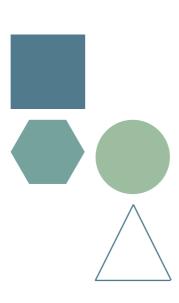
Back to the Basics

Assignment 2



Guidelines

1. Flexibility and adaptiv design

2. Sustainability

3. Design

Guidelines

1. Flexibility and adaptiv design

MEANING:

in relation to various life cir cumstances of an invdiviual person or different user groups long term thinking in a sustainable way

FUNCTIONS:

capacity to transform from use

DIMENSIONS:

ability to transform depending on the number of users

MATERIALS:

adaptabiliy of changing materials

2. Sustainability

MEANING:

thinking in environmental social and economical aspects

ENVIRONMENTAL:

materials (life span) terms of light, ventilation, view, accessibility long-life materials

SOCIAL:

mixed uses typology of space

ECONOMIC:

materials: modular to avoid waste, reusable materials

3. Design

MEANING:

proportions of the spaces

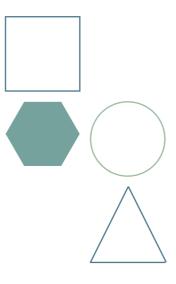
thinking of the importance of circulation

not defining specific rooms - defining actions

the main material is wood

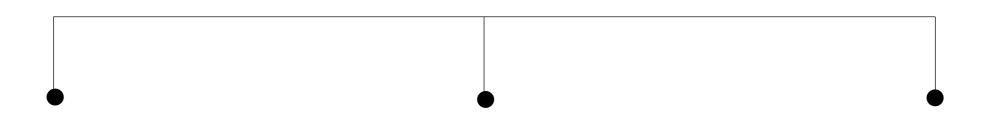
Back to the Basics

Assignment 2 Sleeping



GUIDELINES

SLEEPING SPACE



FLEXIBILITY

Use Dimensions Materials

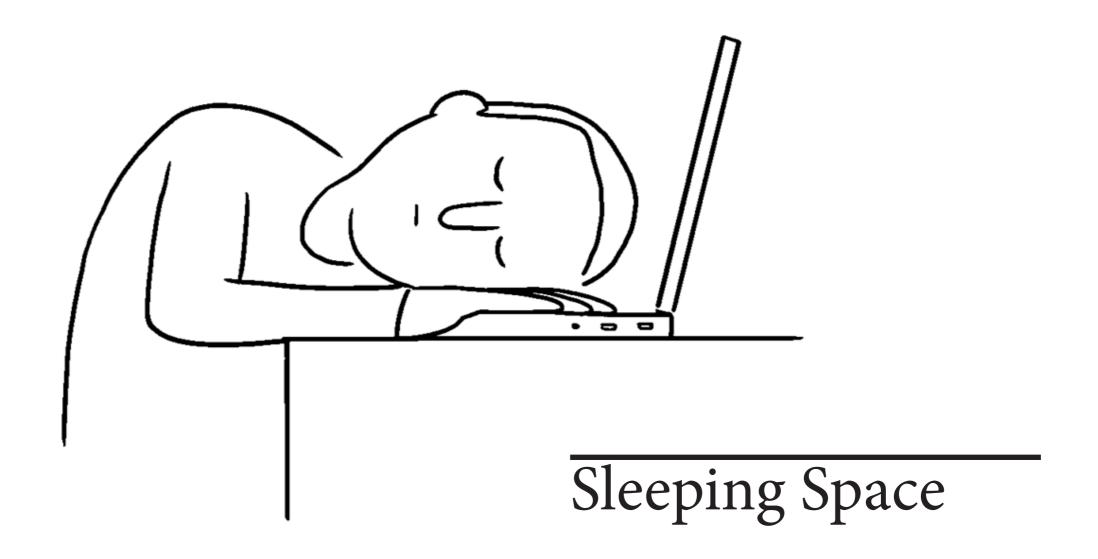
SUSTAINABILITY

Enviromental (light, ventilation)
Social: Mixed uses
Economic: materials (modular,
reusable)

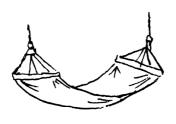
DESIGN

Circulation

Main material wood





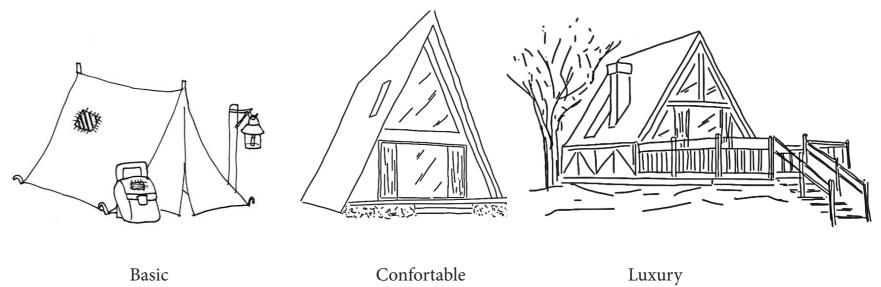


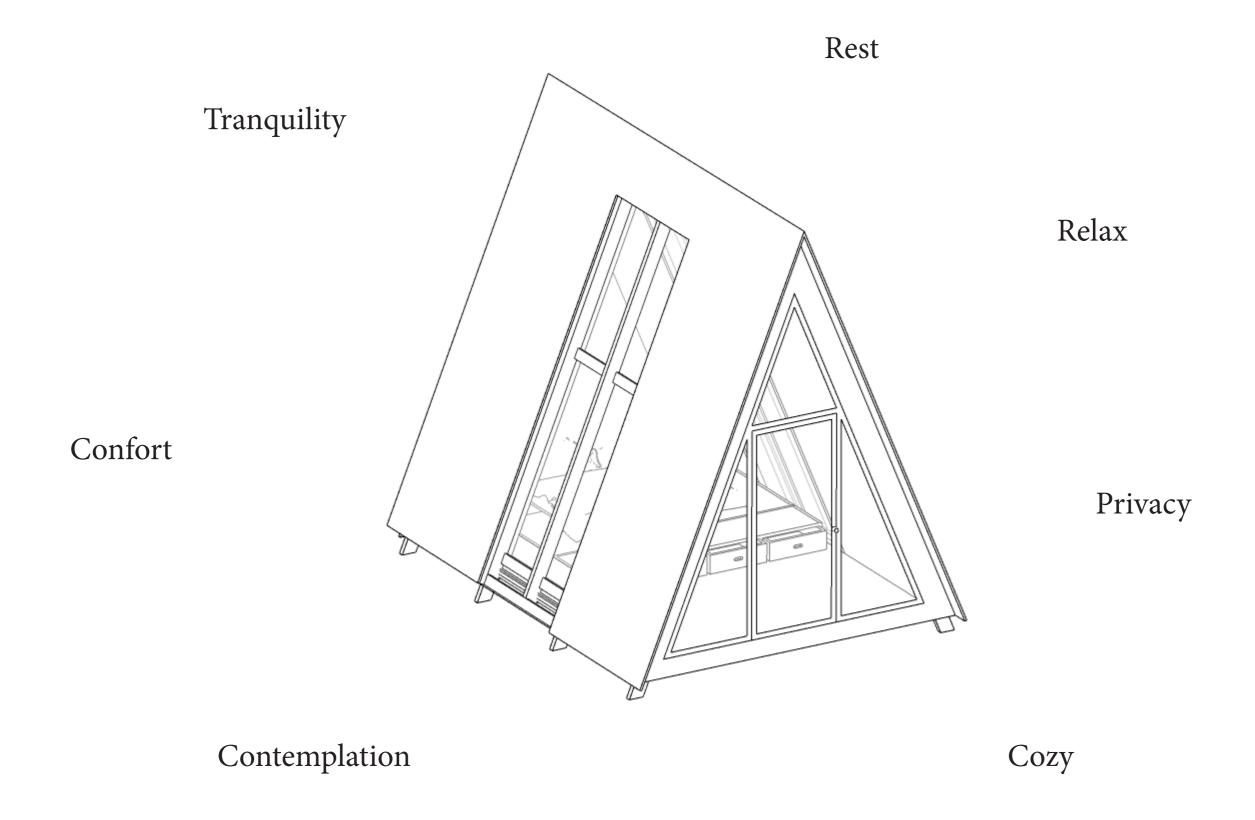


How?

