Rethinking Migration

Redesigning refugee camps

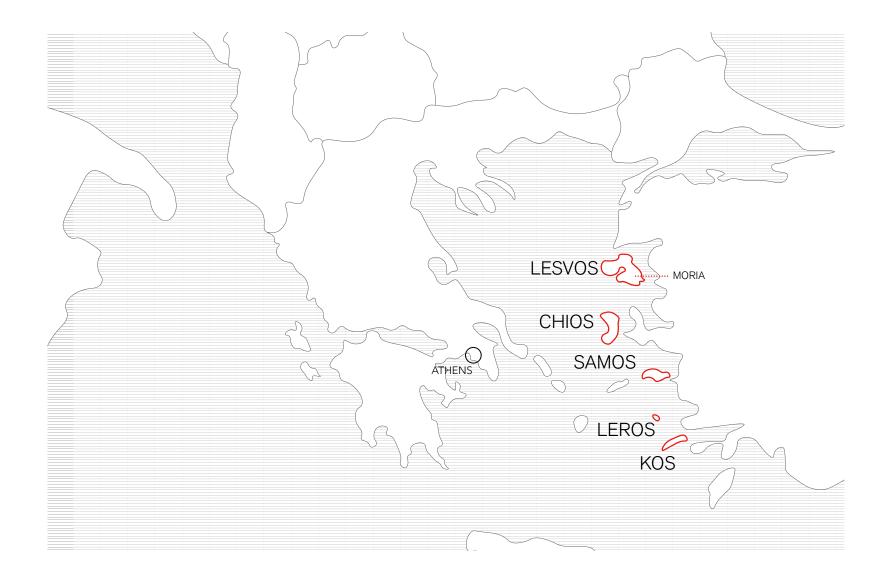
The case of Moria

Marcel van der Maas

Studio aE



8 september 2020 RIC Moria



location of Moria on Lesvos Island, Greece.

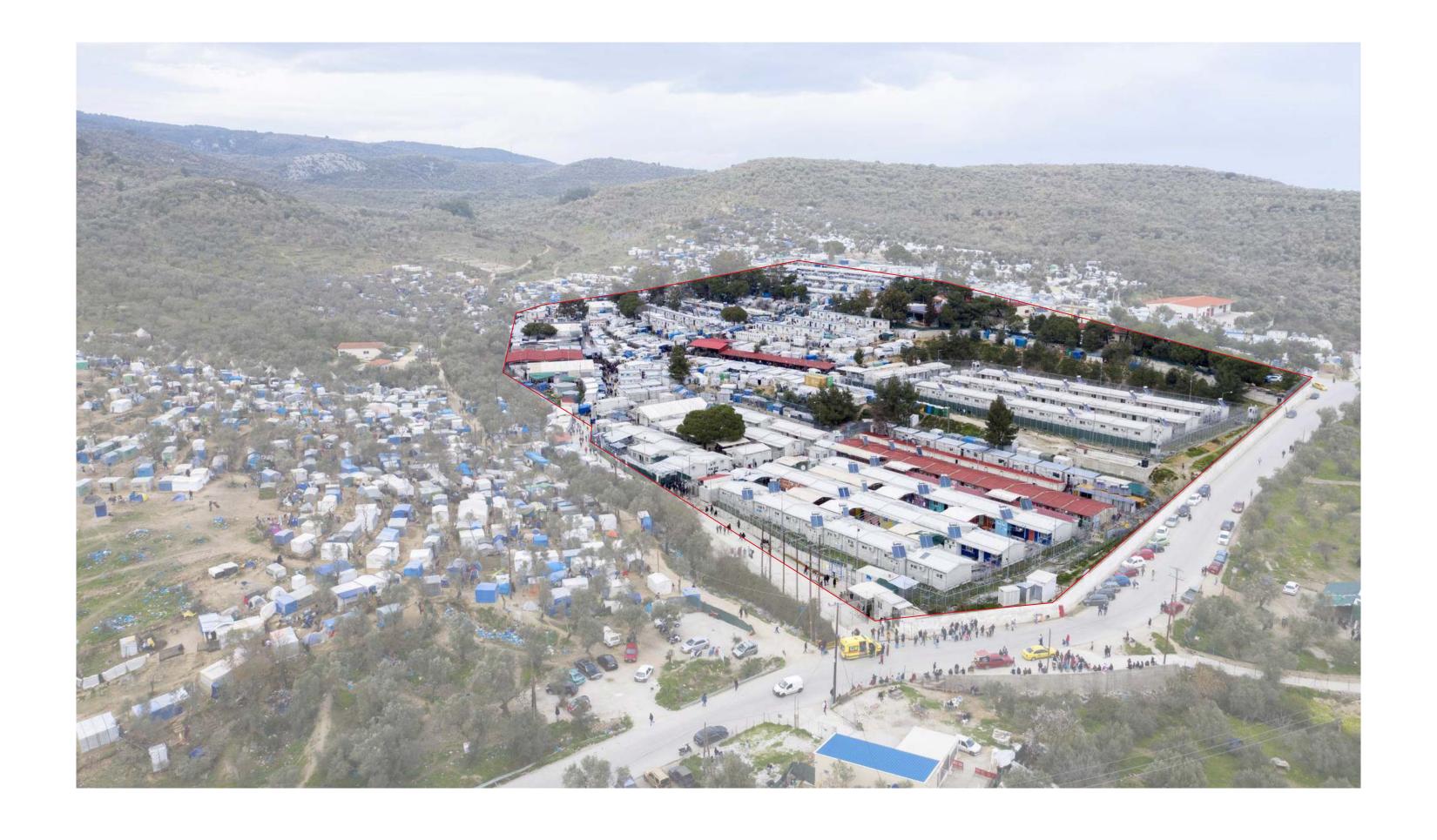
Background

Living conditions before 8th of September 2020



Existing Situation

4



Existing Situation

https://www.is.fi/ulkomaat/art-2000006429525.html Seppo Kärki



'informal' settlement - tents.



trying to make a 'home'?

Research



ingenuity in shelter construction.





make-shift shop selling baked bread.



baker in the camp.



more ingenuity. adding a door for privacy.



MOTG Tents.

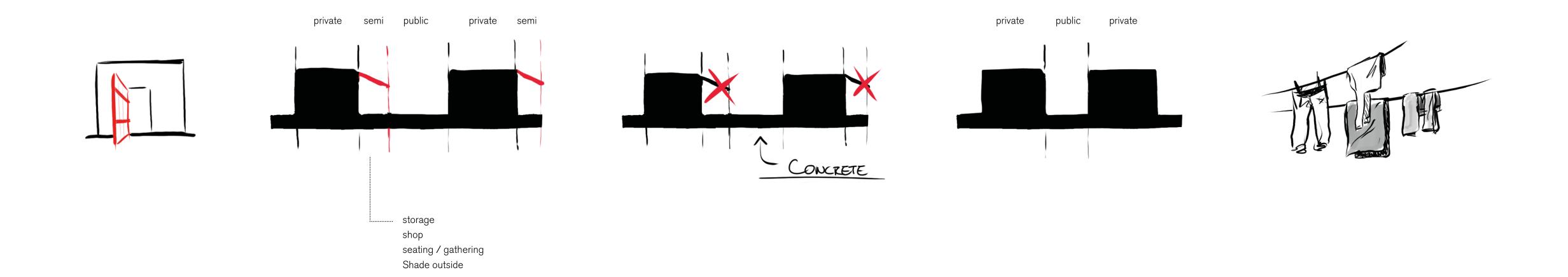




IKEA shelters, public / private?

Existing Situation - different types of shelter

15



the use of space and need for privacy.

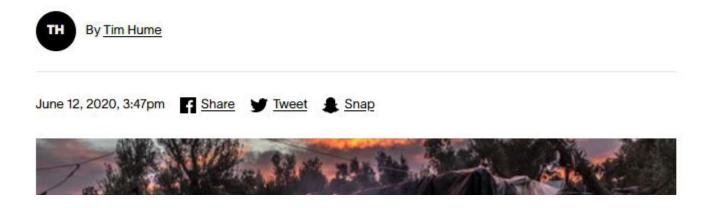
Research

Existing Situation - conclusions

World News

Violence Is Exploding in Europe's Most Notorious Migrant Camp

Residents of the Moria refugee camp on the Greek island of Lesvos are living in fear under lockdown and a spate of vicious knife attacks.



The attacks have prompted some residents to flee the camp altogether, while many who remain are terrified to leave their shelters at night, arming themselves in their beds.

"When you go to sleep, you just pray you wake up alive the next morning," said one 31-year-old asylum seeker, who was threatened outside his tent just weeks ago. "We're obliged to sleep with something to defend ourselves with."

The factors behind the attacks are complex, but people who live or work in the camp say the appalling conditions and severe overcrowding have created a perfect breeding ground for violence. A recent coronavirus lockdown imposed over Moria since March has only fuelled the problem, they say, stranding terrified asylum seekers with their tormentors, and ratcheting up the pressure cooker atmosphere in the camp.

violence.

Background

Living conditions before 8th of September 2020

https://www.vice.com/en/article/5dzg7k/moria-refugee-camp-violence-attacks



waiting.

Background

Living conditions before 8th of September 2020

18

from an architect's perspective.

Positioning / statement

Background

state of the art theory and practice on camp design

Research

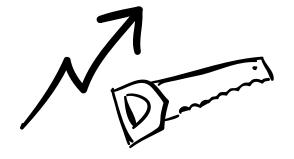
overall design question straw as a building material vision for the future character of Lesvos

Construction and design

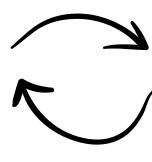
experience life in this place (from camp to city)







