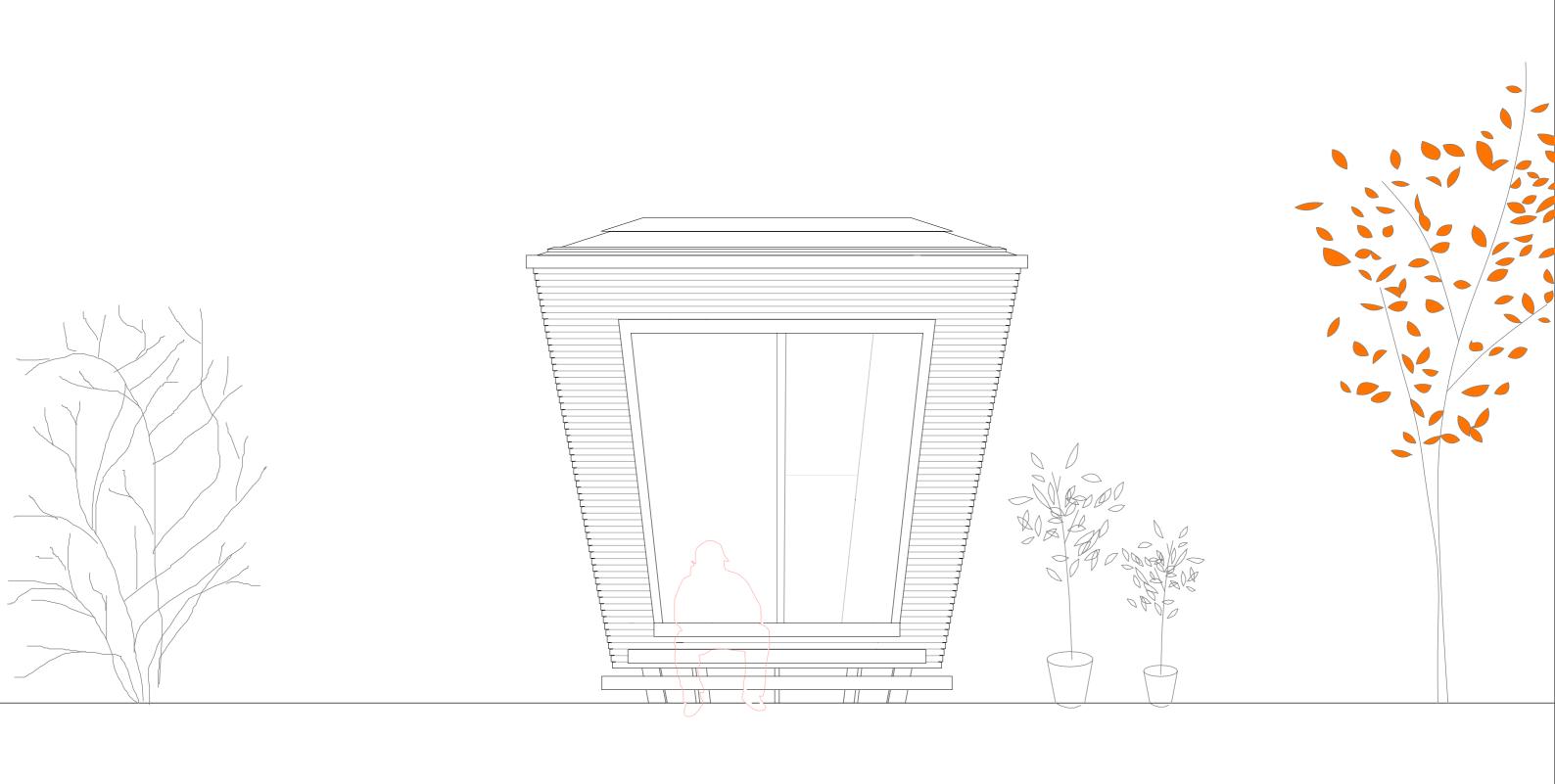




https://www.youtube.com/watch?v=R5kApf8ciKs







VECTORWORKS EDUCATIONAL VERSION

M 1/25 HYGIENE



2,00

1,96

18 18 18

1,21

80

40



1,60

1,60

28

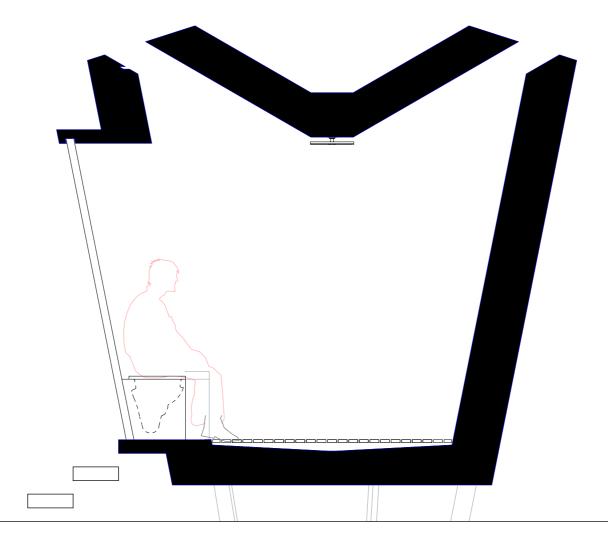
3,24

1,06