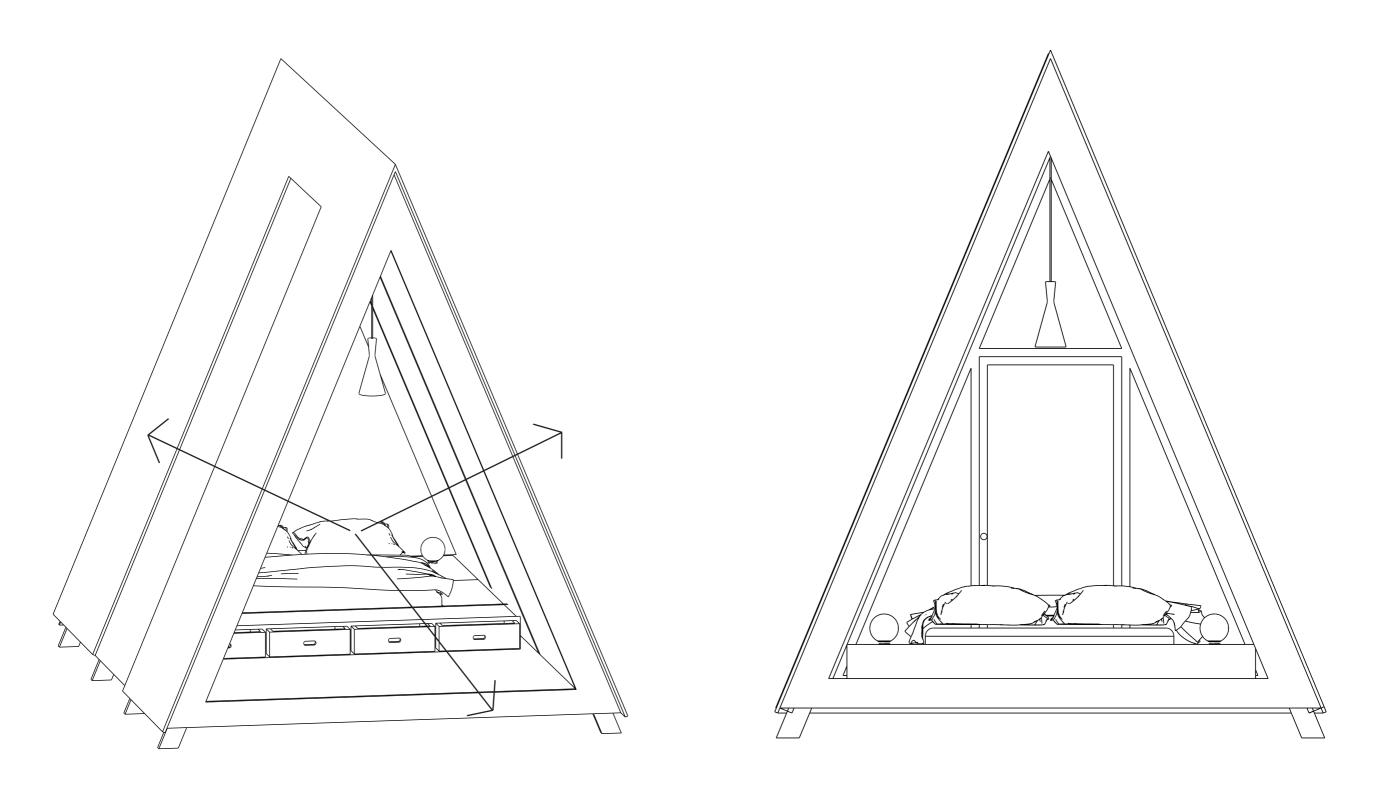
Back to basics



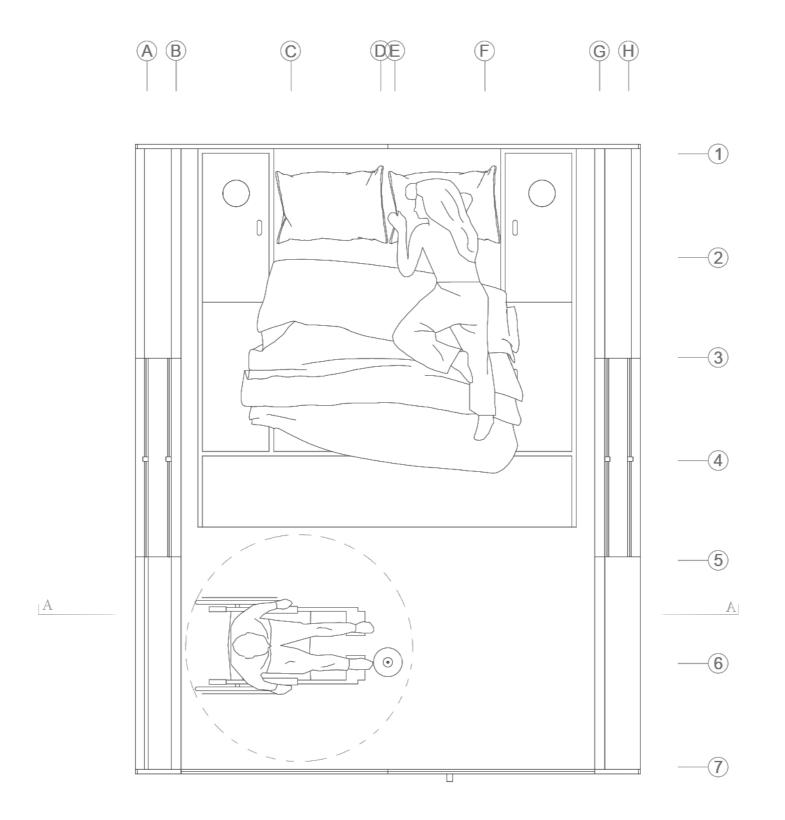


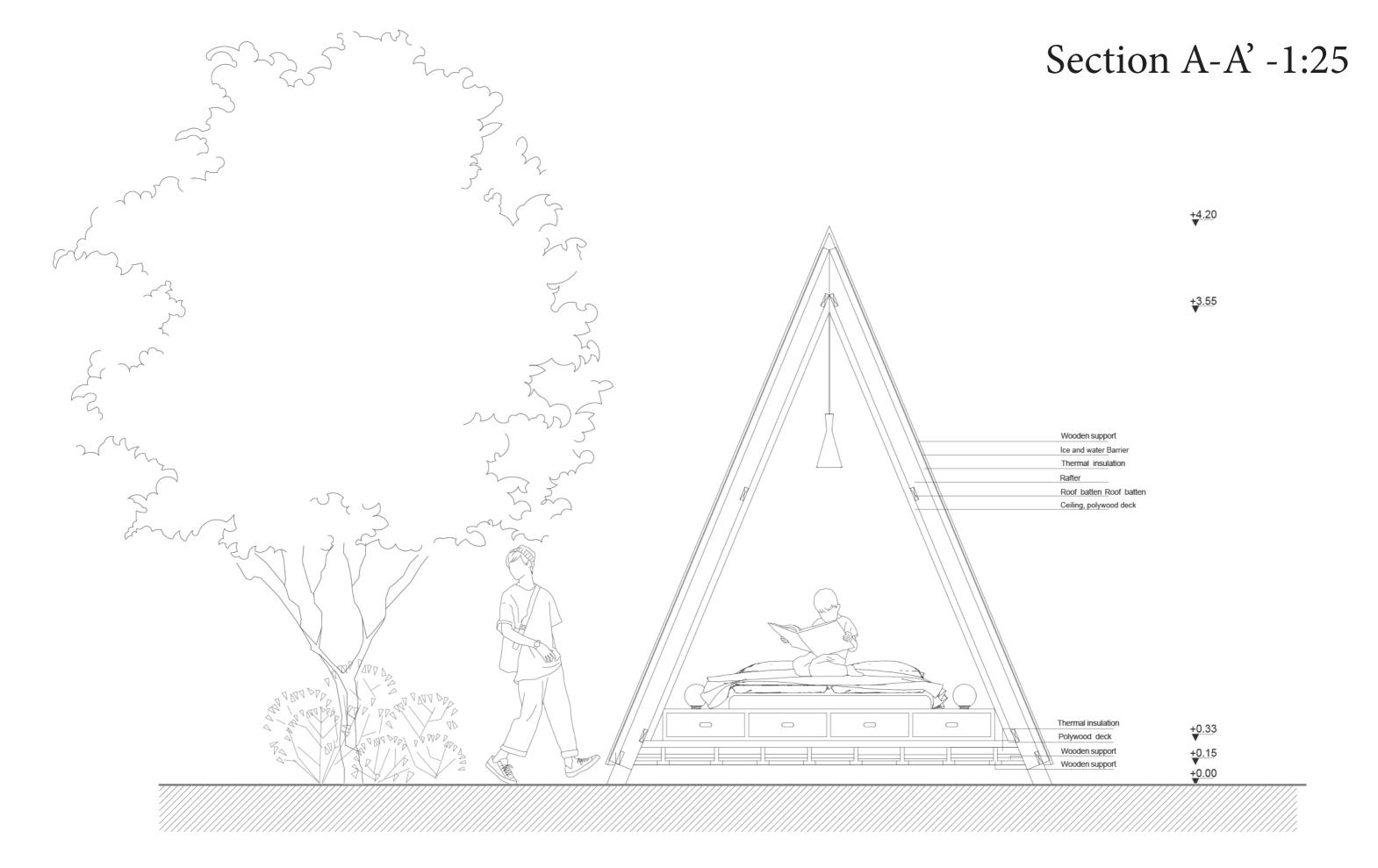


Views Contemplation

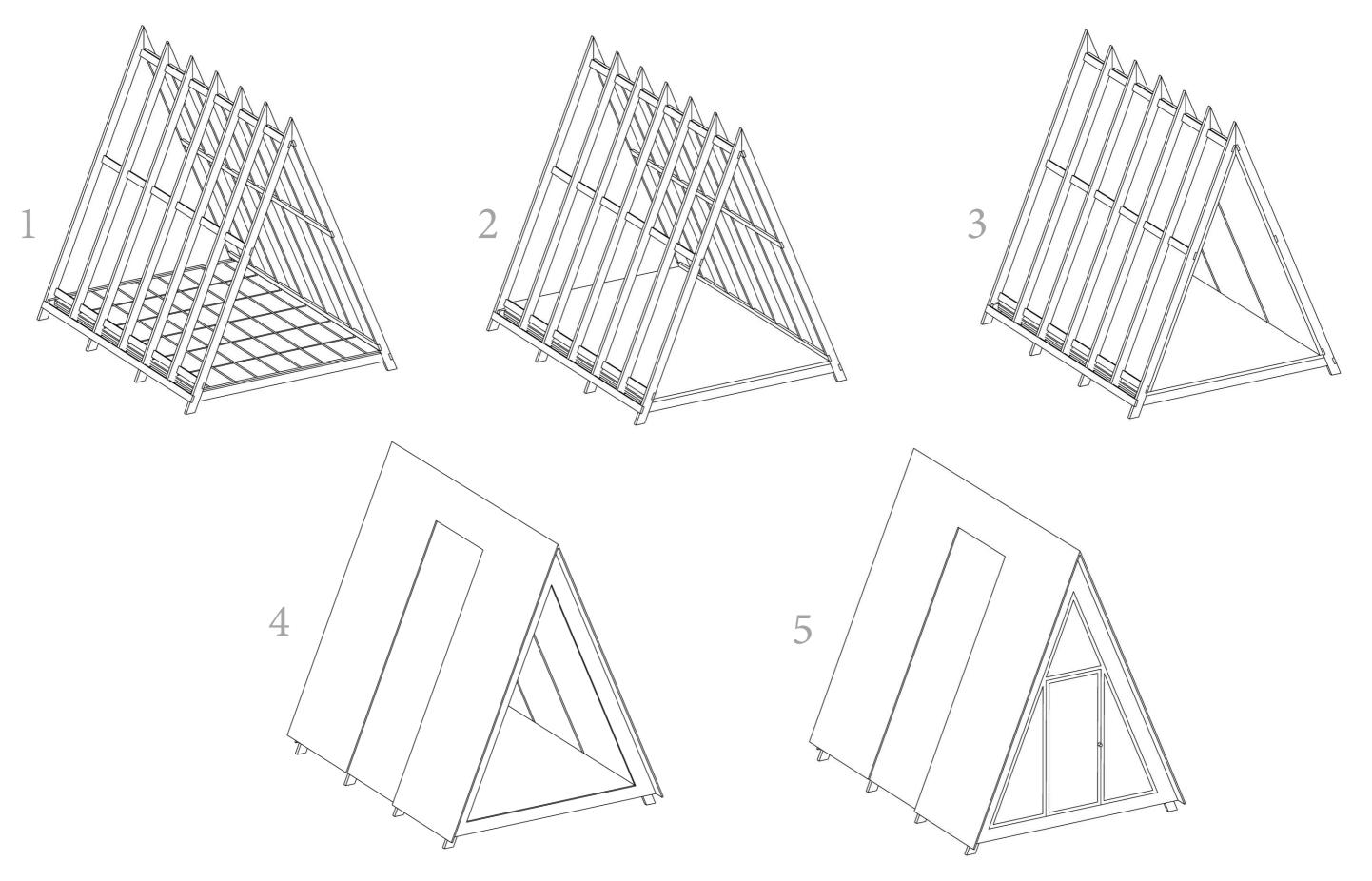


Plan 1:25



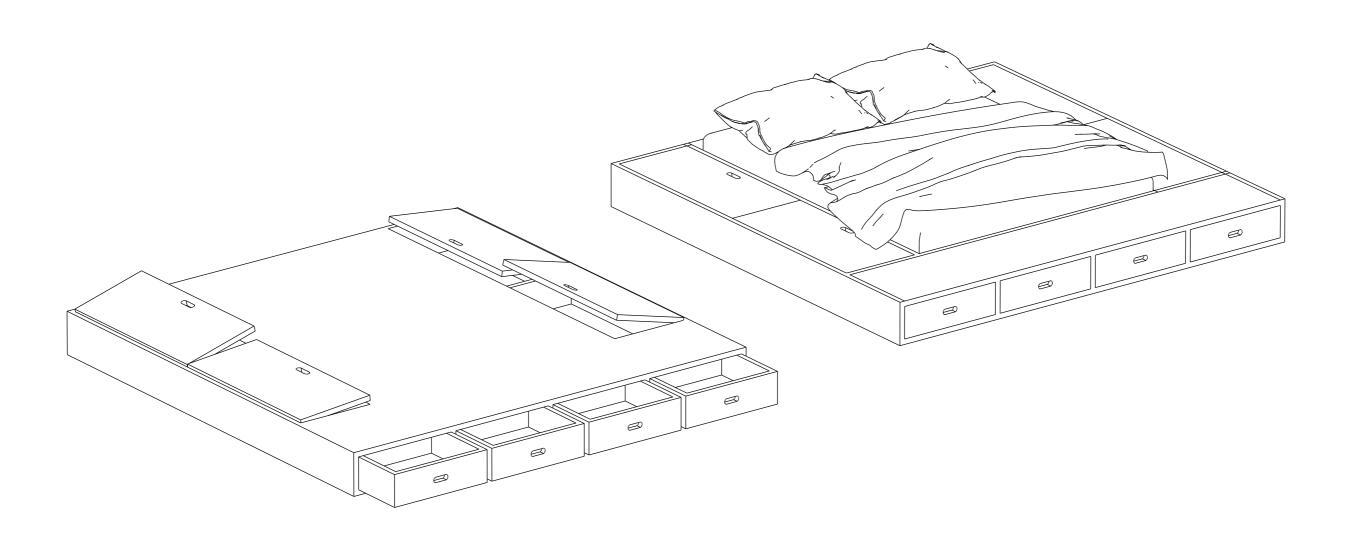


Construction

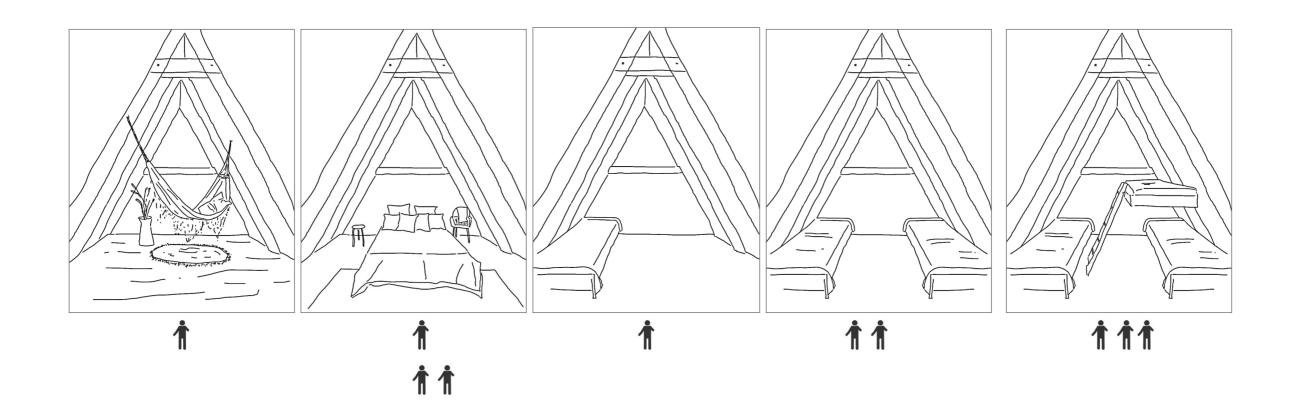


Wood architecture design studio | Assignment 2 - Fall 2021 | Karen Susana Salazar Vanegas

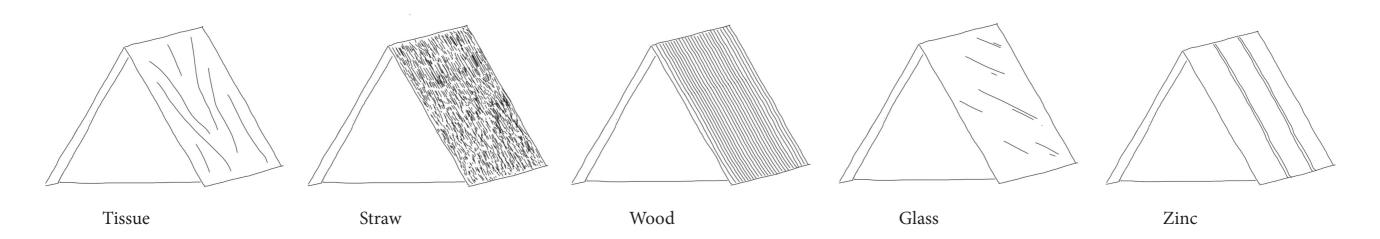
Detail furniture



Users



Types of materials



SPACE TO MAINTAIN A GOOD PERSONAL HYGIENE

a place where you can:

empty bowel and bladder
wash hands and take care of teeth and mouth
wash body and hair
wash clothes and other textiles

a place with the feeling of:

privacy
relaxation
warmth (and/or actual warmth due to frequent nudity)

a place:

that is easy to keep clean from bacteria and dirt where there is clean water with proper ventilation and light *basic* needs of goods:

some kind of toilet sink shower storage

Laundry room could possibly be shared.

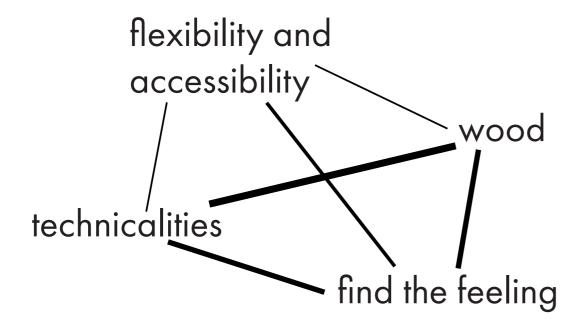
Everything listed could possibly be shared but then the feeling of privacy and relaxation would be lost.

in addition to the basic needs of goods and for increased *comfort*:

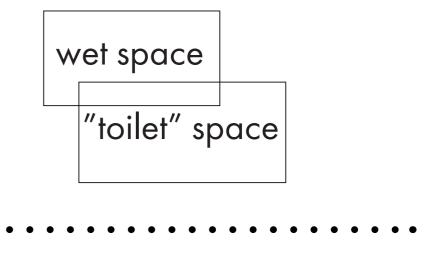
bathtub
washing machine
natural light and possibility to
let in fresh air

In case of lager family constellation, more than one space of hygiene would be necessary.

what it became to be about



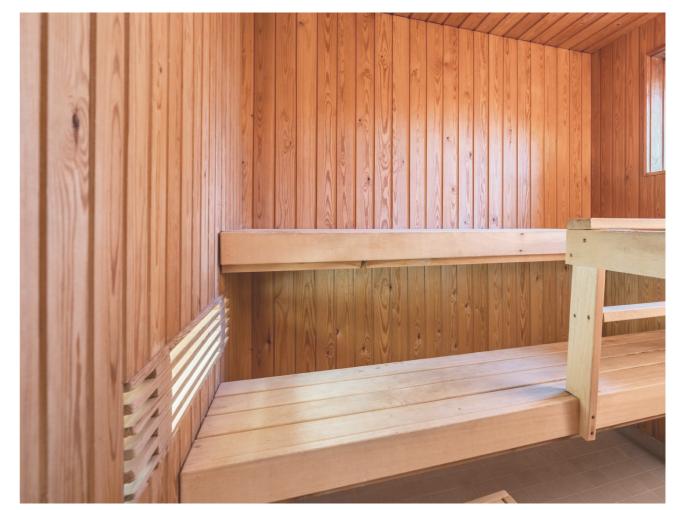
division of functions



laundry space

inspiration

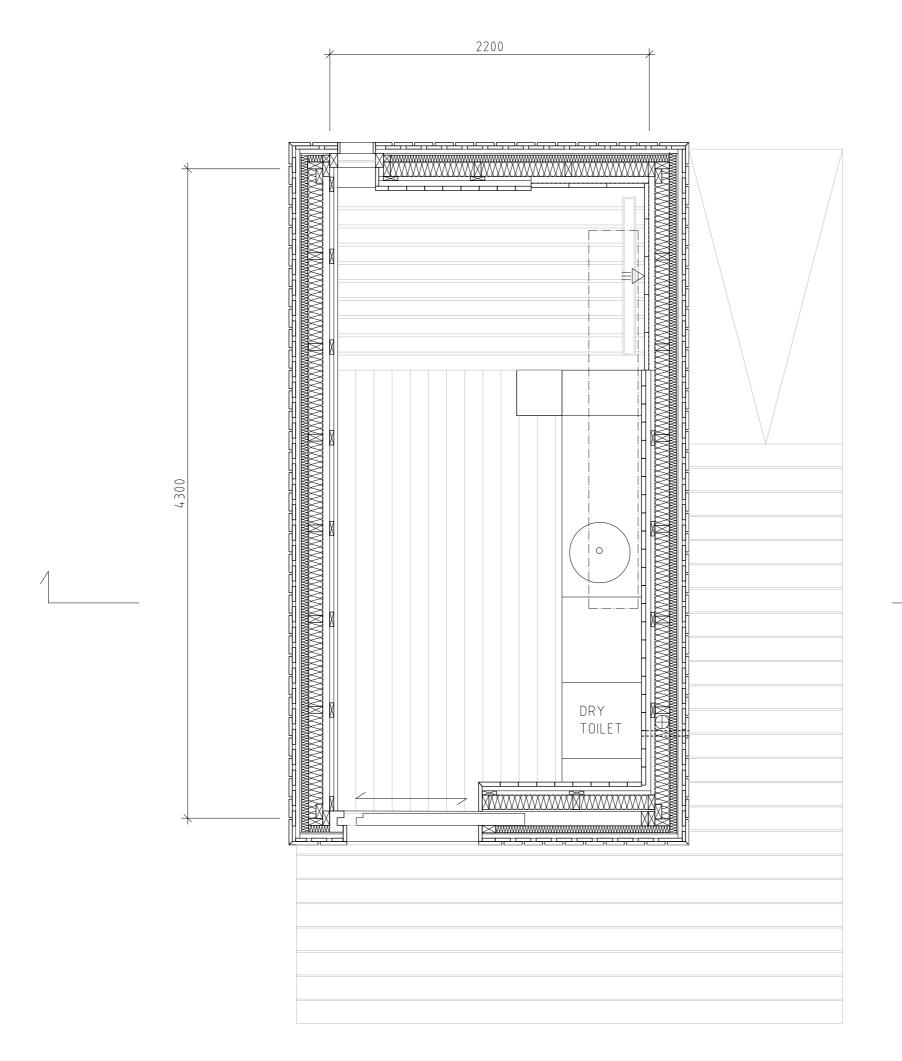




The wooden sauna

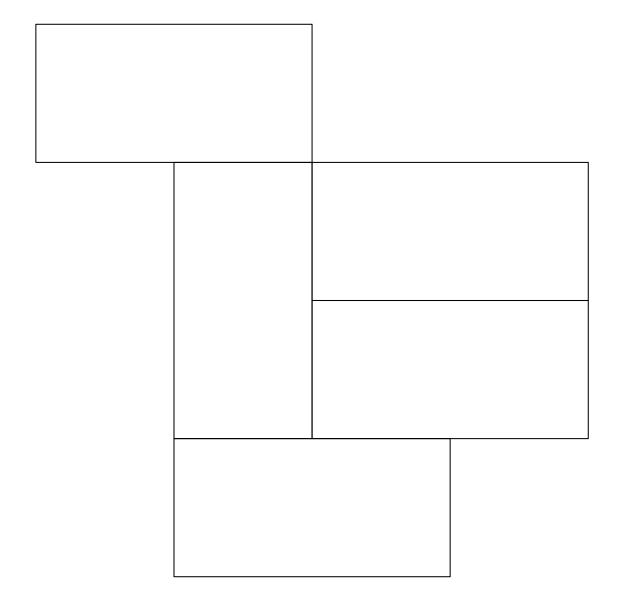


Roman bath. This one is in Bath.