(economically) active - having control



interdependence - getting rid of isolation



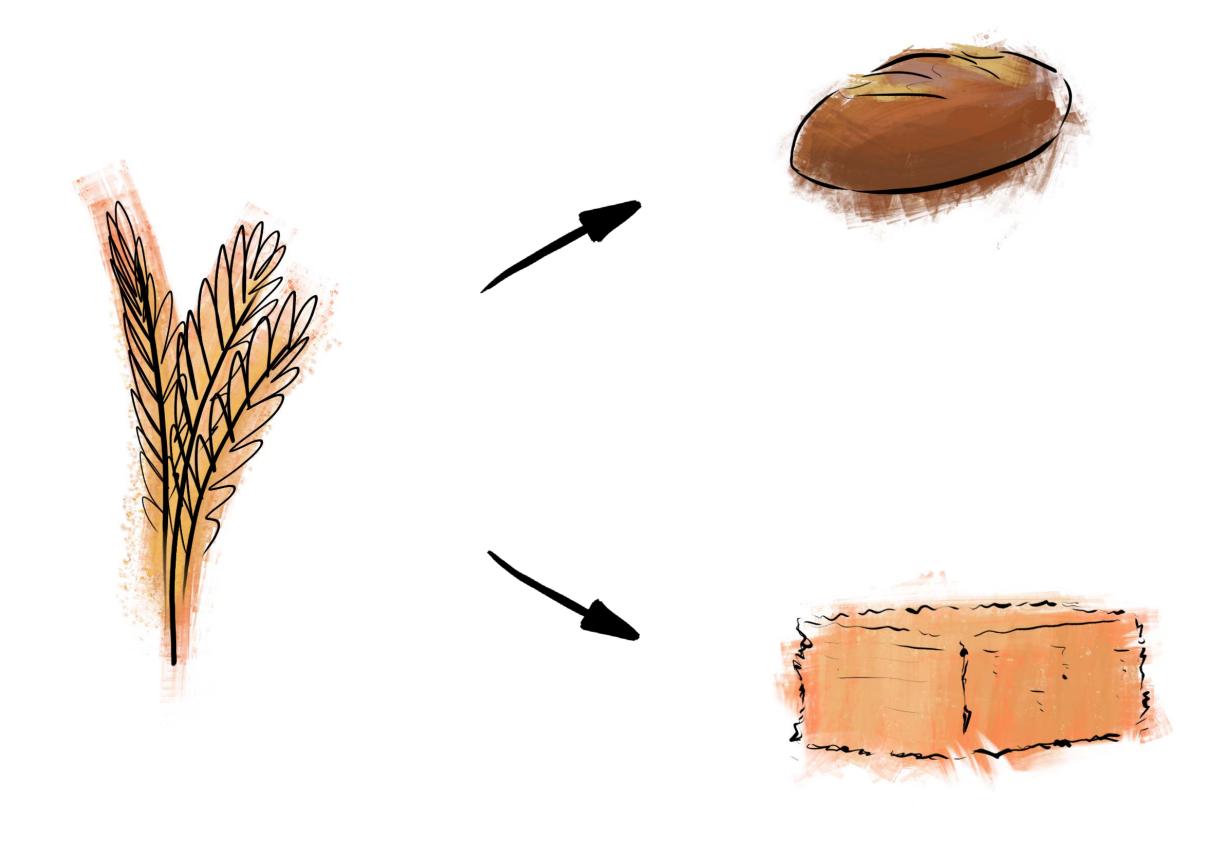
integration

State of the art theory and practice on refugee camp design

"How to redesign the layout and shelters of Reception and Identification Camp Moria, Lesvos, into a sustainable, affordable, co-created and climate appropriate design, fostering (economic) activity and interdependence with its surroundings?"



Thematic Research



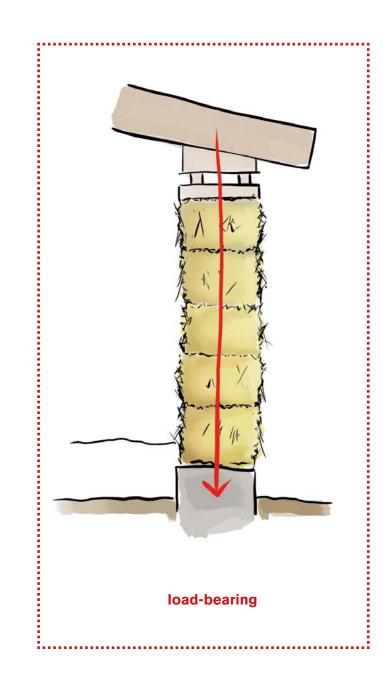
two-fold application of straw. food and building material.

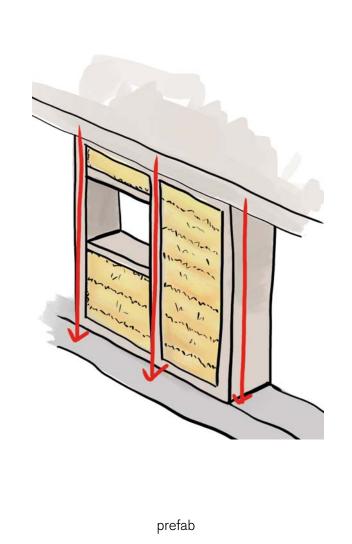
Thematic Research

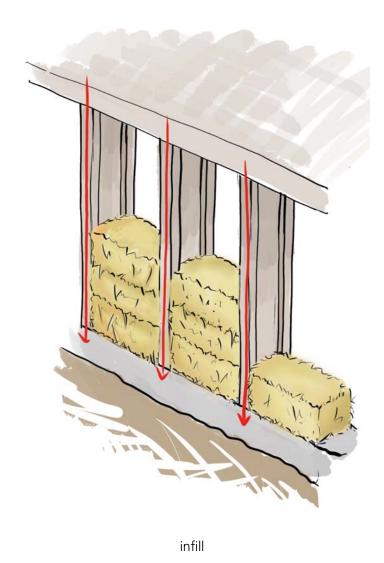


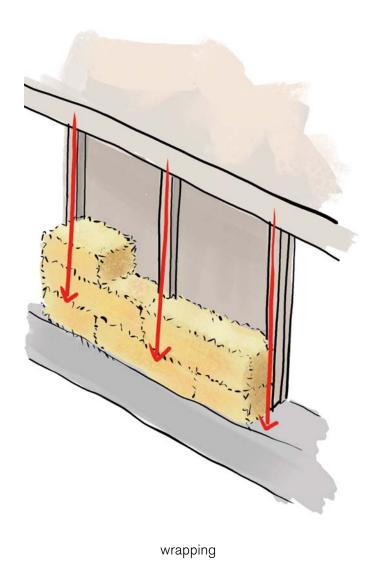
four main construction methods with straw.

Thematic Research



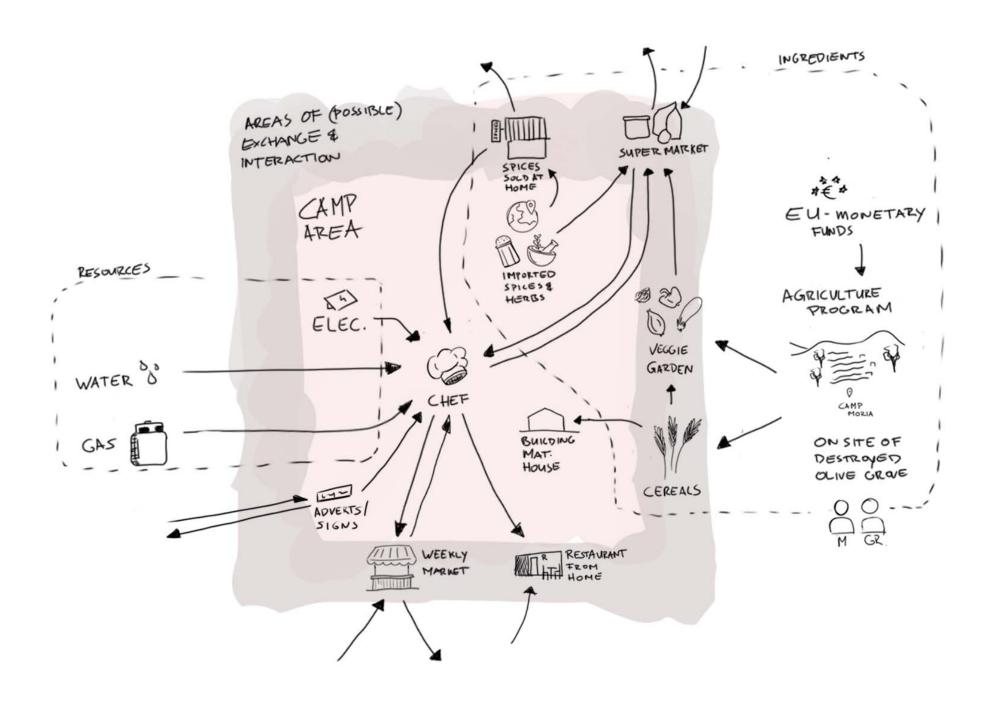






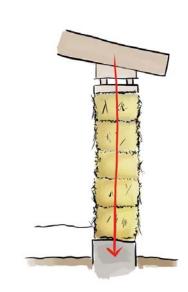
load-bearing; low-tech, low tradeskill.

Thematic Research

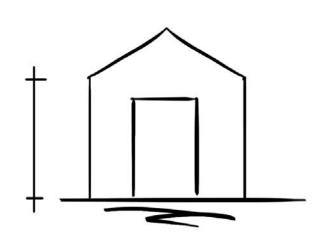


flow of goods and services.

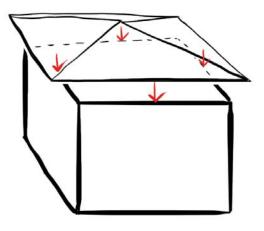
Thematic Research



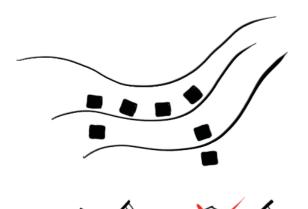
load bearing straw bale walls



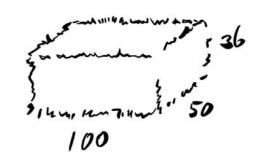
height - one storey smaller bales - can be carried by people



square type.
equal distribution of roof loads on
walls, easy construction methods



free standing houses to account for terrain changes, minimize terrain prep



size of straw bale



19,8 kg at 110 kg/m³



foundation of used car tires filled with concrete

construction parameters of the building system.

Thematic Research



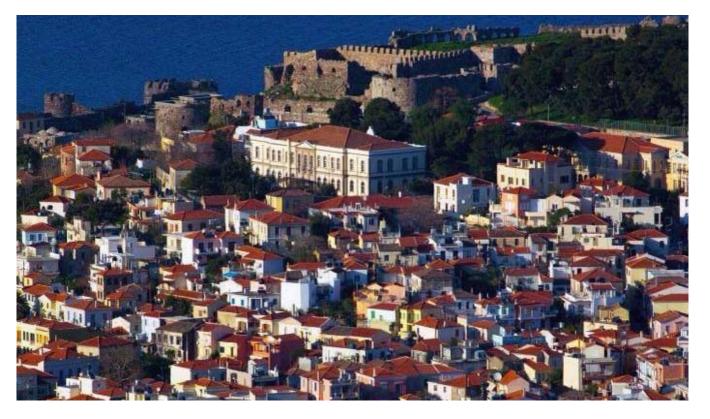












Research

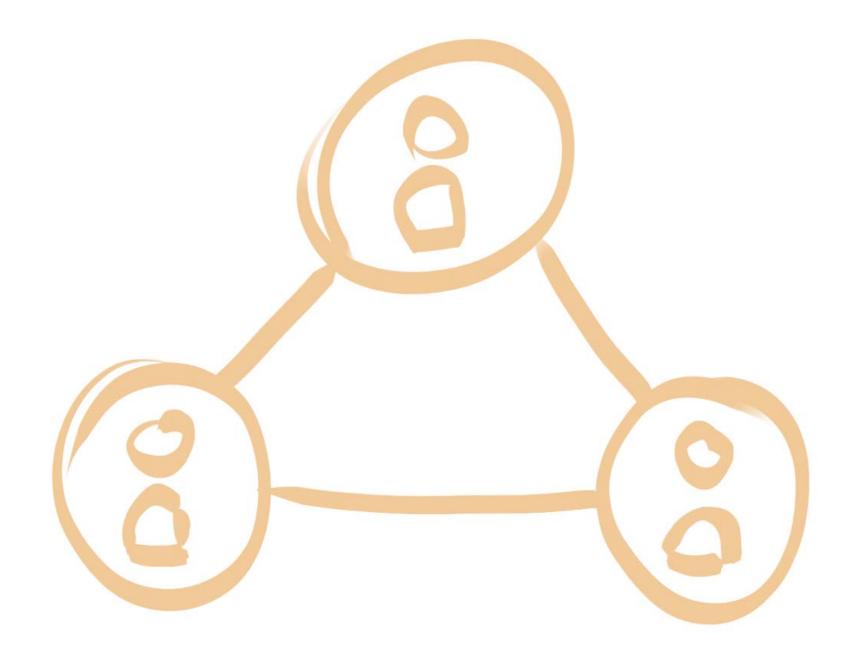
Character of Lesvos



streets of Mytilene.