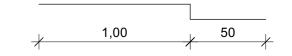
32

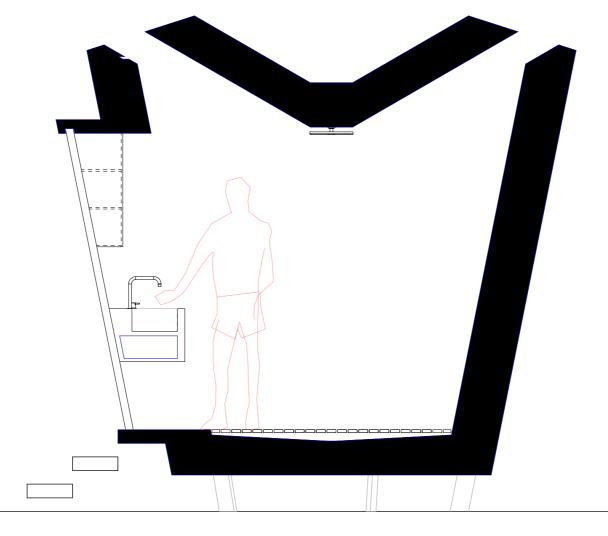
1,06

VECTORWORKS EDUCATIONAL VERSION



M 1/25 TOILETE



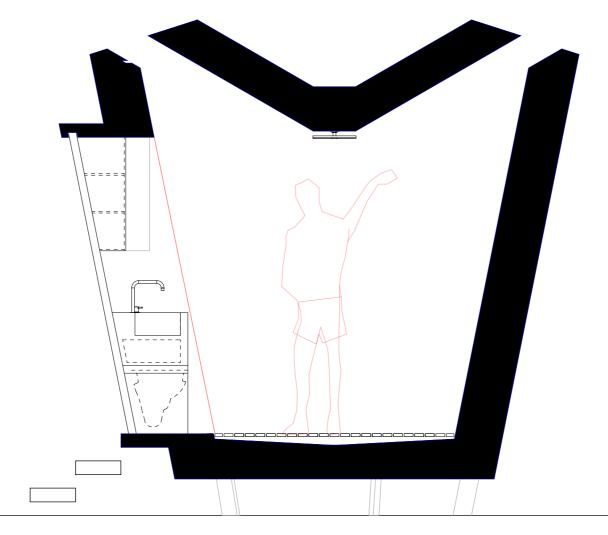


M 1/25

WASHING / SELFCARE

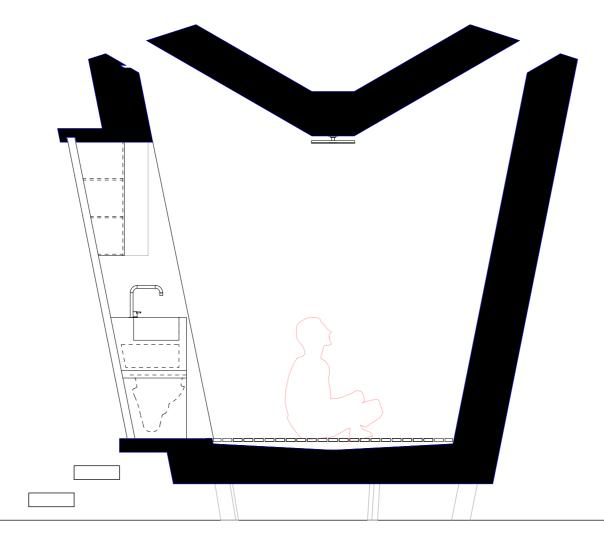
1,00

50



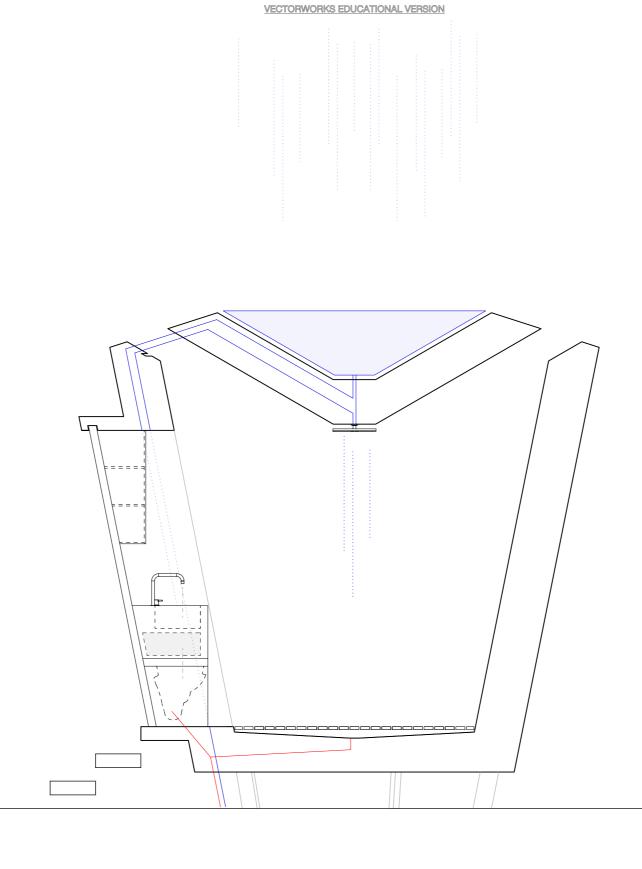