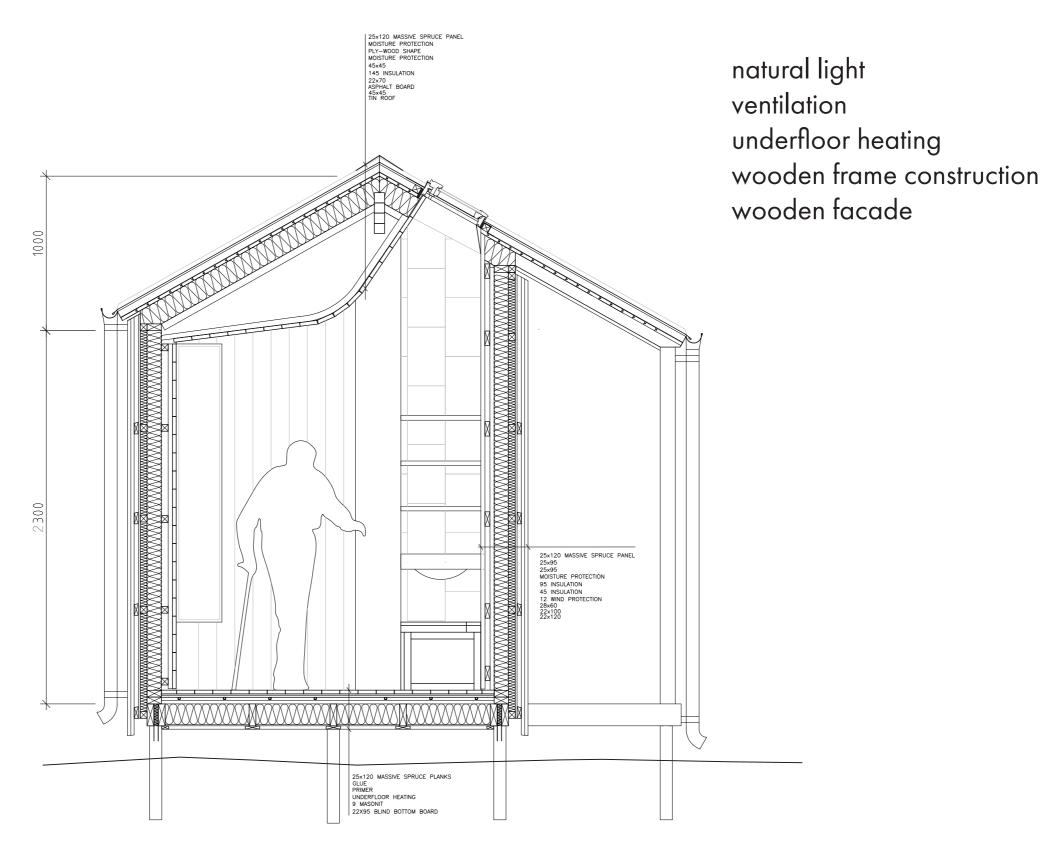


division of space toilet part of/hidden in a bench space for turnarounds

PLAN scale 1:25



The possibilities with the shape.
Twice as long as wide.



Concept.

Social Behavior.

Social behaviour during cooking and eating.

How do people behave during this time and what other activities are associated with it?

Adaptive space that changes depending on the users change depending on the users.

Dimensions.

Optimal working area for cooking and cosy dimensions for eating.

Dimensions which make sense.

What is important for an efficient workflow and how can this be combined with other actions?

Space that can be used for various activities.

Useful ciruclation.

Atmosphere.

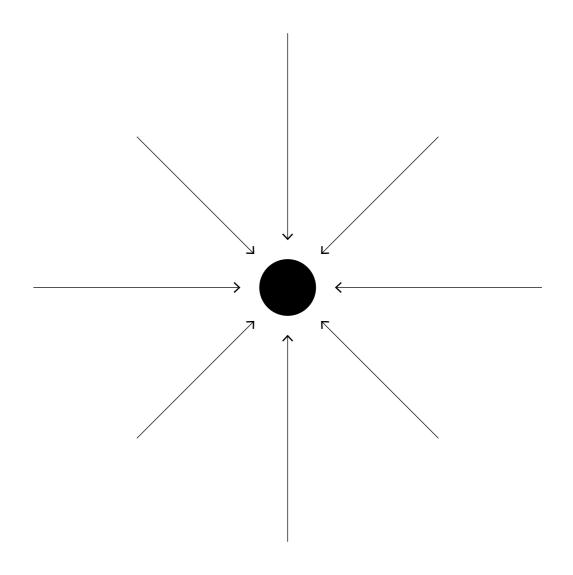
How can I combine my guidelines to create an architecturally pleasing space.

What makes sense?

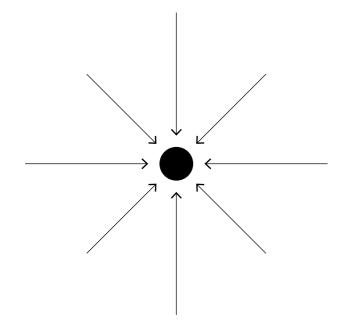
Materials that support the concept and are sustainable and local.

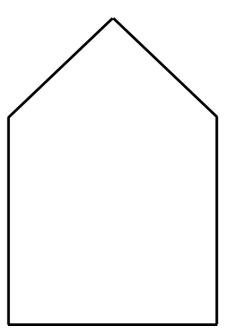
Concept.