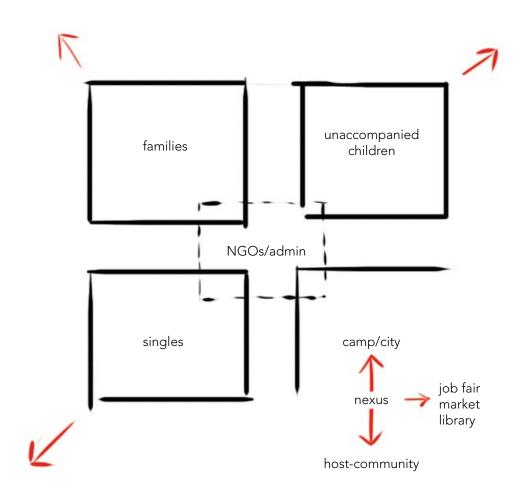
Character of Lesvos

DESIGNUrban Design



need for structure.

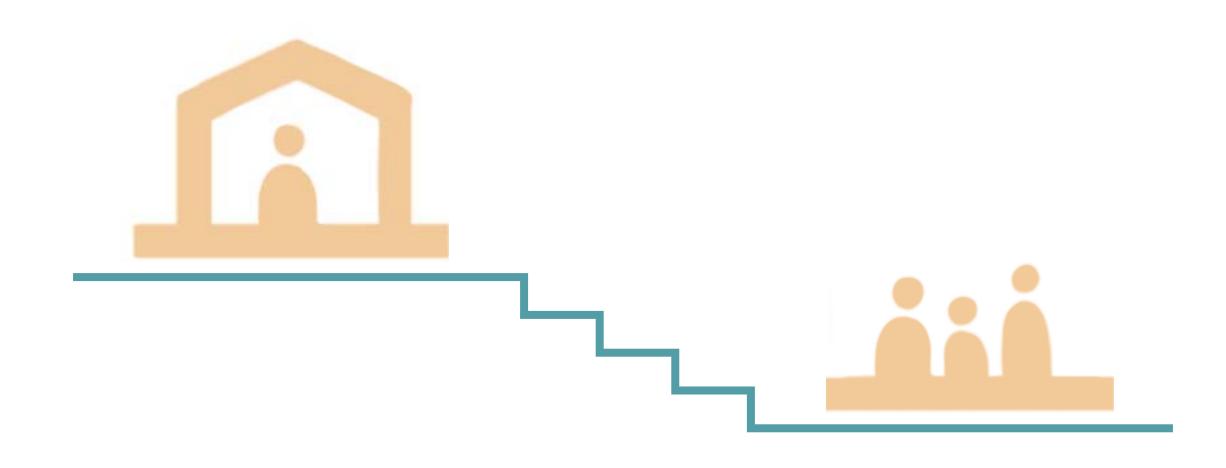
DesignOrganisational structure



diagrammatic lay-out refugee city

Design

Urban design

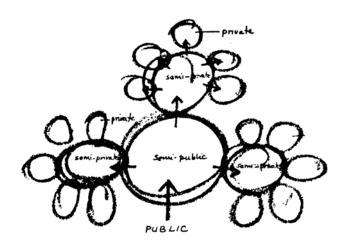


safety. sense of belonging. community.

Design

Urban design

Diagram showing a hierarchically organized housing area with private, semiprivate, semipublic, and public spaces. The clear structure strengthens natural surveillance, helps the inhabitants know which people "belong," and improves the possibility for making group decisions concerning shared problems. (From Oscar Newman, Defensible Space [41].)



in the residential group are, it is true, publicly accessible, but have - because of close connection to a limited number of residences - a semipublic character. The communal spaces in the neighborhood are somewhat more public, while the city's town hall square is a totally public space.

The scale between public and private also can be considerably more differentiated than mentioned here. Or it can be considerably less defined, as in the case with the multistory residence or the single-family house in the undefined city structure. In many such cases, almost no middle ground or transition between private and very public territory exists.

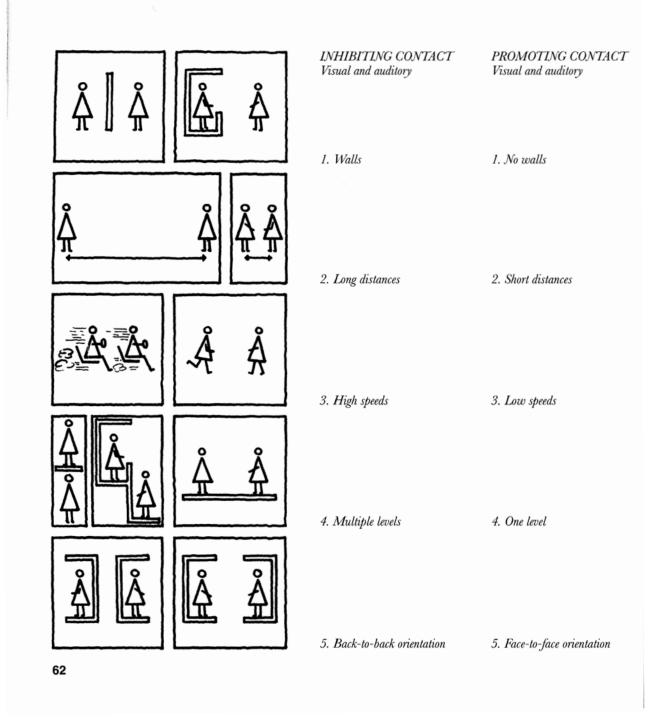
territories, security, and sense of belonging

The establishment of a social structure and corresponding physical structure with communal spaces at various levels permits movement from small groups and spaces toward larger ones and from the more private to the gradually more public spaces, giving a greater feeling of security and a stronger sense of belonging to the areas outside the private residence. The area that the individual perceives as belonging to the dwelling, the residential environment, can extend well beyond the actual dwelling. This in itself may result in greater use of public spaces – such as parents permitting young children to play outdoors at an earlier age than they otherwise might.

Establishing residential areas so that there is a graduation of outdoor spaces with semipublic, intimate, and familiar spaces nearest the residence also makes it possible to know the people in the area better, and the experience of outdoor spaces as belonging to the residential area results in a greater degree of surveillance and collective responsibility for this public space and its residences. The public spaces become part of the residential

the senses and communication

Physical arrangement can promote or prevent visual and auditory contact in at least five different ways.



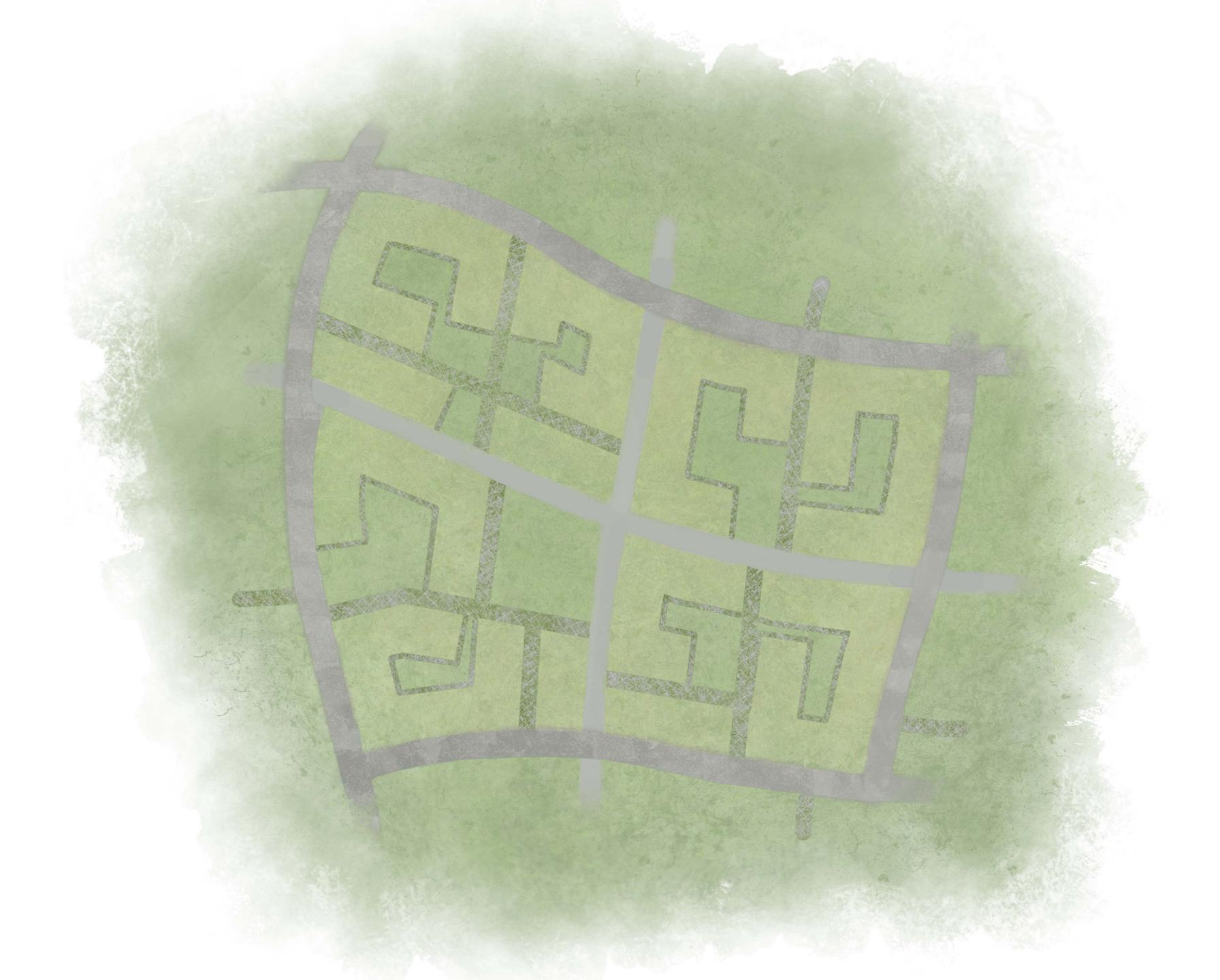
35

Gradual transition between private and public, and tools to encourage social interaction. Life between buildings, using public space. Jan Gehl.