1,00

SHOWER



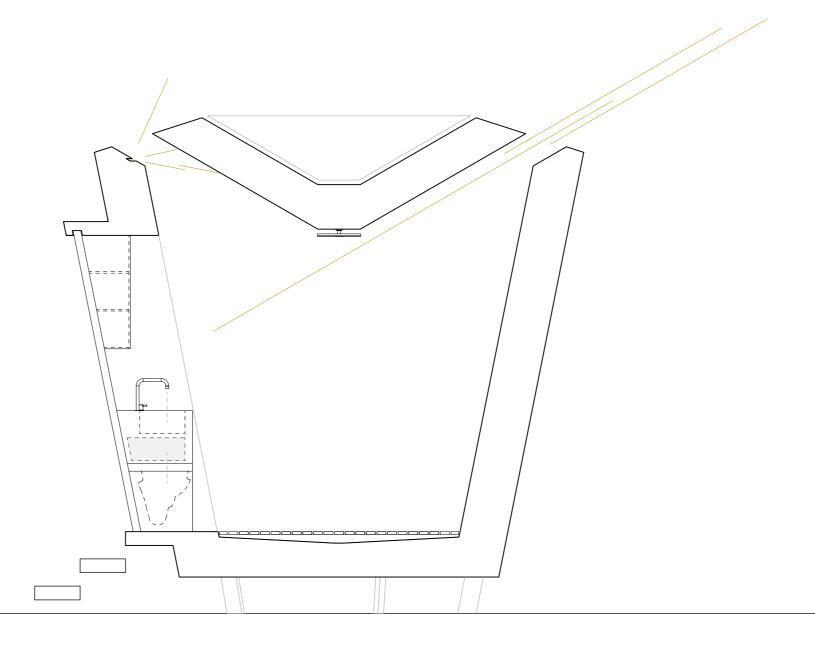
M 1/25 MEDITATION





M 1/25 WATERSYSTHEM



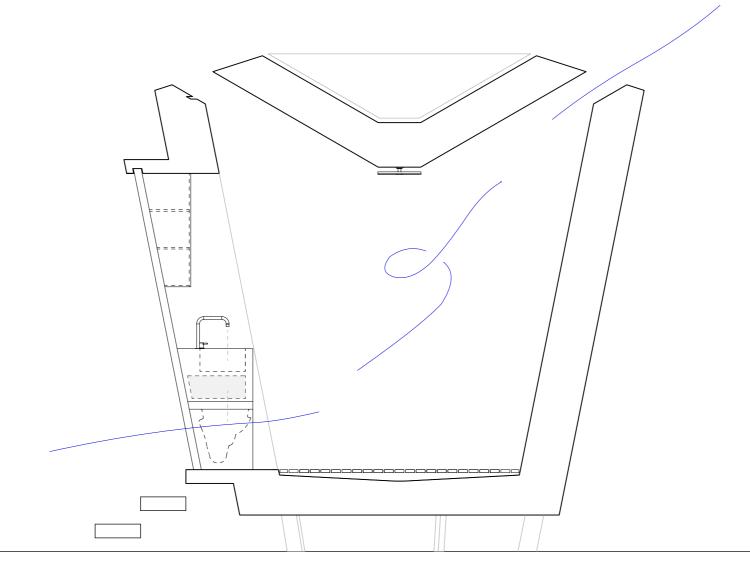


M 1/25

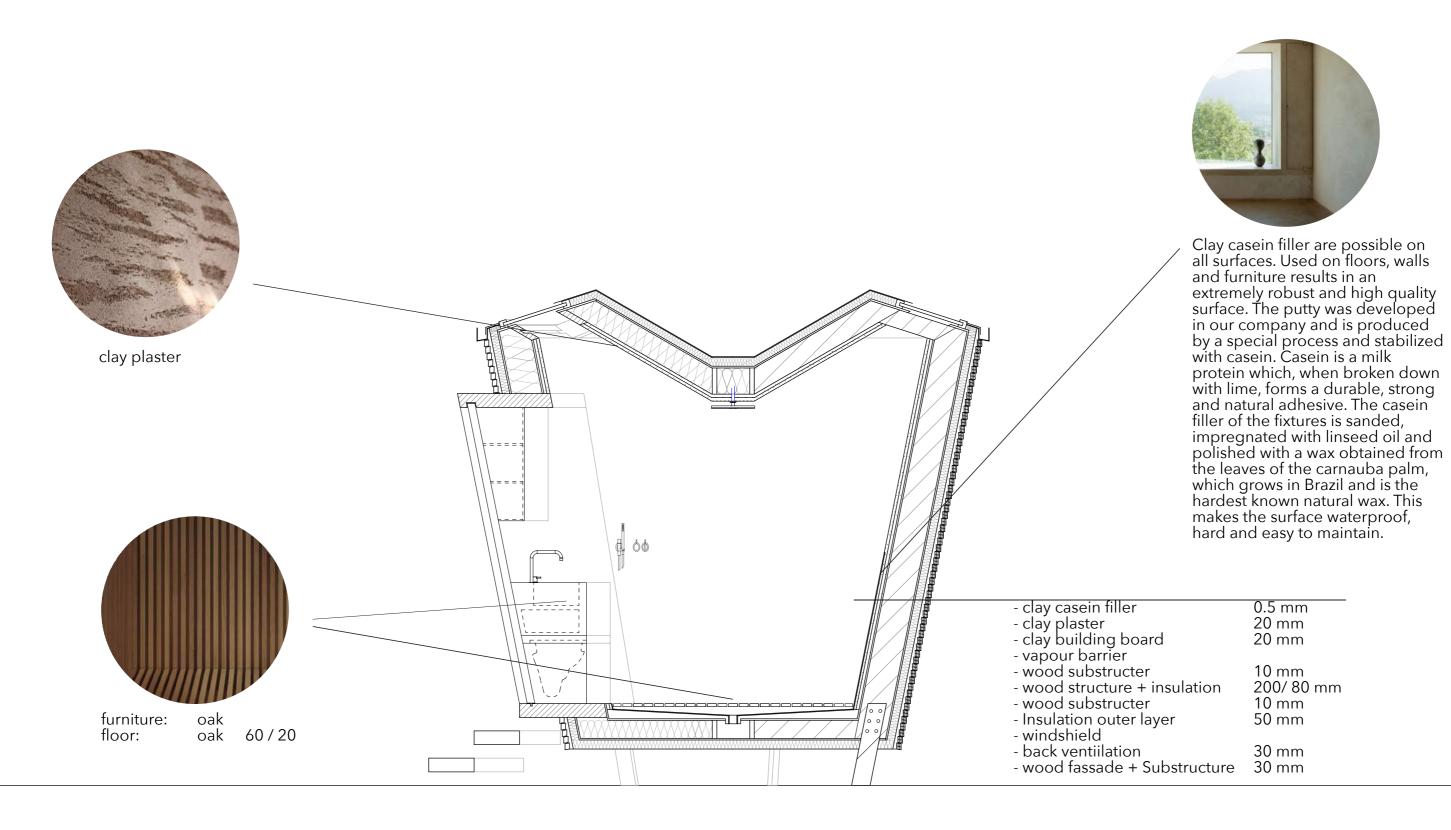
NATURAL/ARTIFICIAL LIGTH



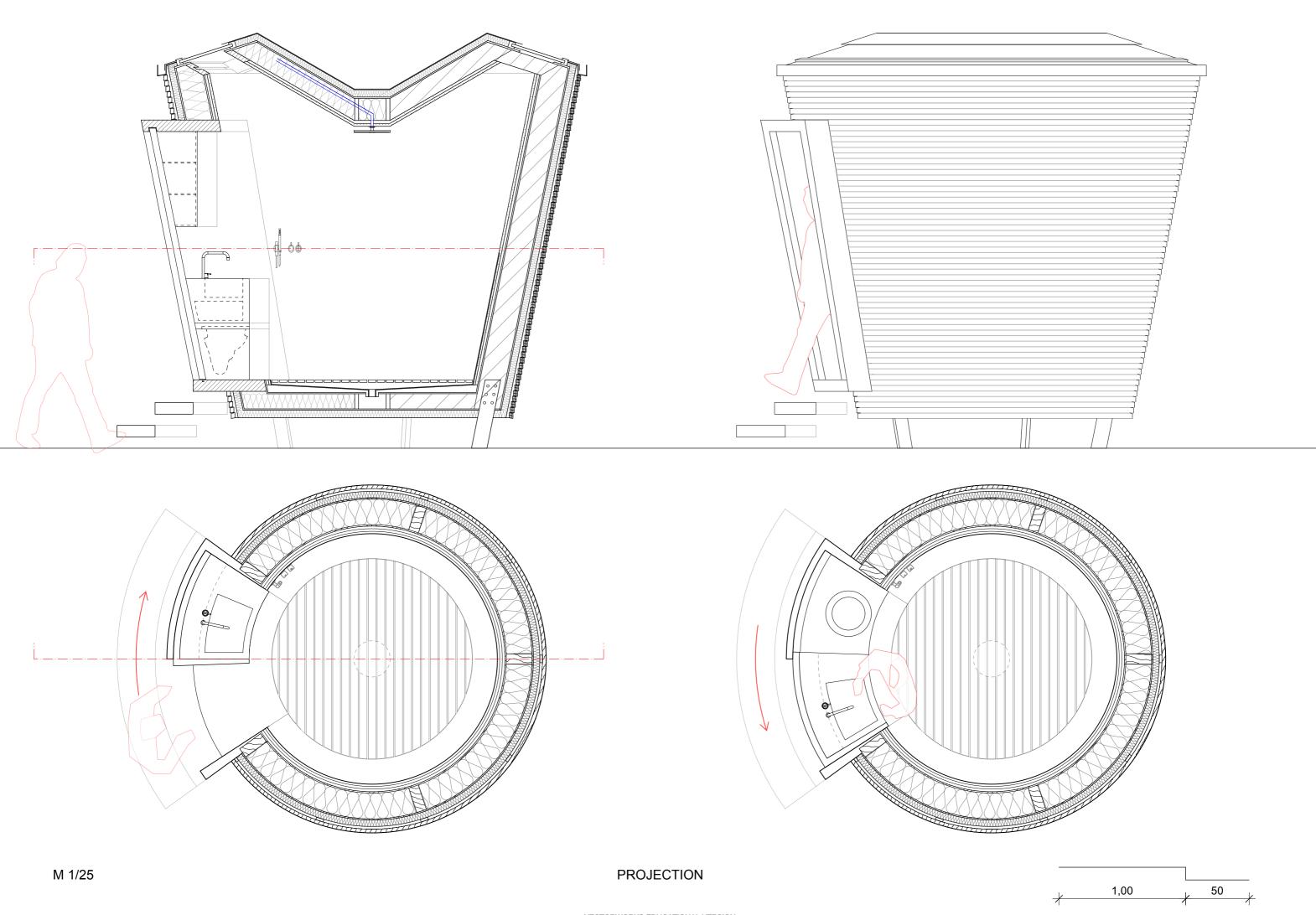