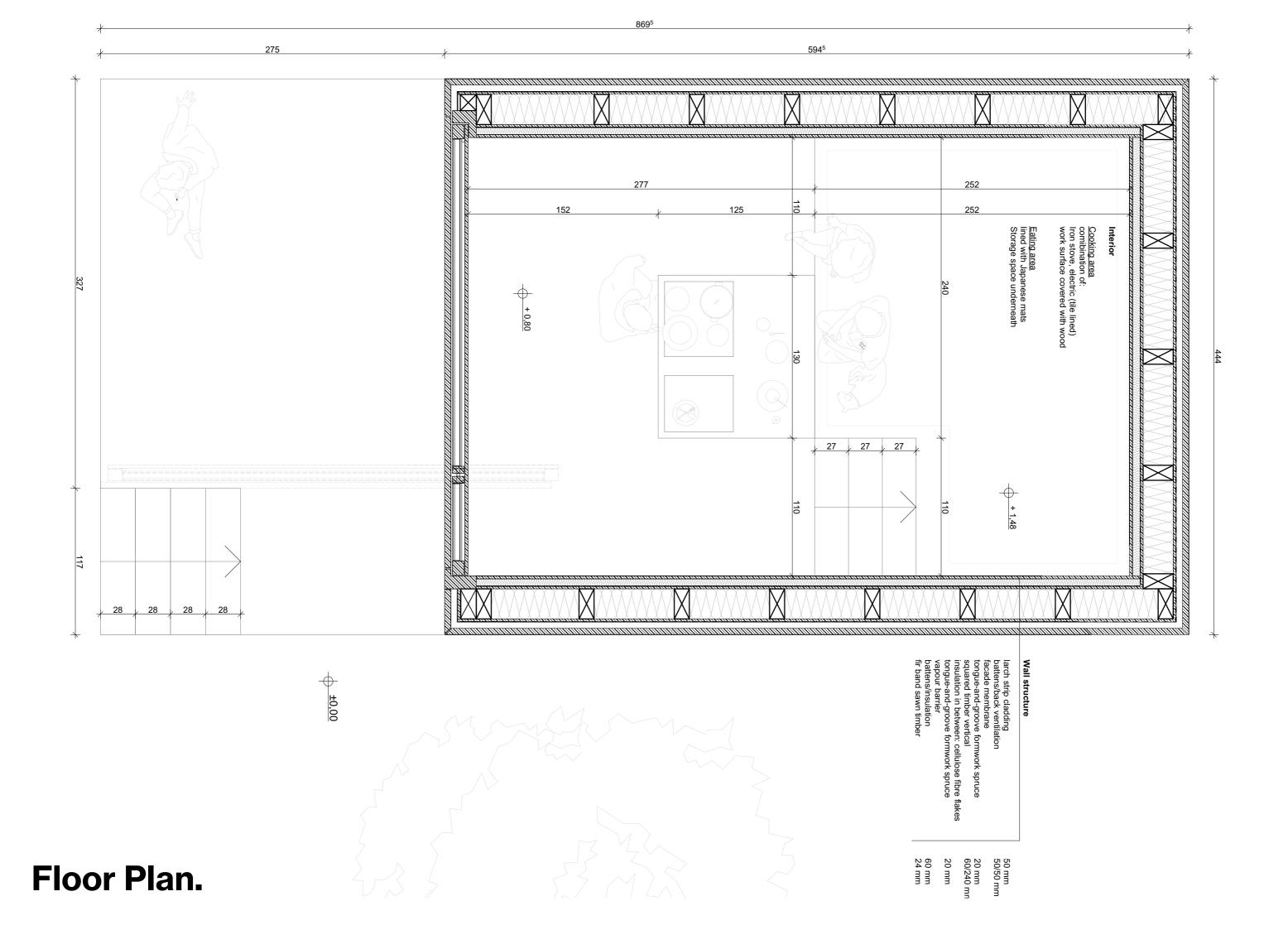




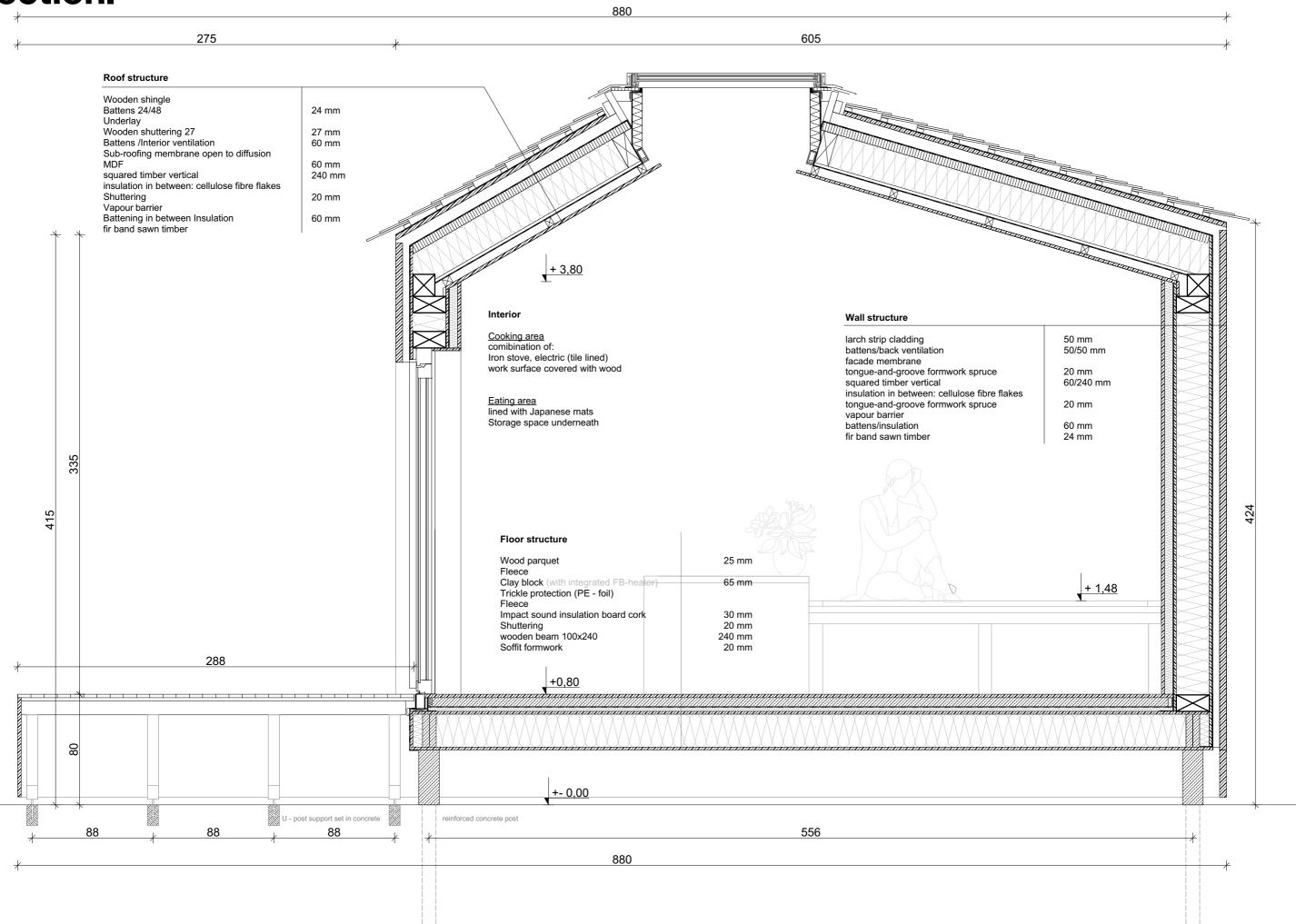
Concept.







Section.