Design

Urban Design

Life between buildings, using public space. Jan Gehl



Design

Urban framework

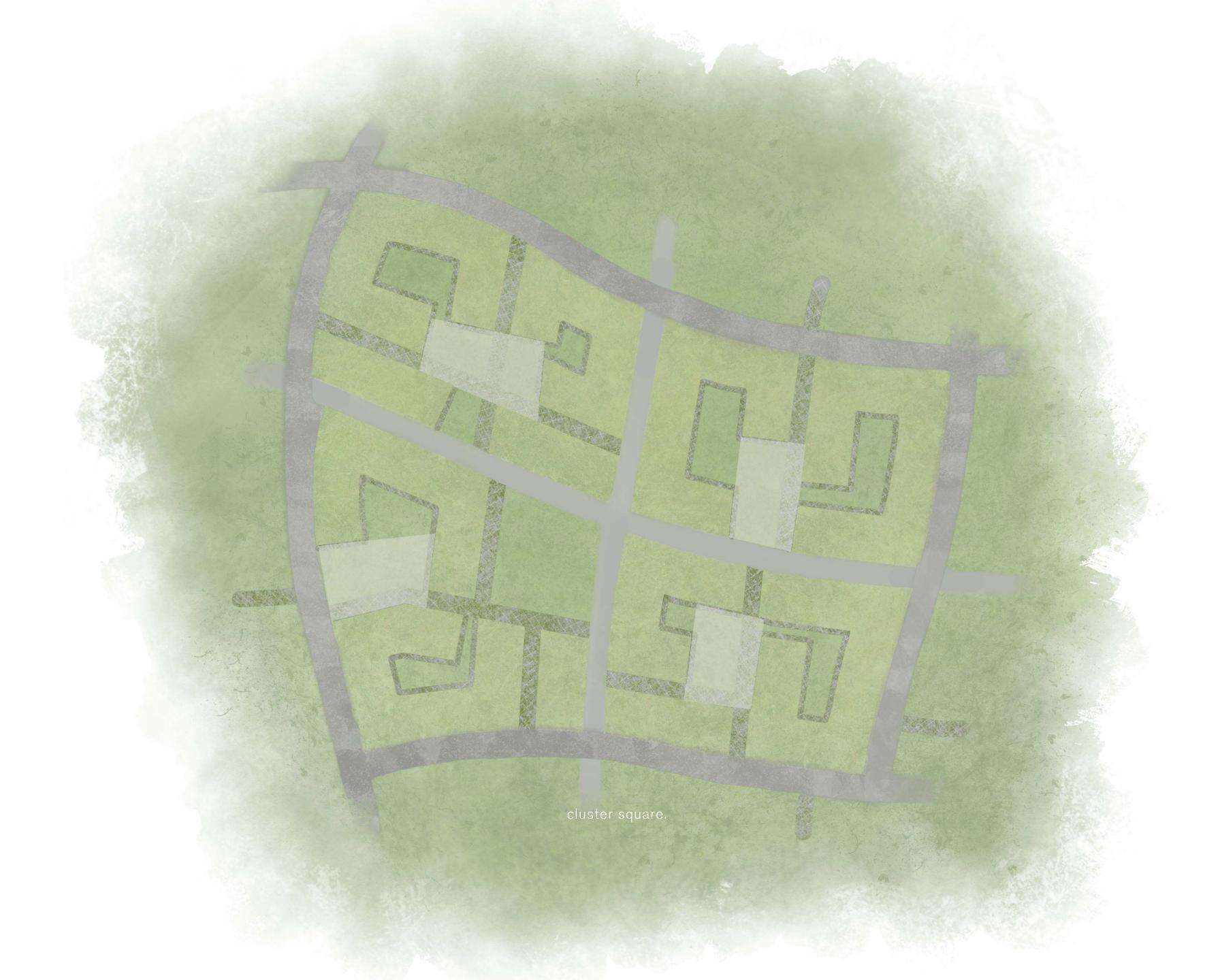
Scale 1:600



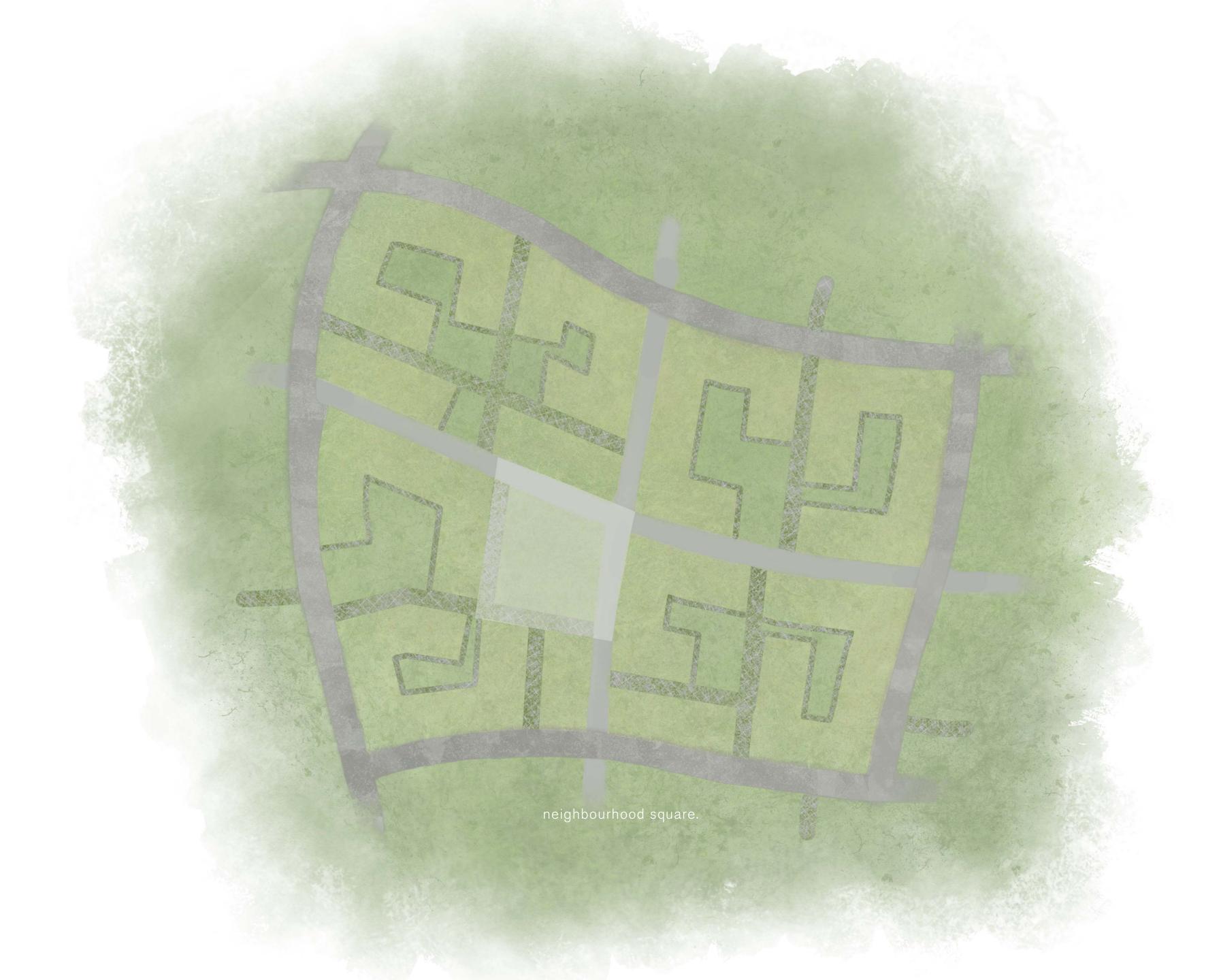
Urban framework



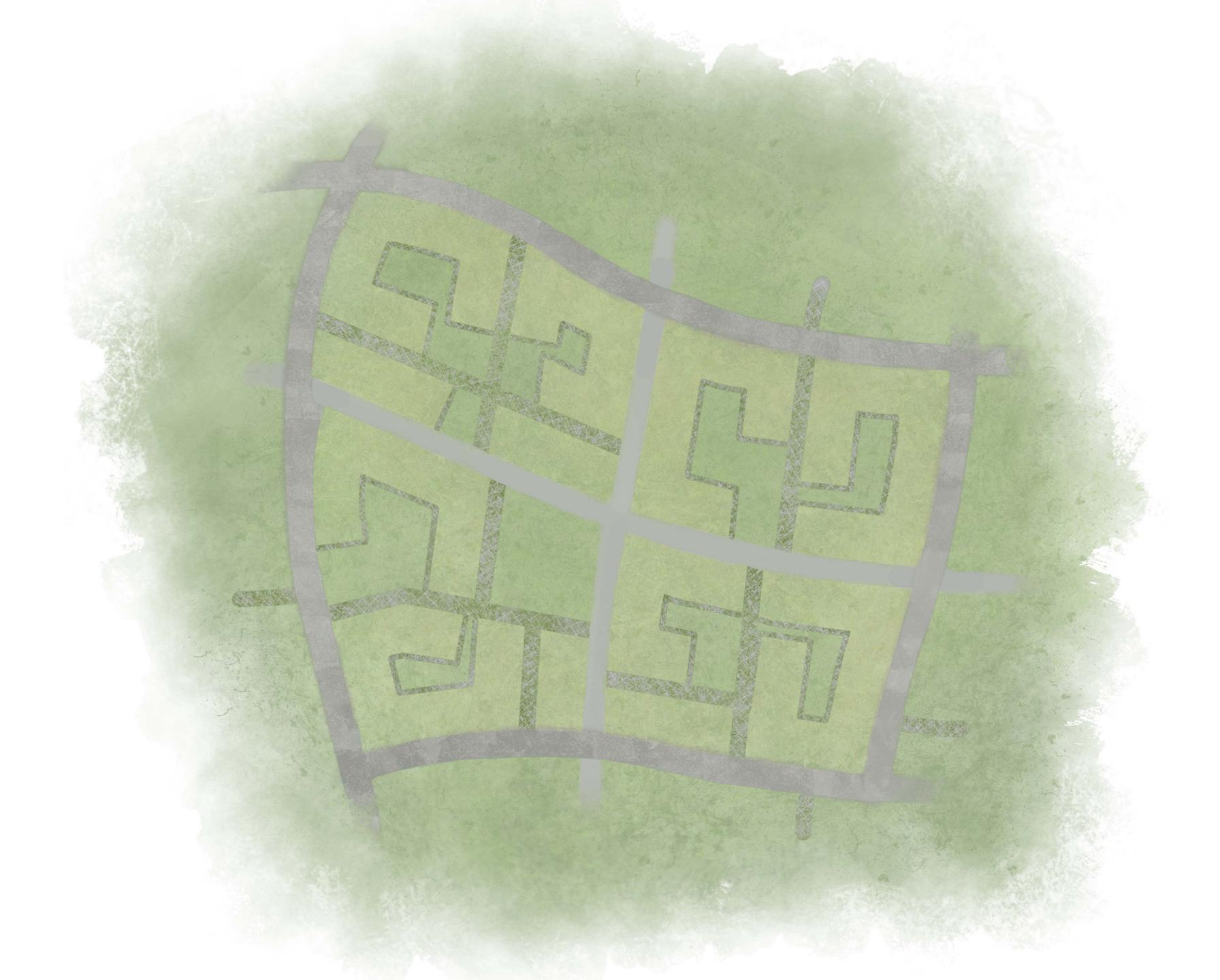
Urban framework



Urban framework



Urban framework



Urban framework



Scale 1:600

Urban framework



Scale 1:600

Design

Urban framework



Scale 1:600

Urban framework

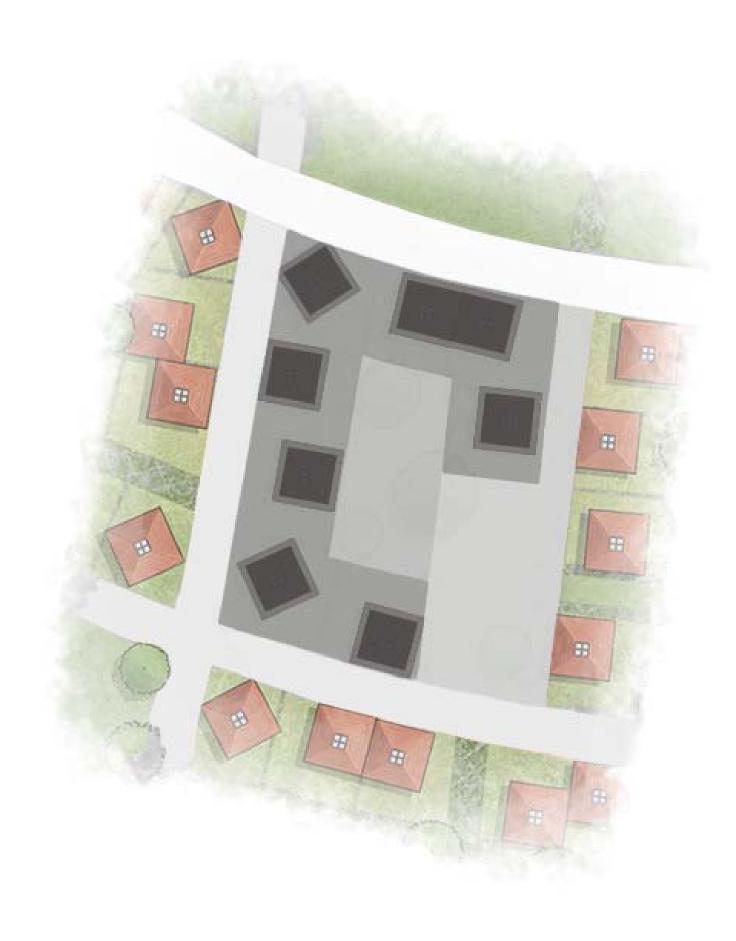
 \bigcirc



Urban framework



Urban framework







public to private scheme.