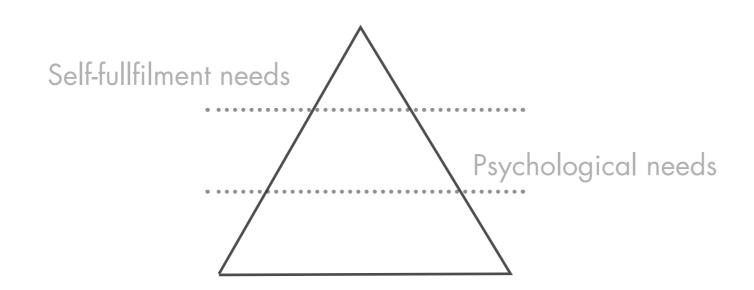
1,00



M 1/25 MATERIAL







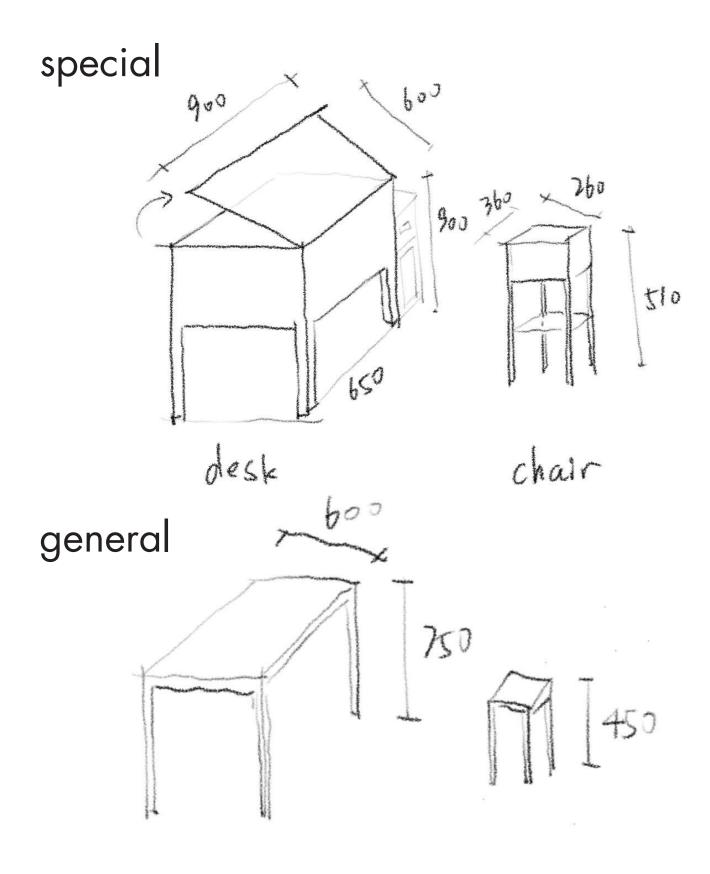




needs for an Architect

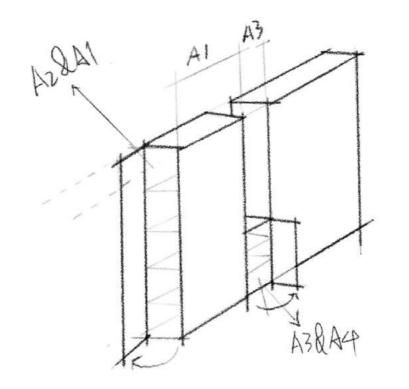
Self-fullfilment Basic Psychological *storage - painting - book - material - model *space sense - daylight - paper - artificial light - drawing tools - atmosphere (exterior space) - desk for computer *drawing good view - thinking - sitting chair - relaxing - big desk for hand drawing demonstrate - portfolio - painting - idea *natural light - model