Function



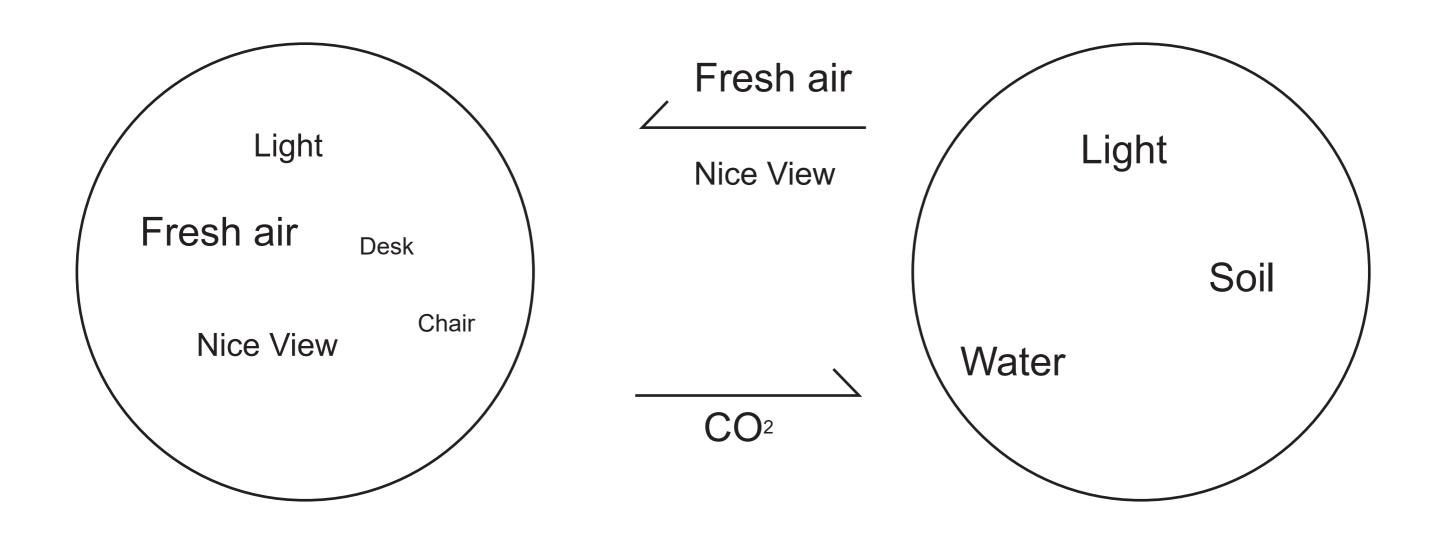
and

or

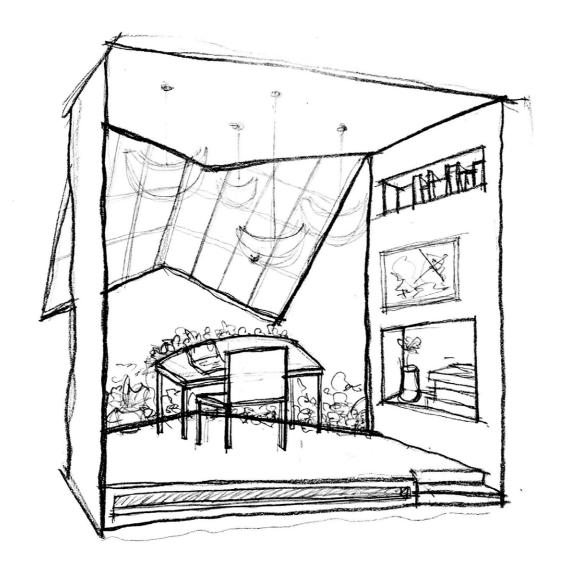


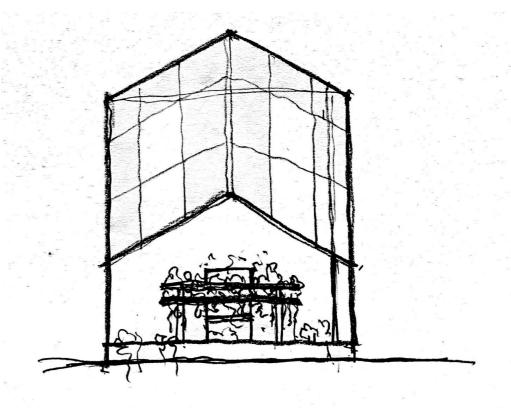
Work space

Flower house

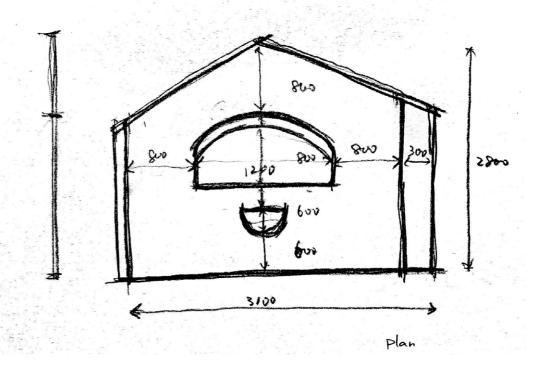


Space sketch

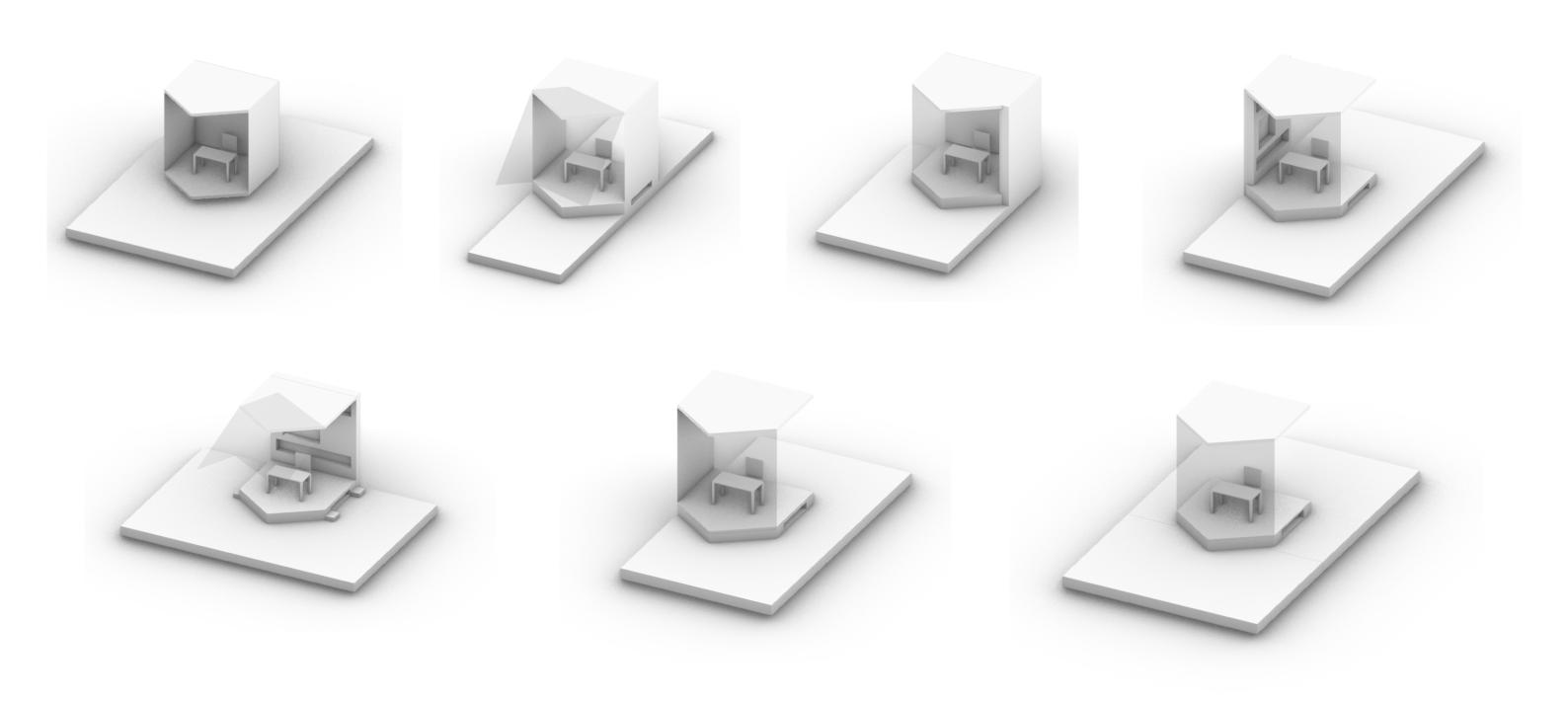




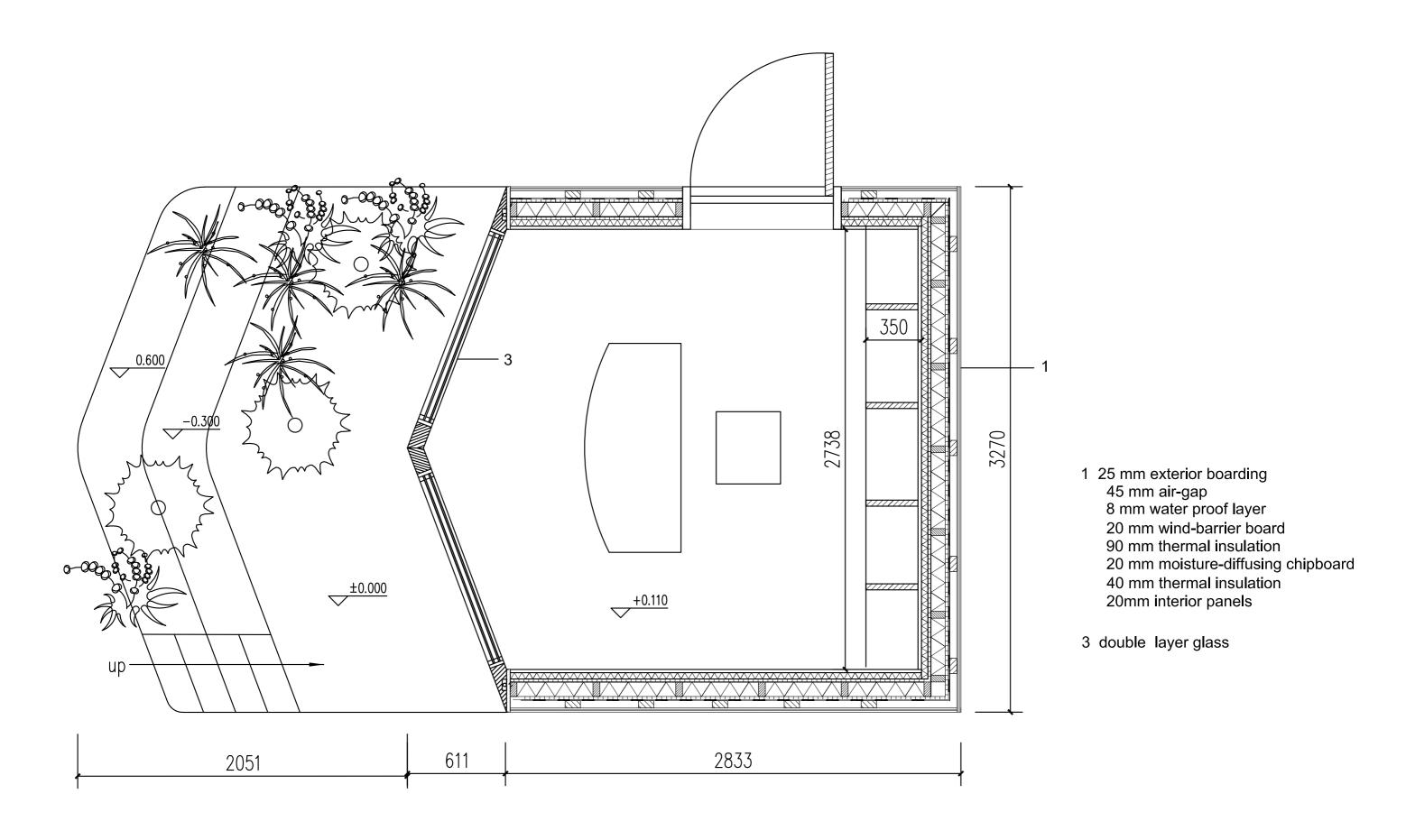
Elevation



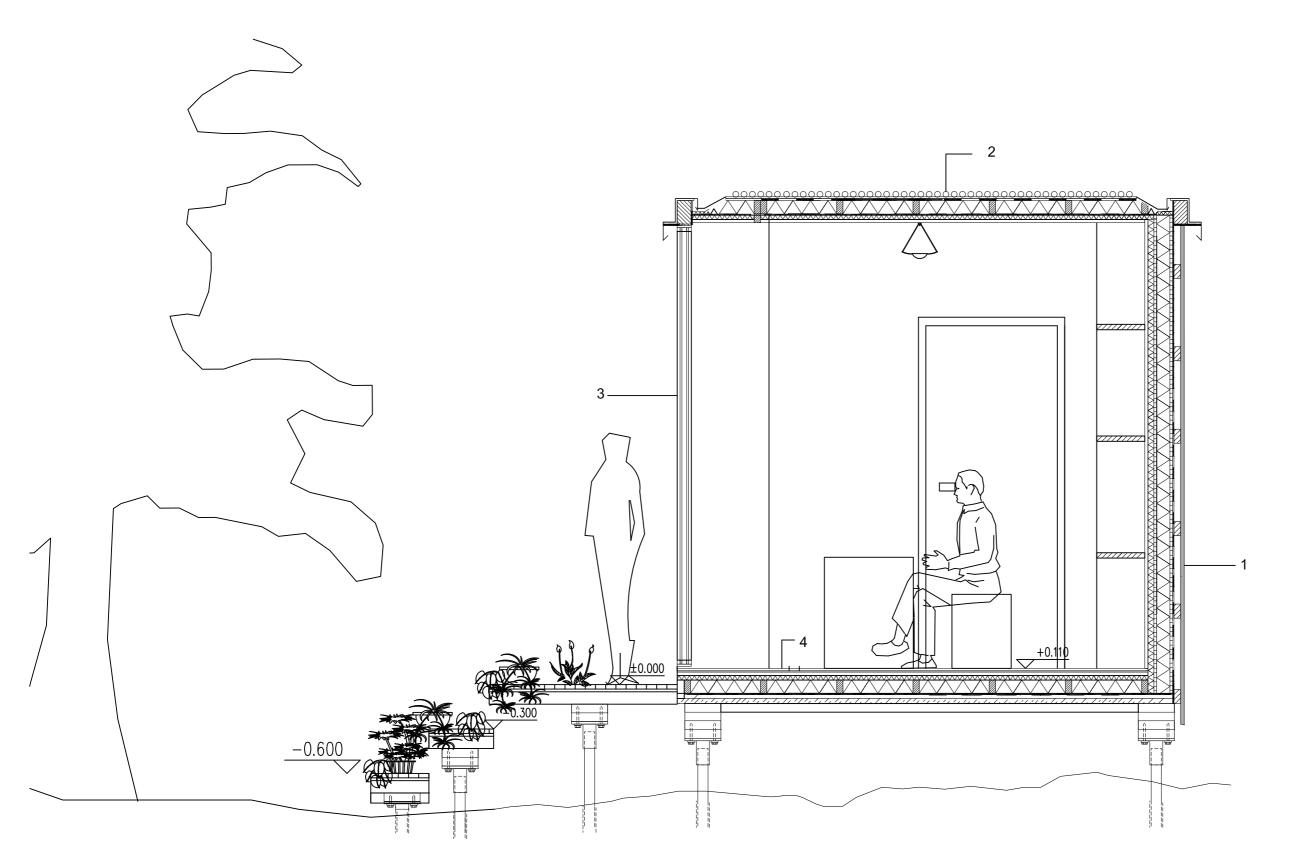
Deformation



Plan

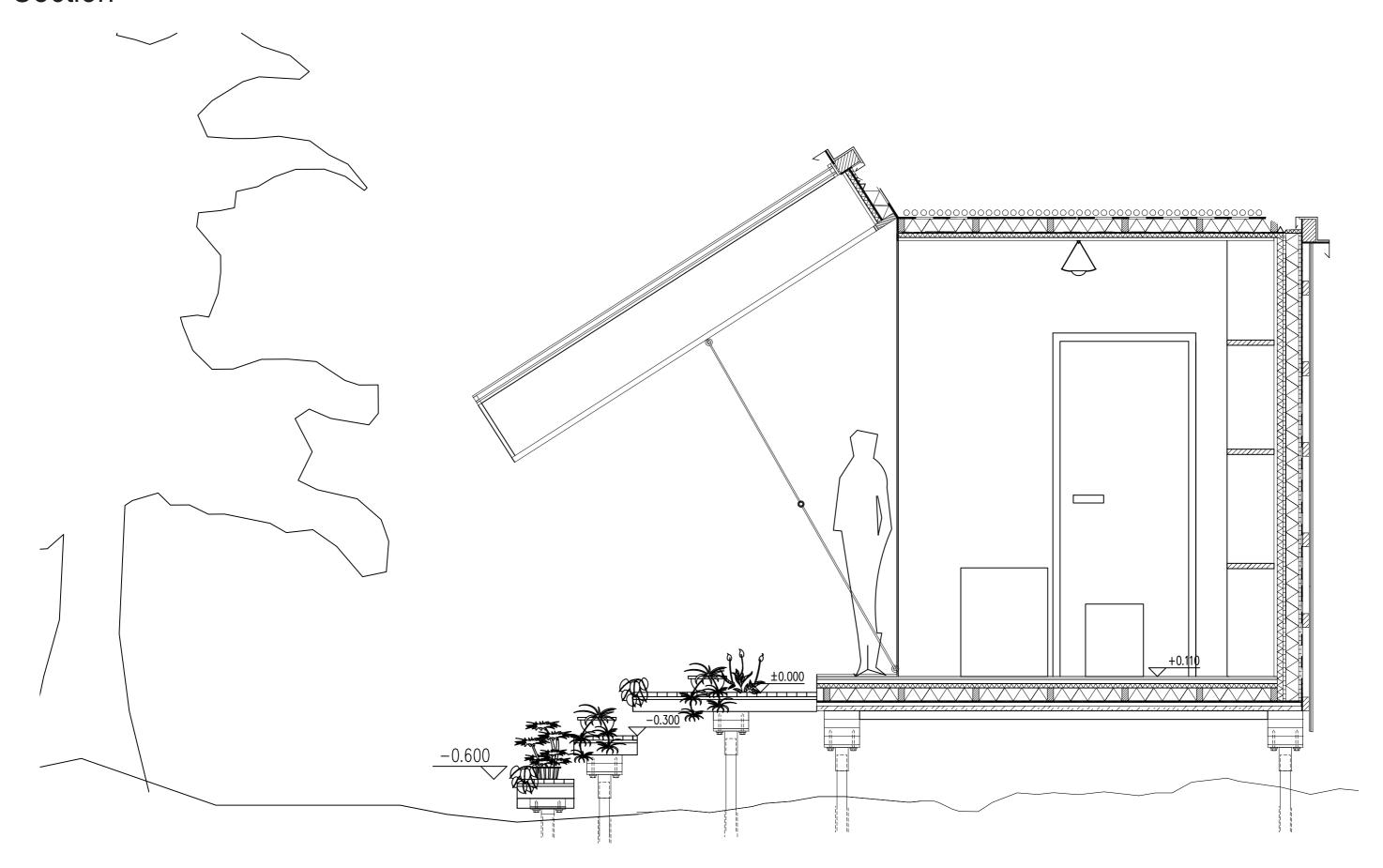


Section

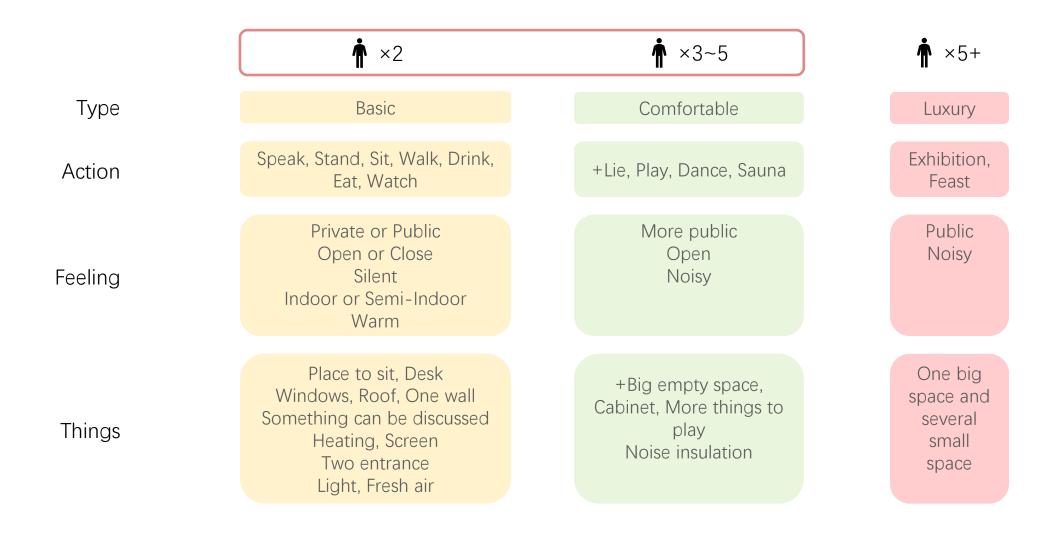


- 1 25 mm exterior boarding
 45 mm air-gap
 8 mm water proof layer
 20 mm wind-barrier board
 90 mm thermal insulation
 20 mm moisture-diffusing chipboard
 40 mm thermal insulation
 20mm interior panels
- 2 40mm gravel
 20 mm wind-barrier board
 8 mm water proof layer
 90 mm thermal insulation
 8 mm water proof layer
 40 mm thermal insulation
 20mm interior panels
- 3 double layer glass
- 4 wool carpeting
 25mm softwood boarded floor
 90 mm thermal insulation
 air-barrier
 40 mm thermal insulation
 8 mm water proof layer
 20 mm wind-barrier board