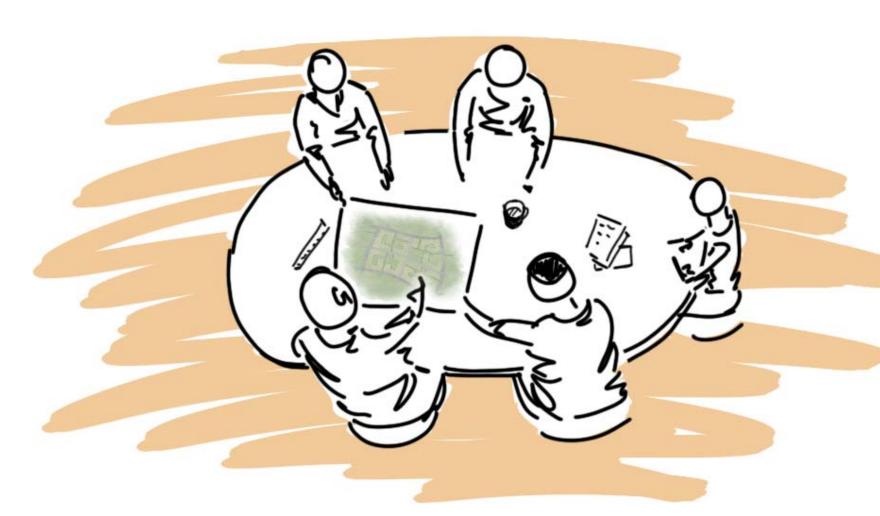
Urban framework



Urban framework

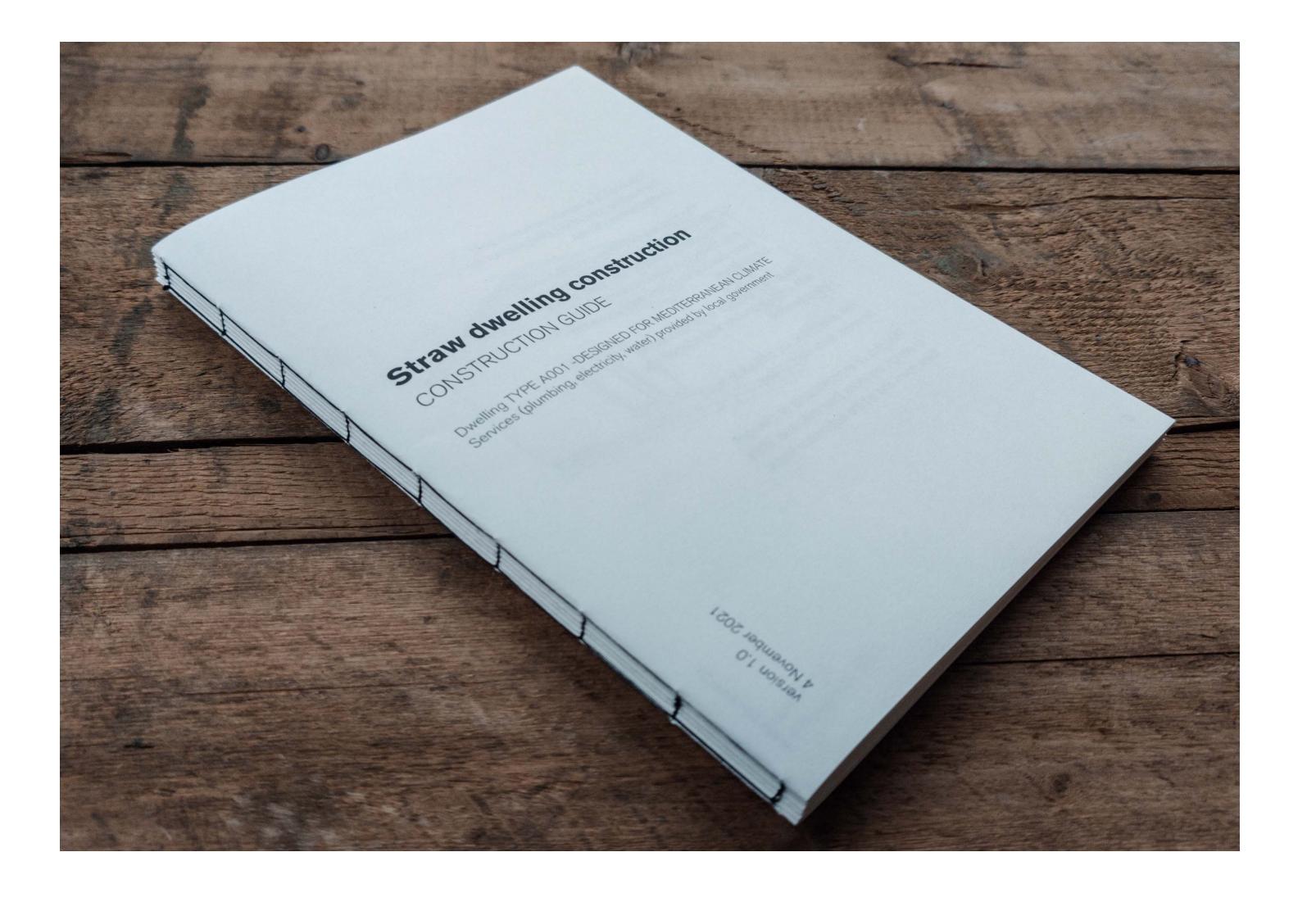
DESIGN

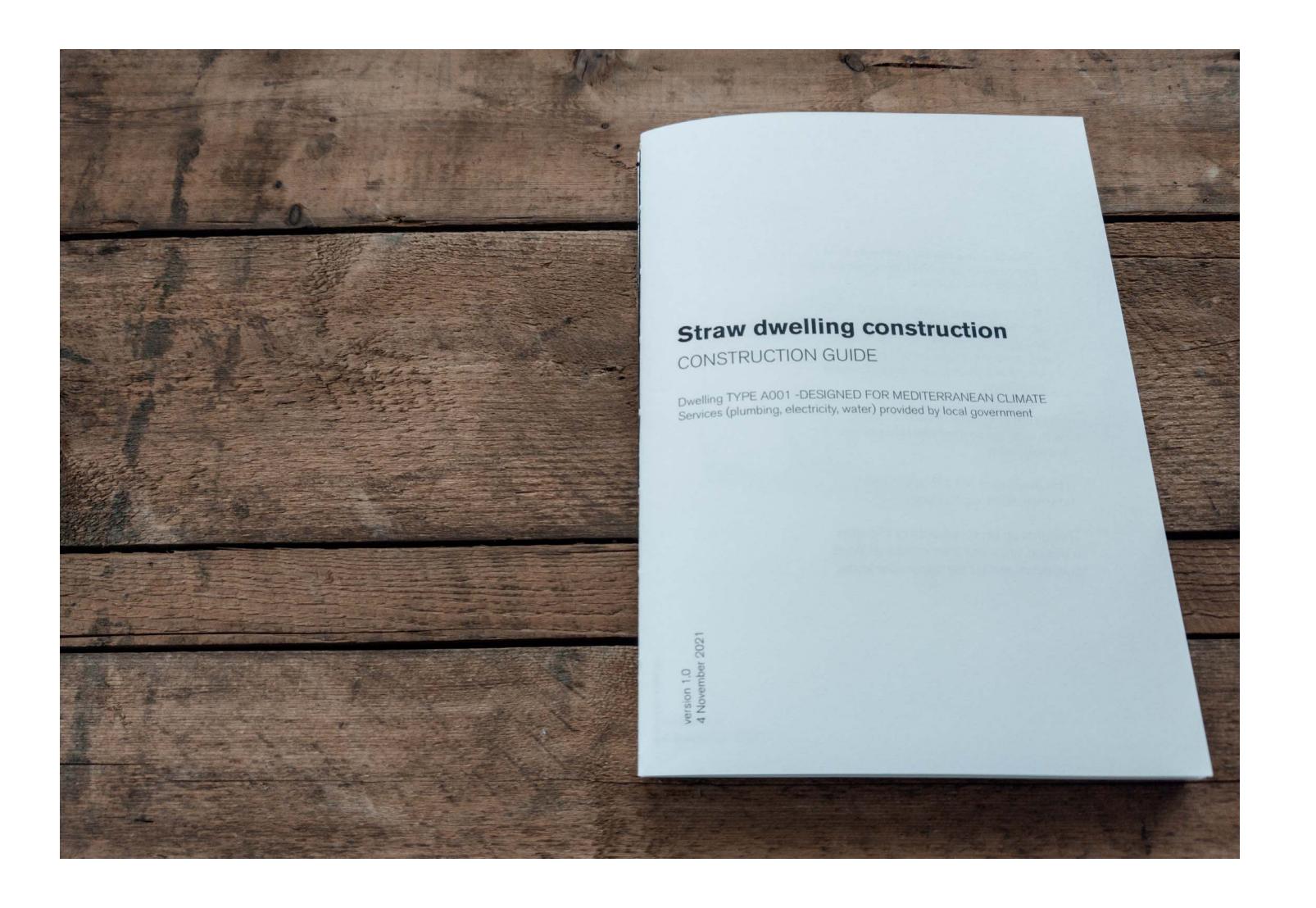
Construction process



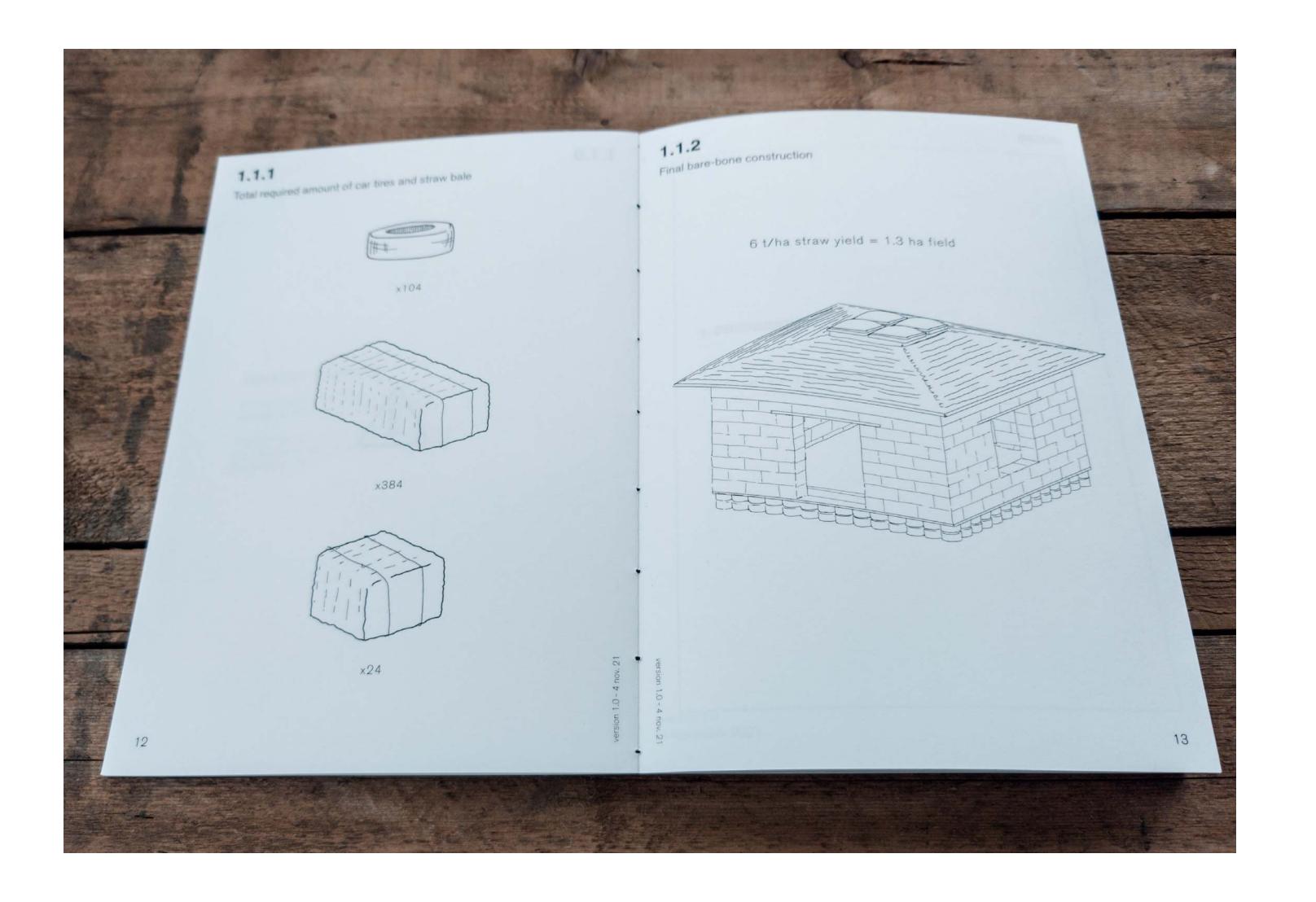
construction process.