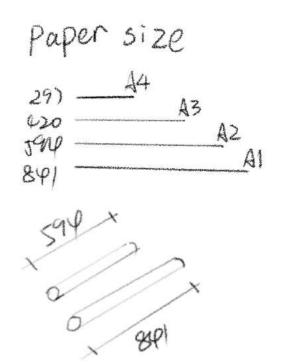
About Table

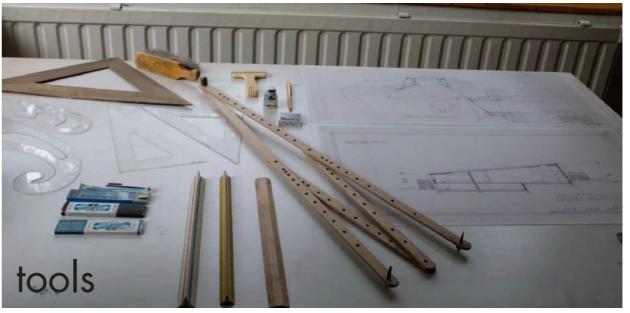


About Storage

different size



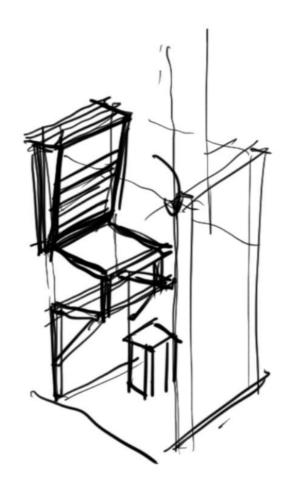


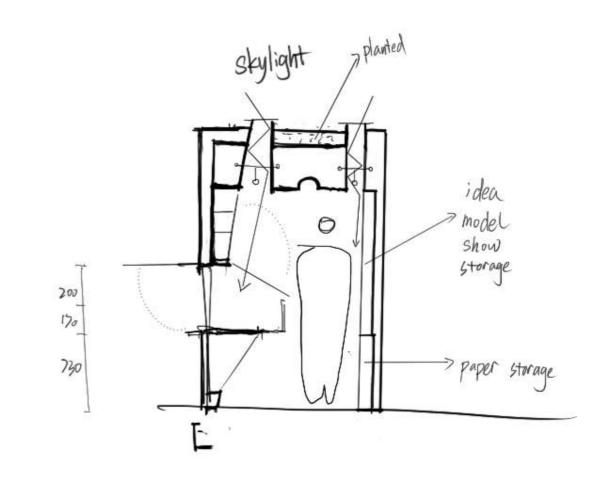