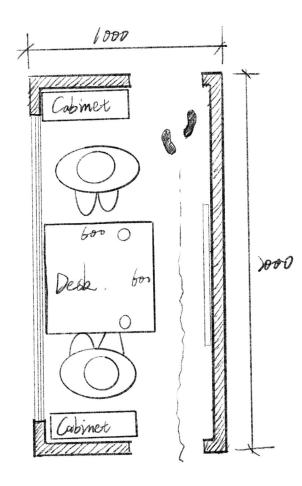
Section



Necessary things in social space

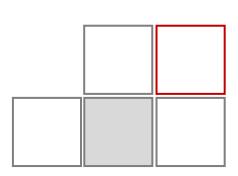


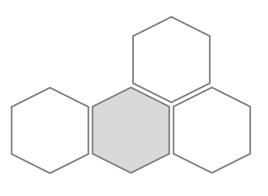
Space design

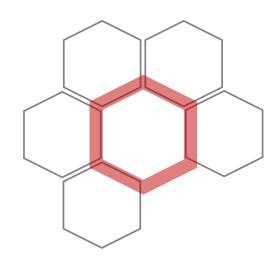


Basic

Space design

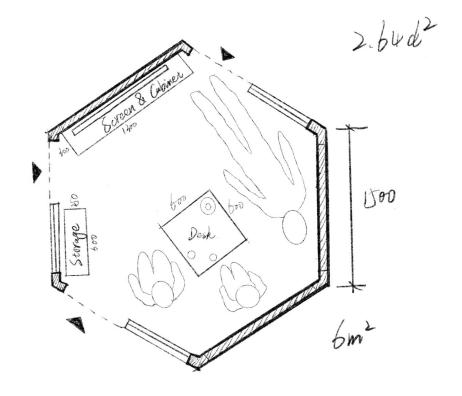






Flexibility

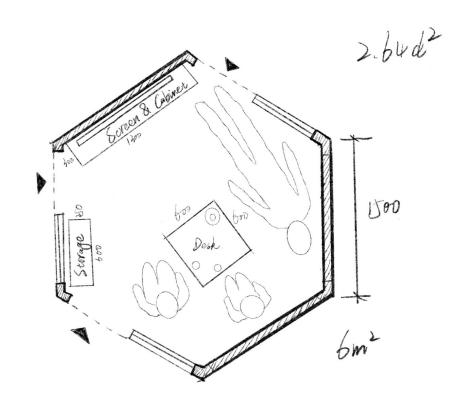
Space design

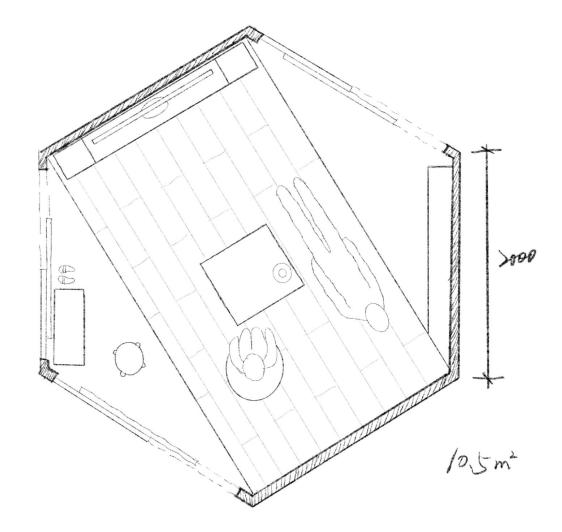




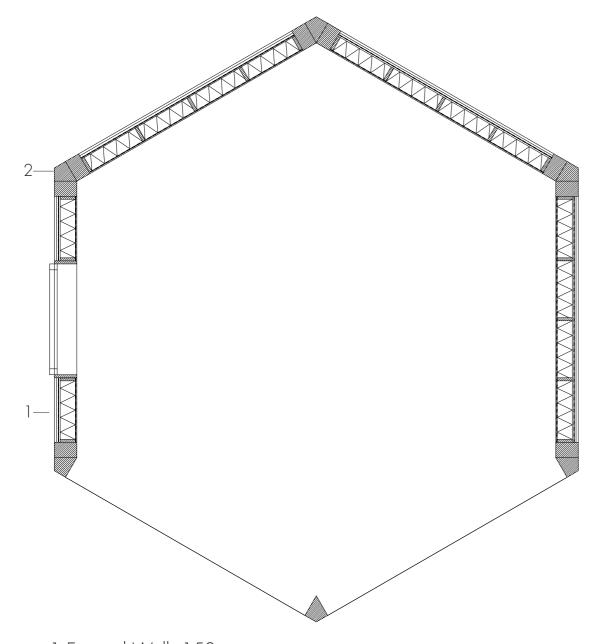
Comfortable: 6m²

Space design





Comfortable: 10.5m²



1.External Wall, 150mm 15mm Spruce plywood boards

15mm Air-gap

vapour barrier

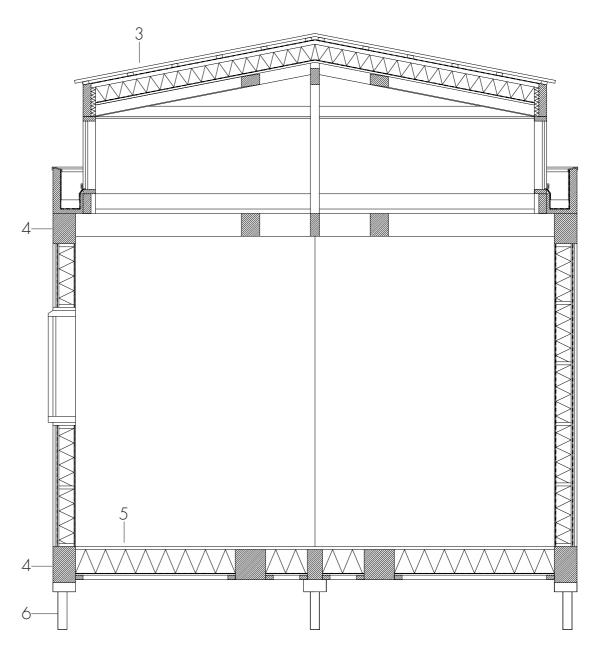
10mm Spruce plywood boards

100mm Wood fibre wool, 20x100 plywood boards

vapour barrier

10mm Spruce plywood boards

2.Spruce Column



3.Roof

20mm Spruce plywood boards 20mm Ait-gap, 20x30mm battens

vapour barrier

20mm Plywood boards

100mm Wood fibre wool

vapour barrier

20mm Spruce plywood boards

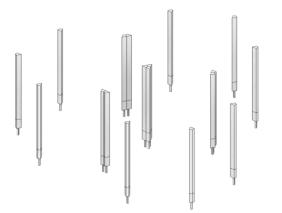
4.Spruce beam, 200x150 mm 240x150 mm

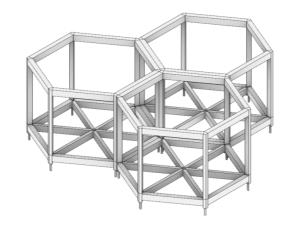
5.Floor

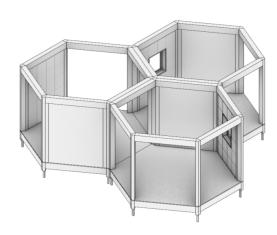
20mm Birch plywood boards 150mm Wood fibre wool vapour barrier

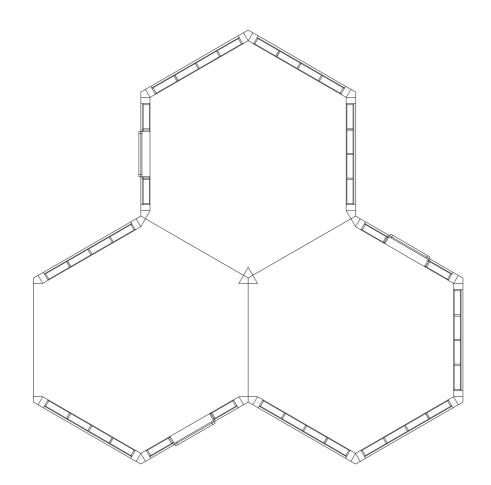
20mm Spruce plywood boards

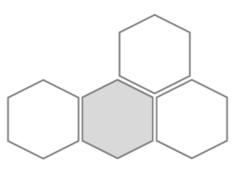
6.Levelable column base

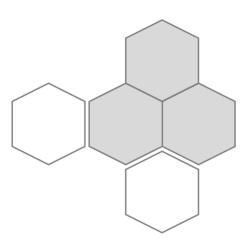












The structural frame of the building is arranged in a hexagonal grid with a side length of 2 meters, the walls can be replaced with doors, and can be easily assembled and disassembled, and can be expanded horizontally. The prototype consists of three modules, which are arranged in a hexagonal plane.

Reference

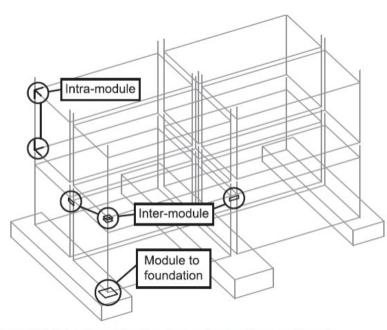


Figure 3.5.1 Drawing of the three types of connections mentioned.