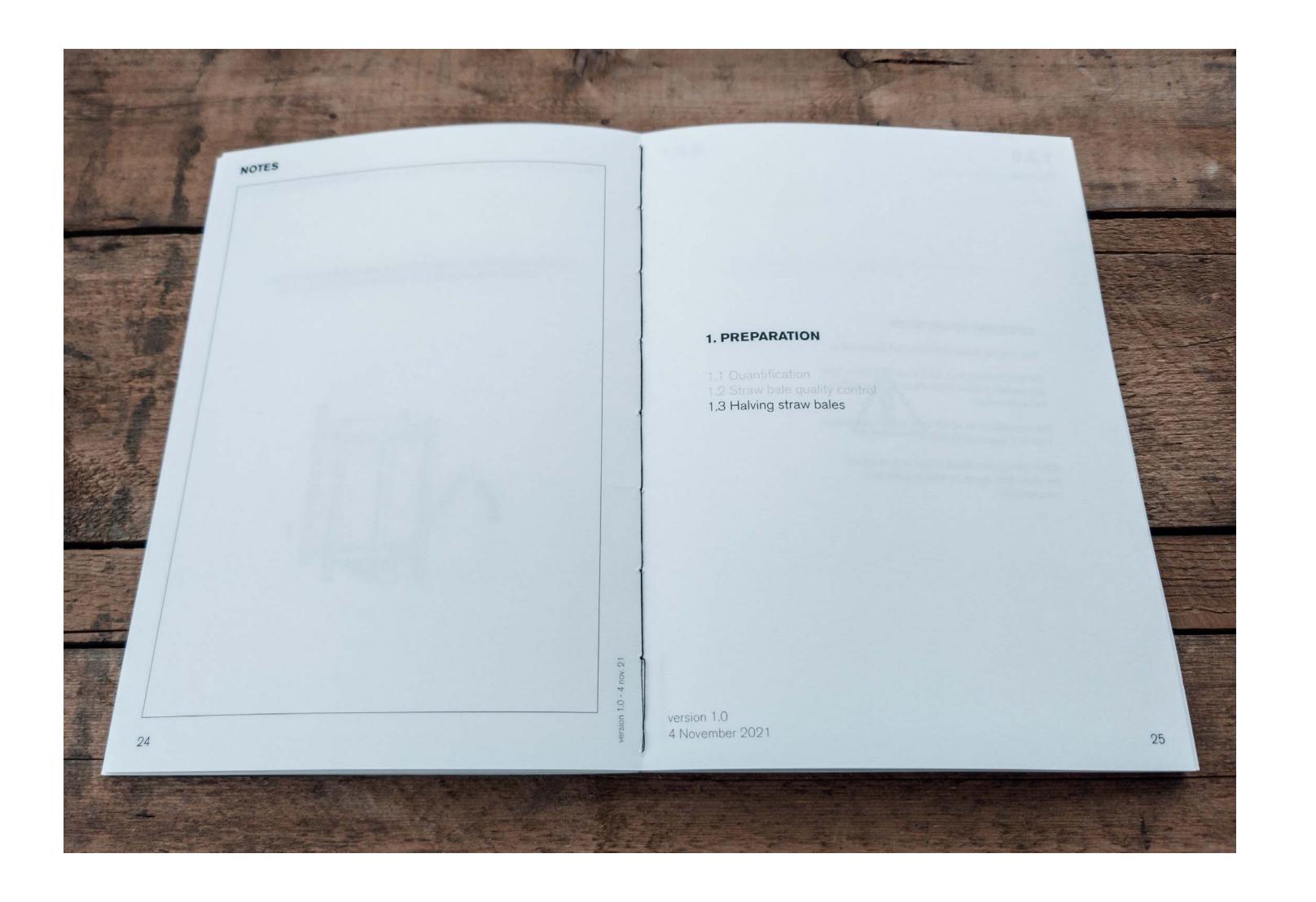
Construction and design

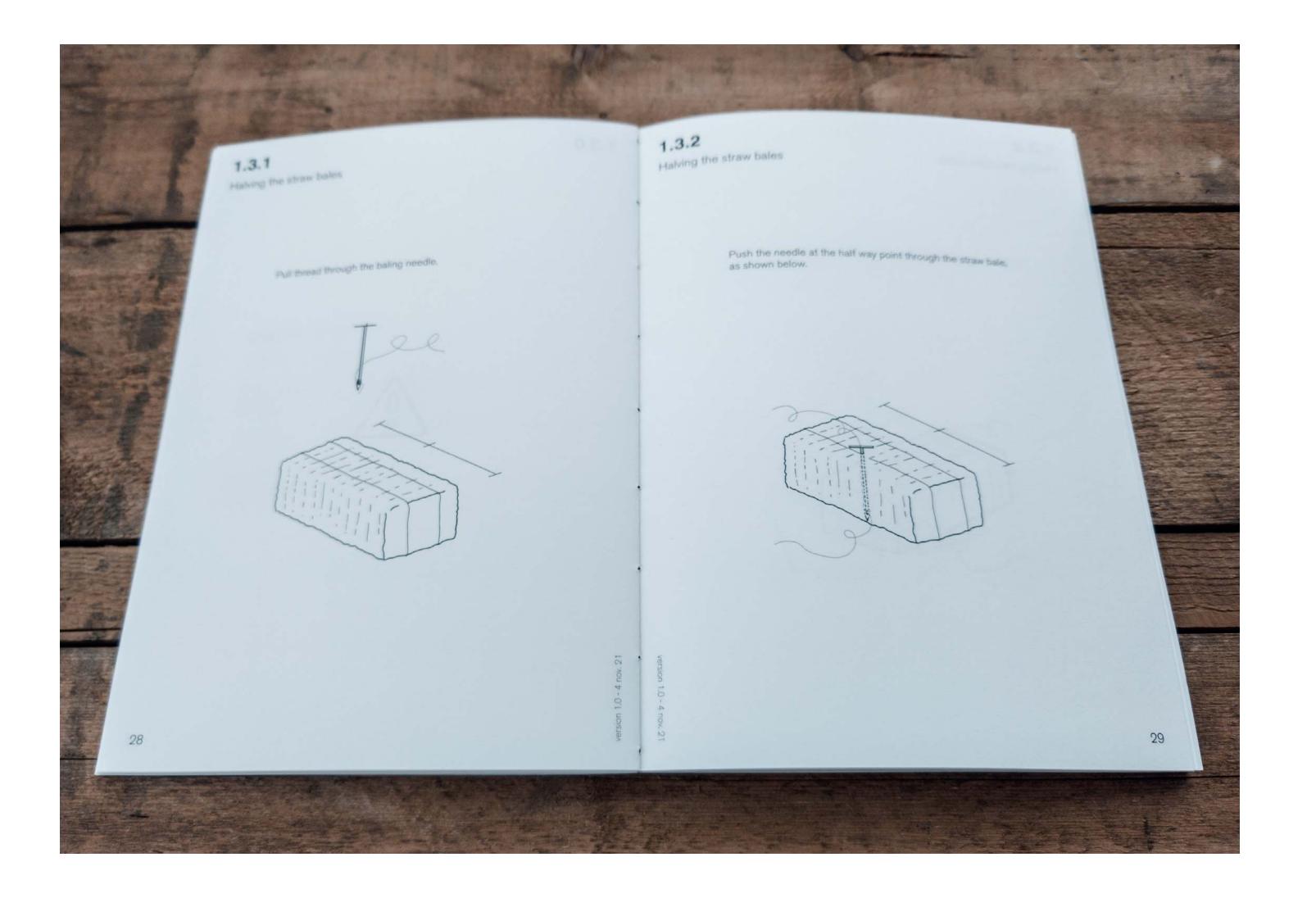