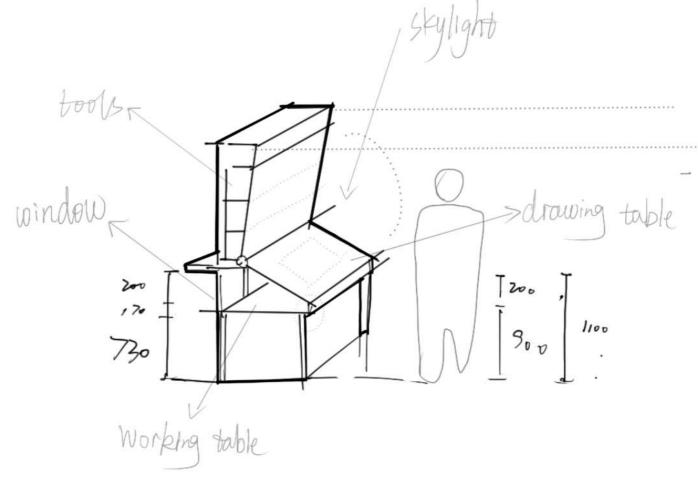
photographed at Aalto House

Working system

- 1) Sky light
 - 4
- (2) window
 - 4
- (3) table
 - 7
- (b) Storage



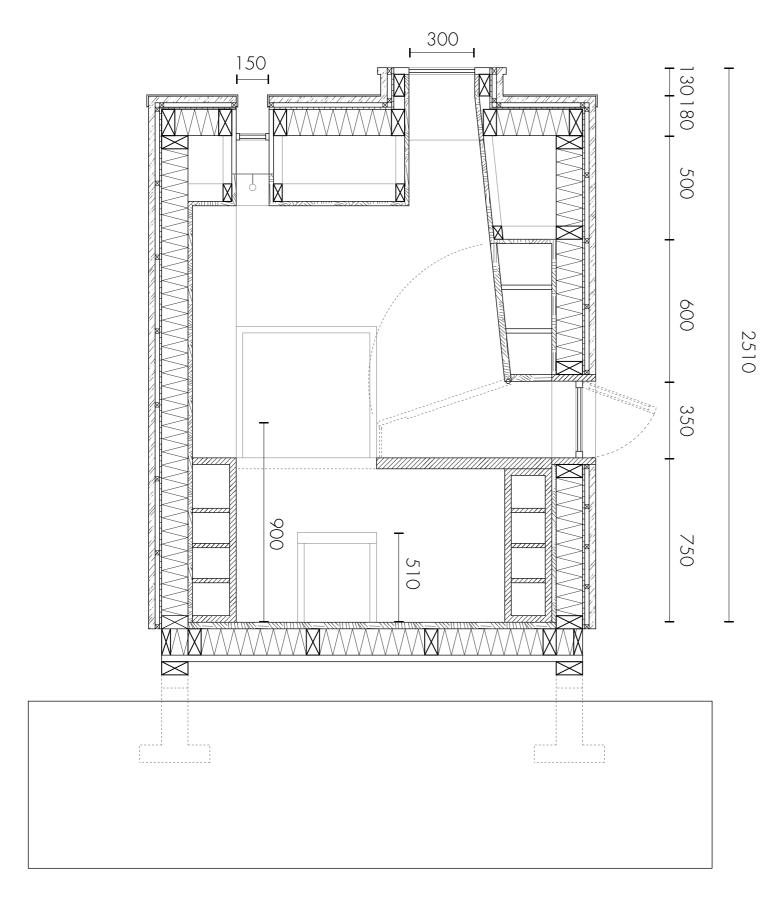


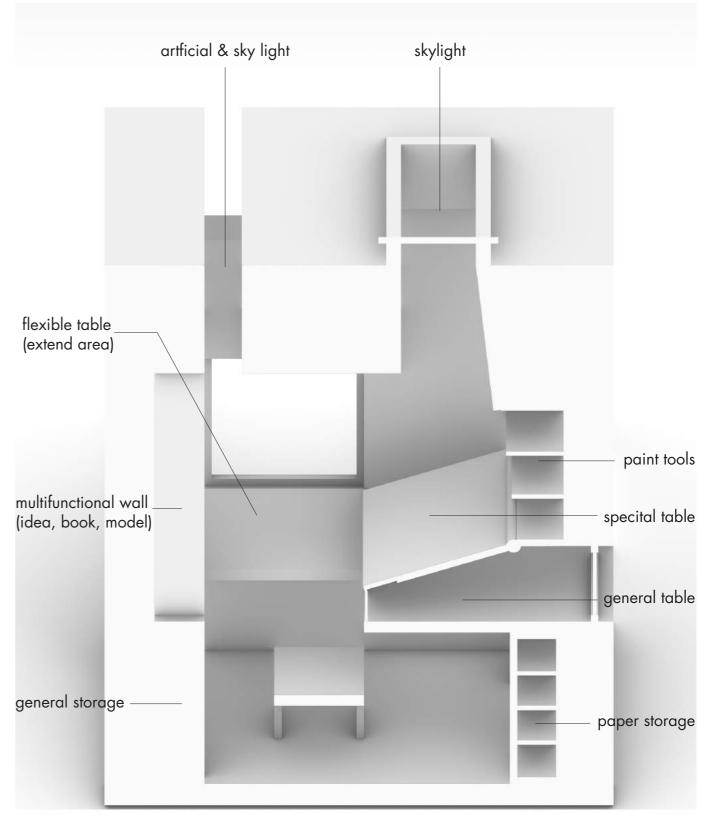