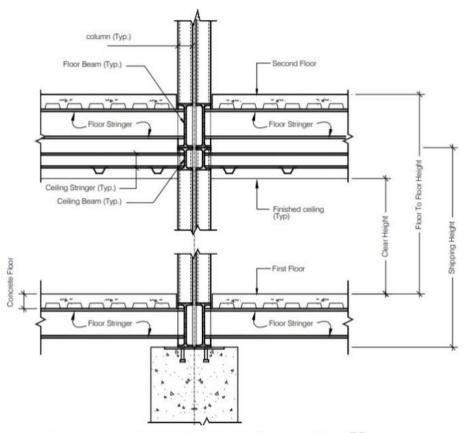


Figure 3.5.2 A section of a typical modular floor assembly, retrieved from [36]

Typology study



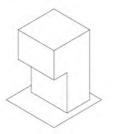




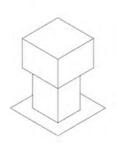
INSIDE × OUTSIDE

Typology study

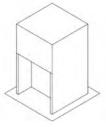




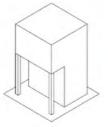




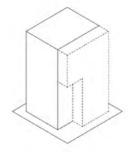


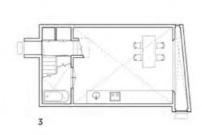






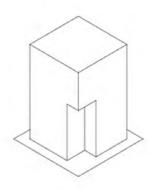




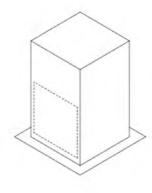














Basic to comfortable

Type

Basic

Comfortable

Luxury

Actions

stand
walk
enter
(outside actions)
/
mix use with other funtions
observe
(inside actions)

stand
sit
walk
enter
observe
(outside actions)
/
be observed
relax

think

(inside actions)

read

stand
sit
walk
enter
observe
(outside actions)
/
be observed
relax
eat
think
read
performance
socail
(inside actions)

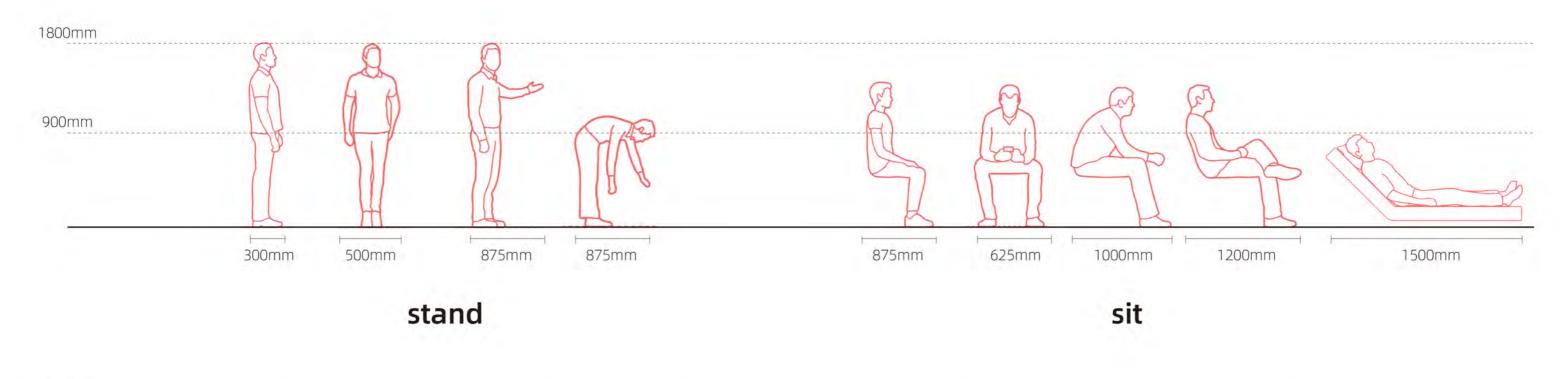
Things

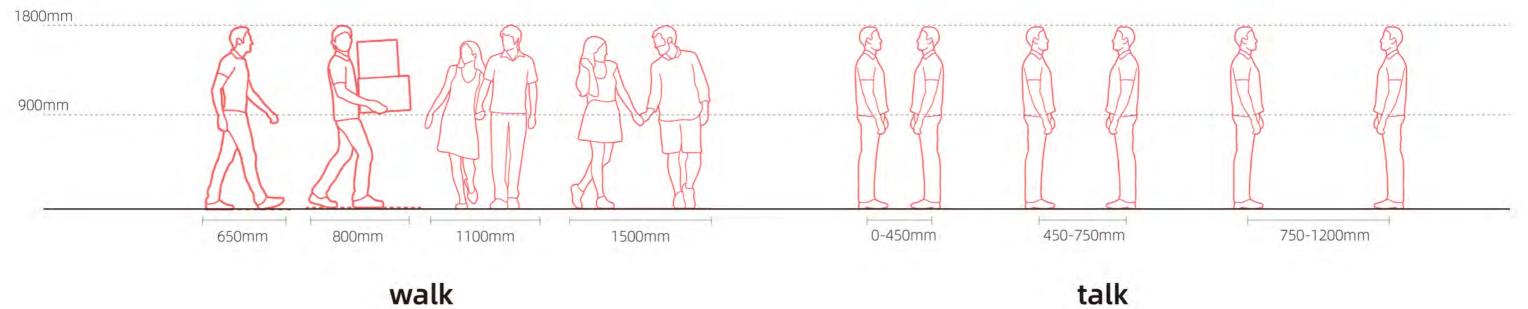
Roof, door, wall, window, goods required for other functions

Roof, window, door, wall, chair, sofa small garden, plants, light

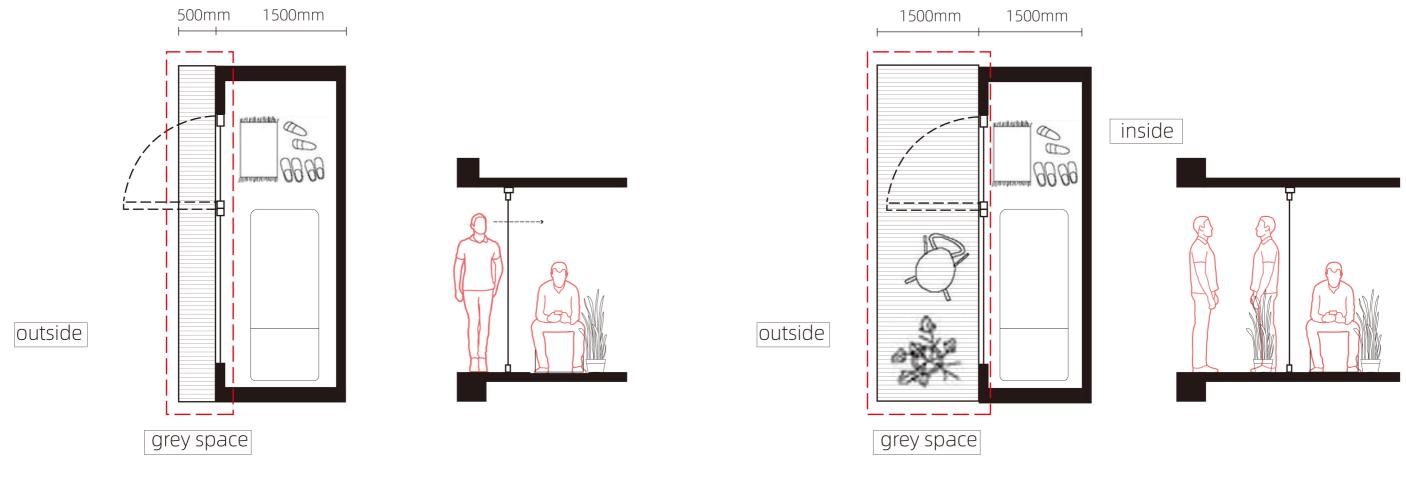
Roof, window, door, wall, chair, small garden, many plants, grass, outdoor table, more light

Basic to comfortable

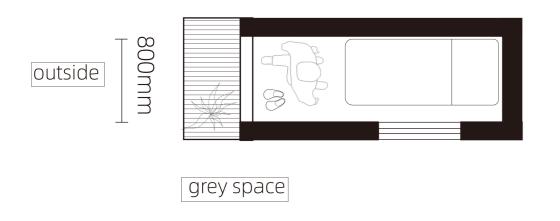


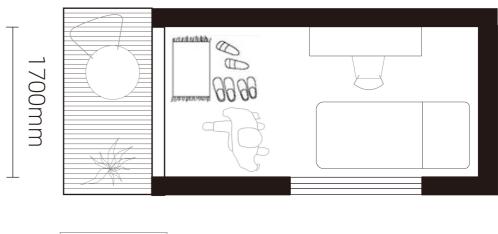


Design



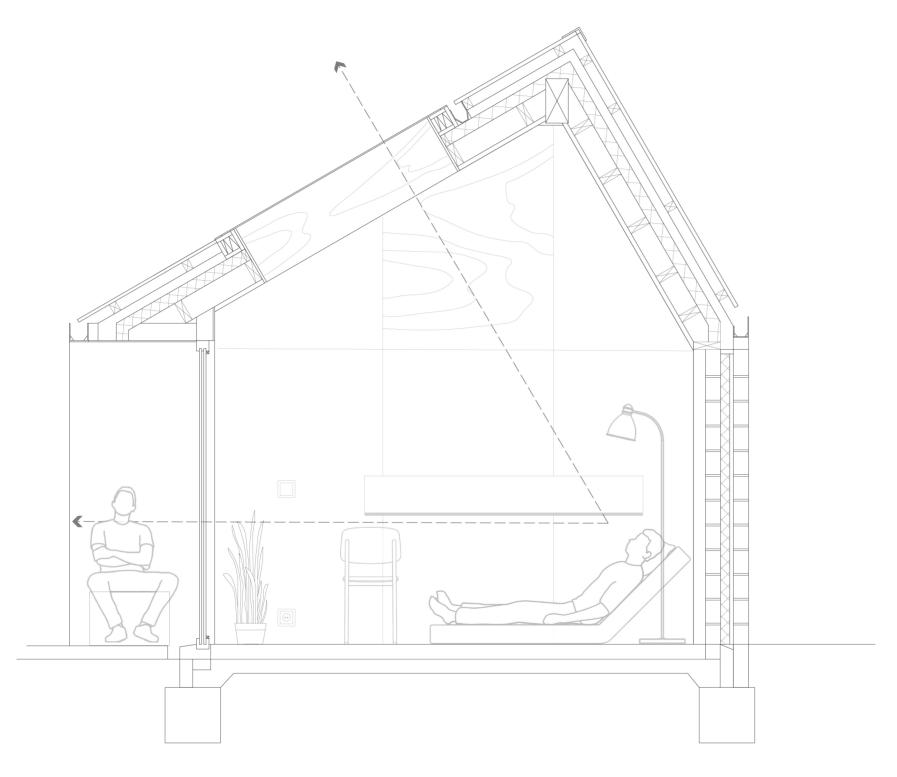
Basic comfortable

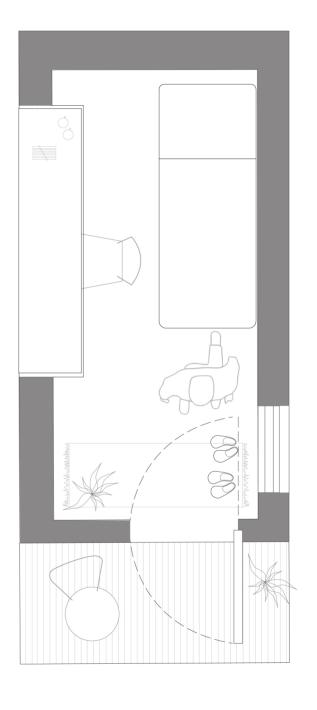




grey space

Design





SECTION 1:25 PLAN 1:25