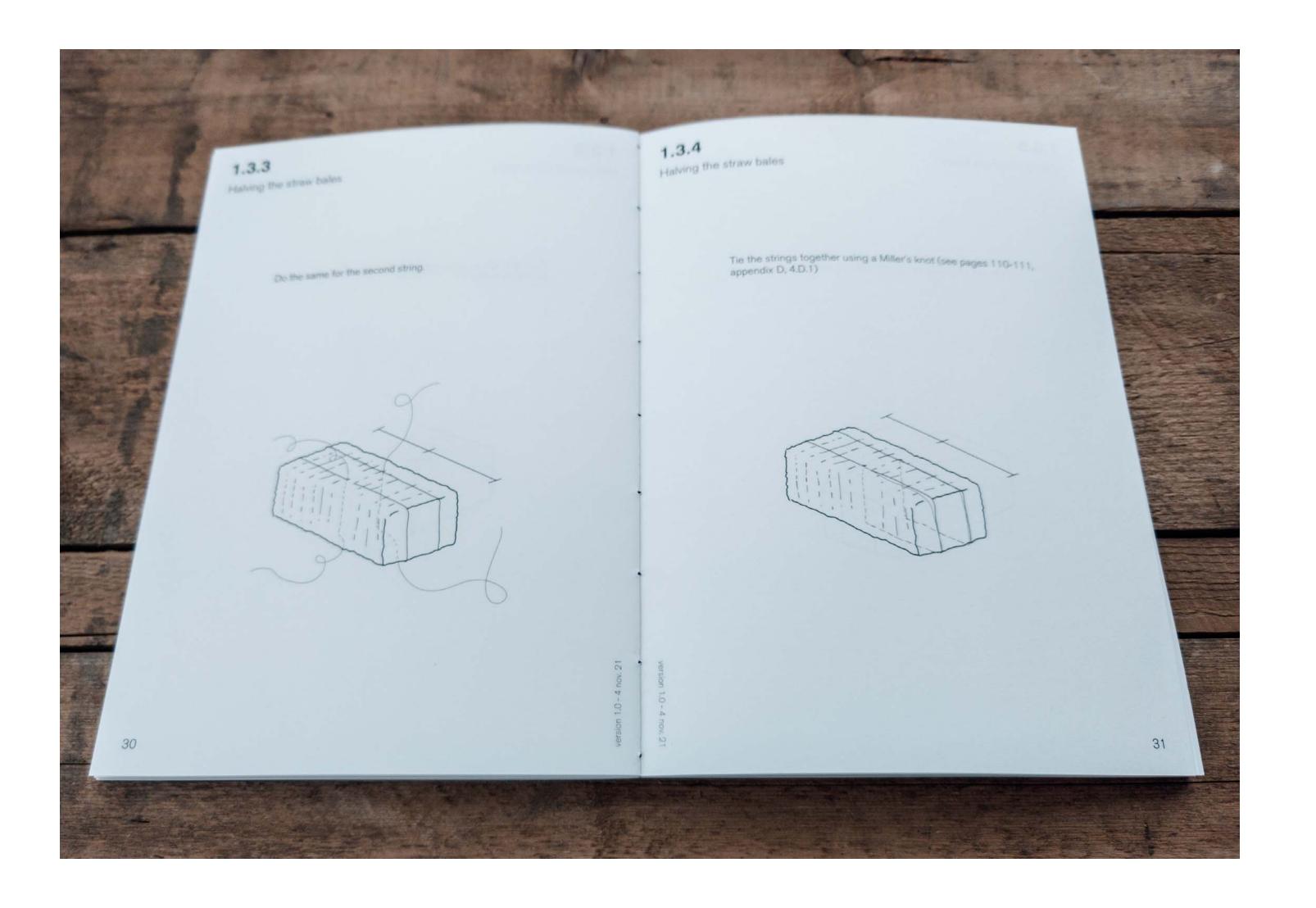


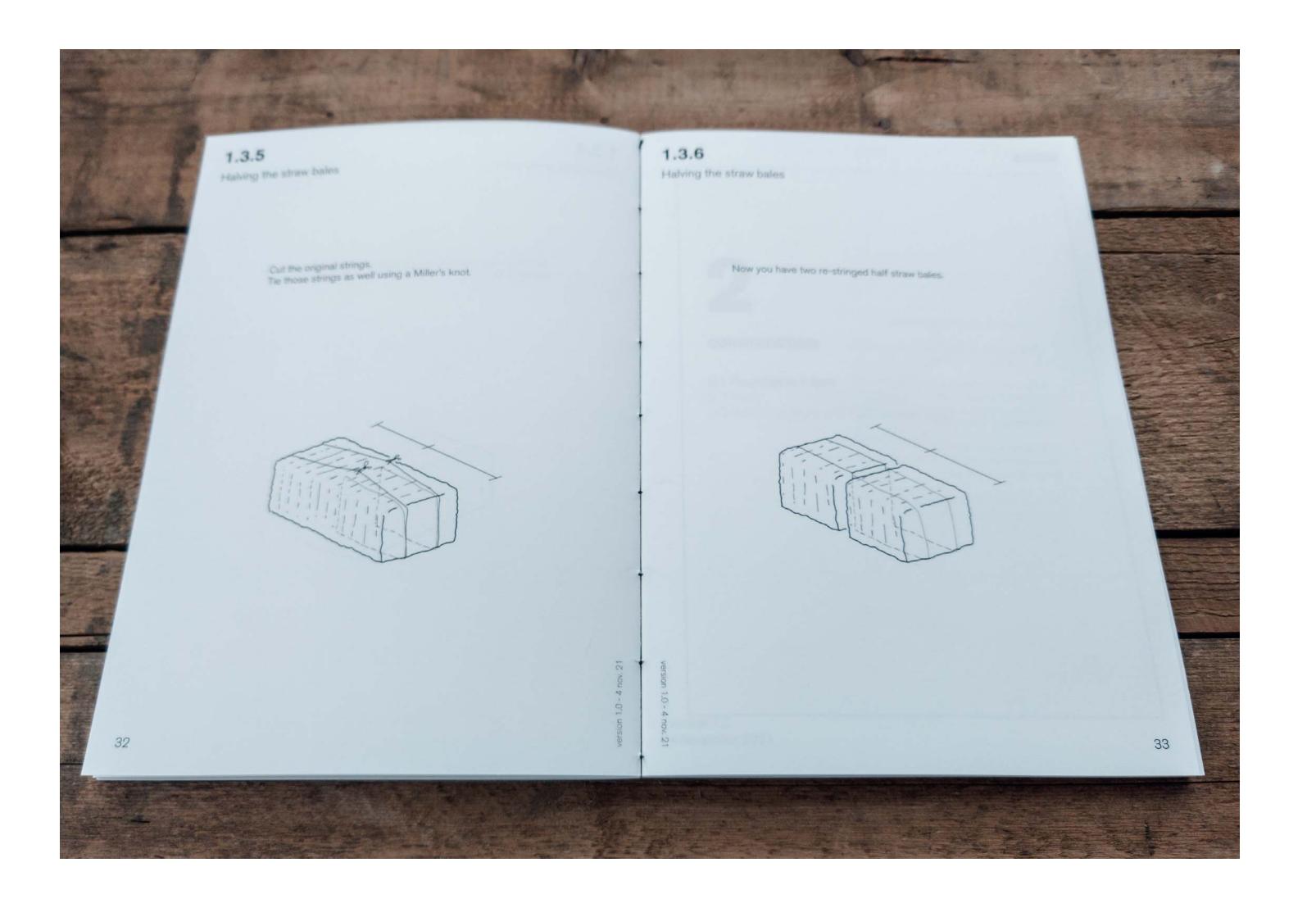


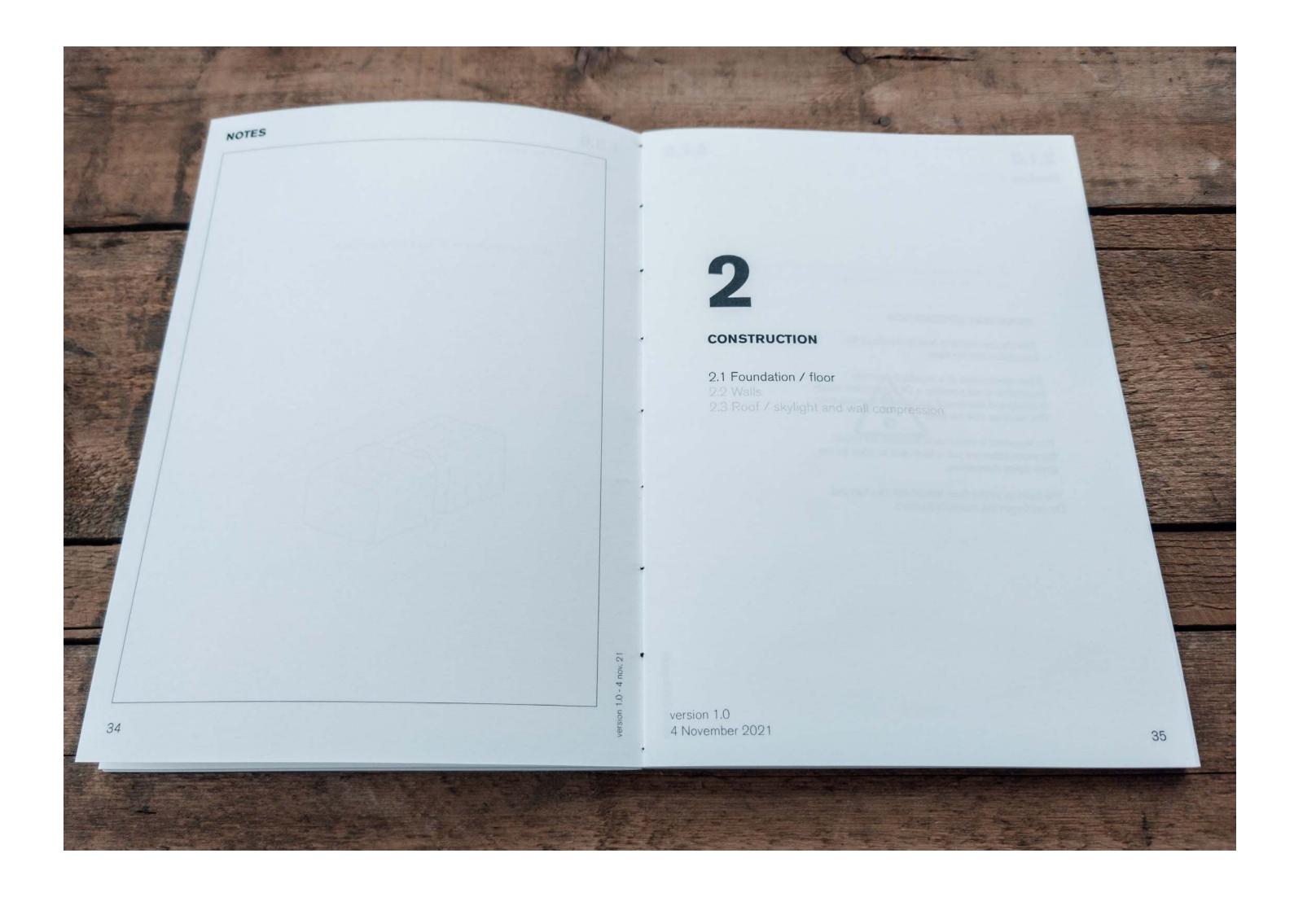