Basic elements of building - roof, floor, wall, window, door

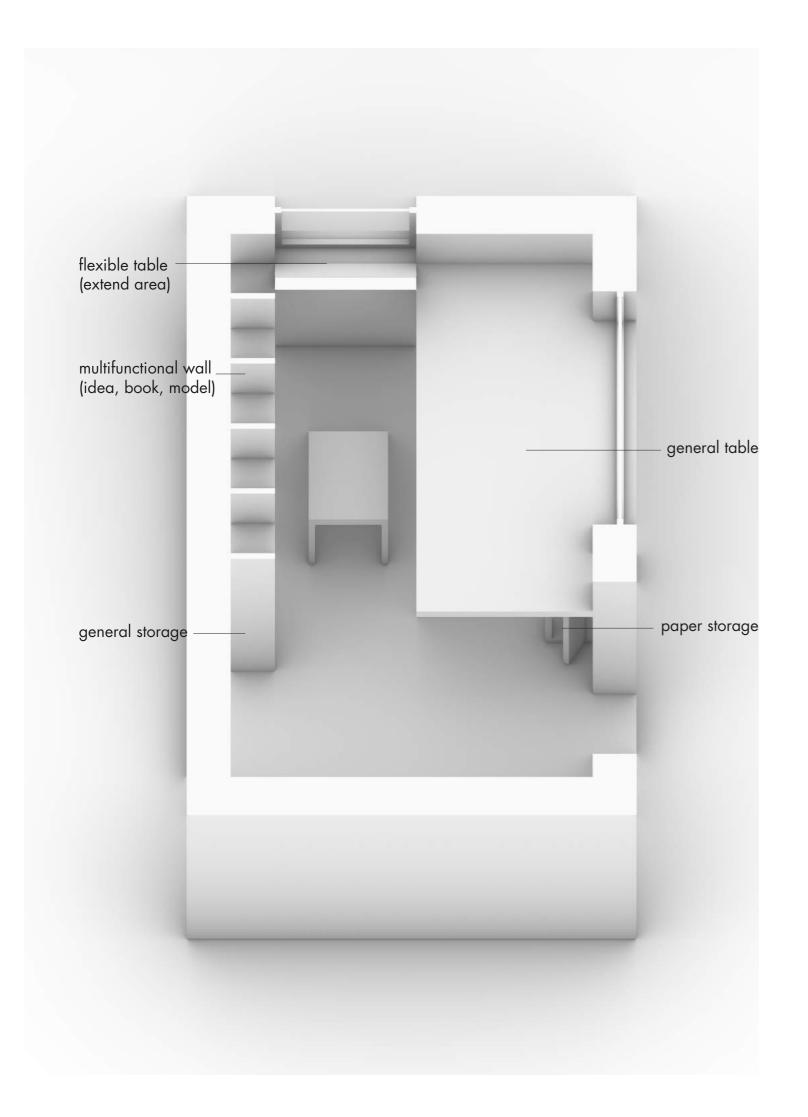


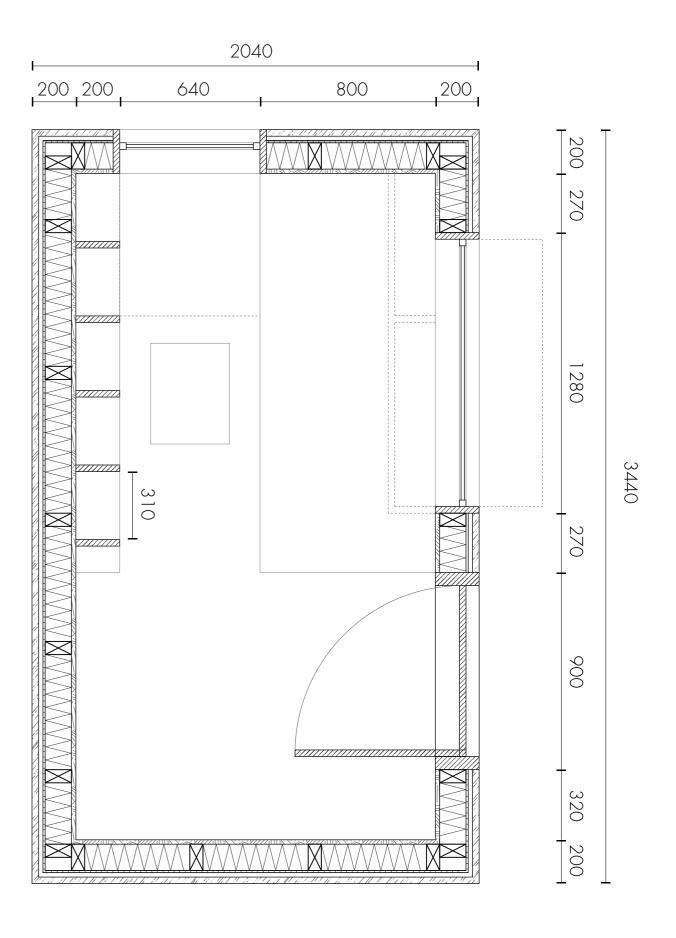
Various of Needs





Section





Plan

Materials



larch timber



birch plywood



birch