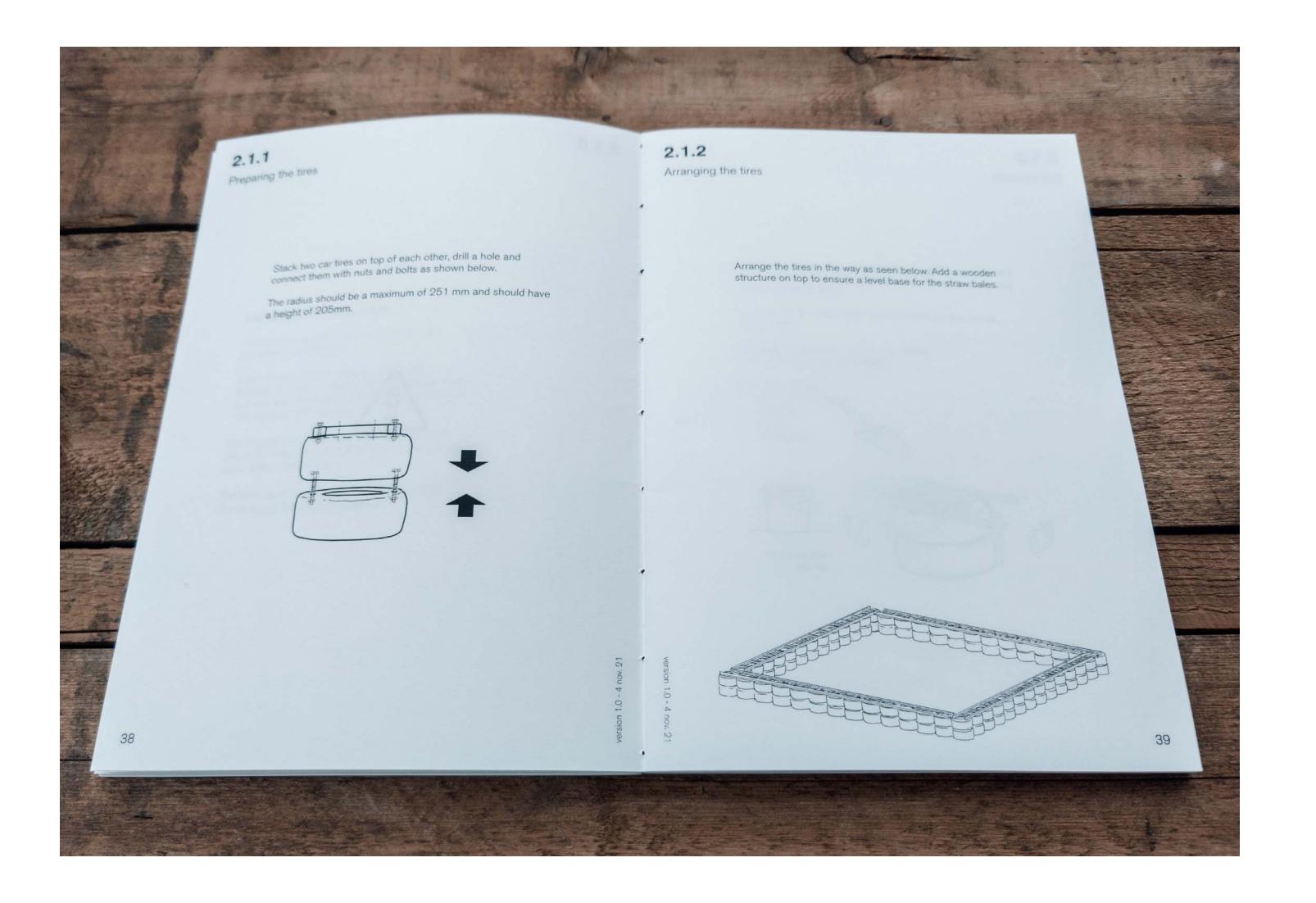


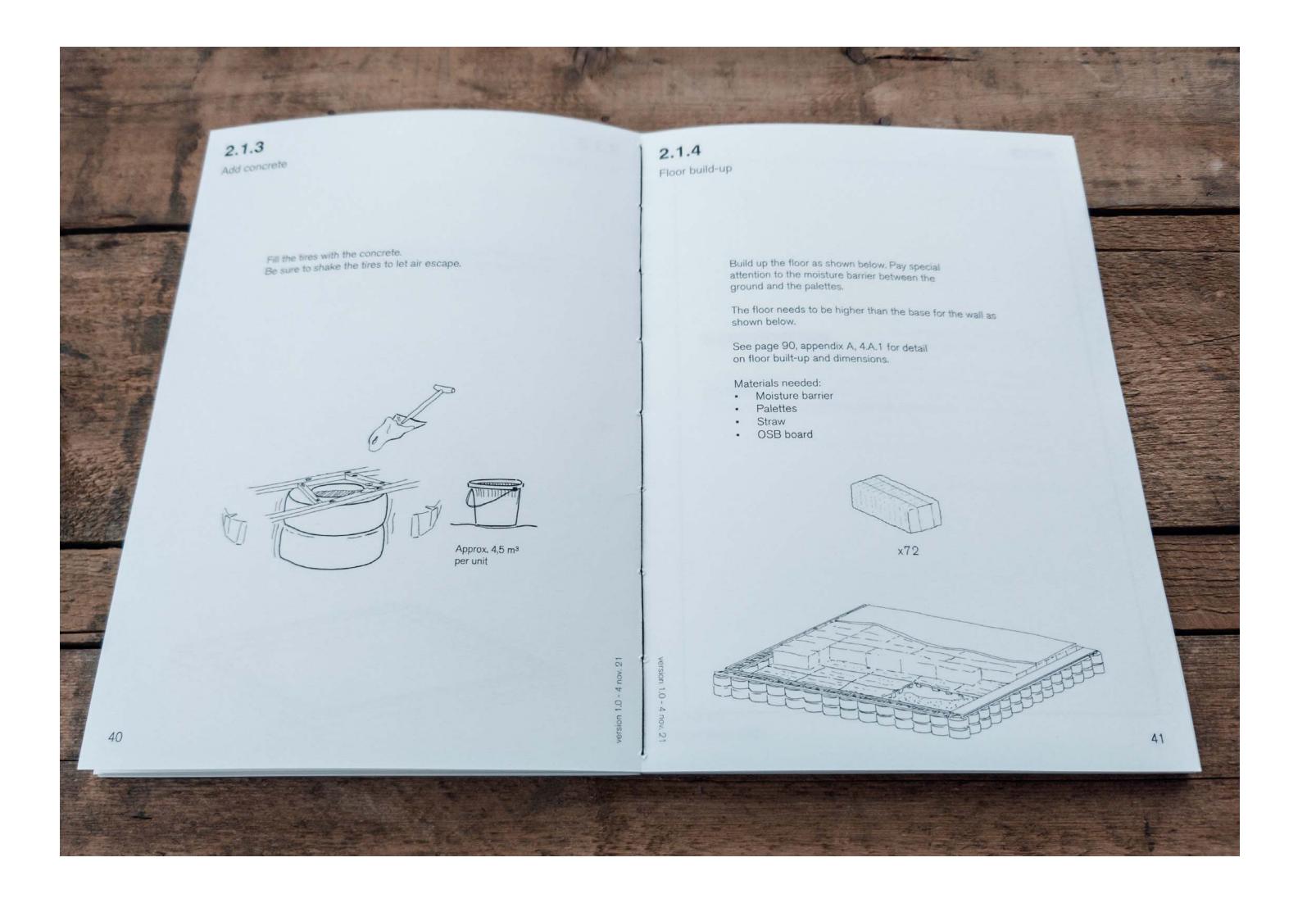


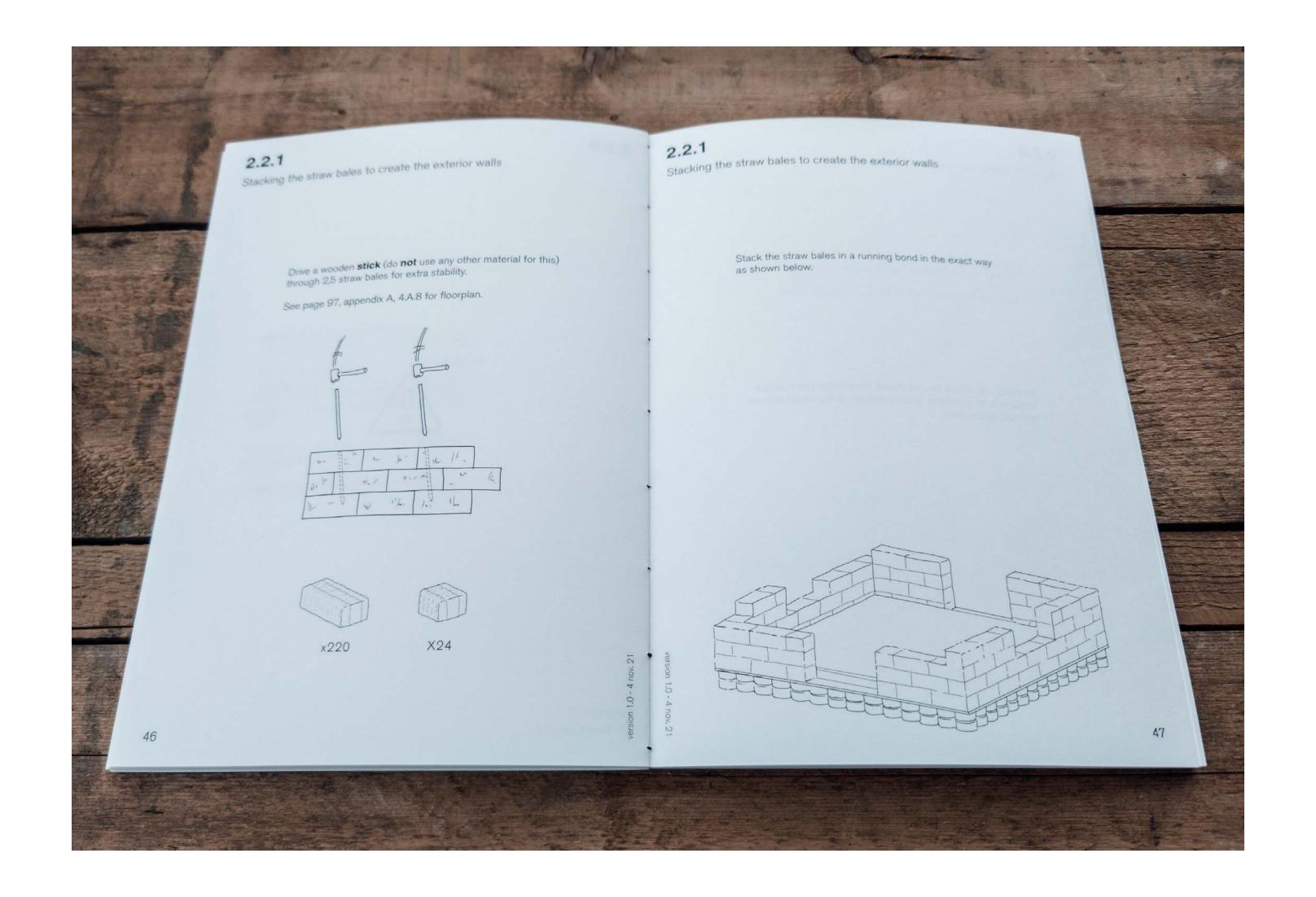


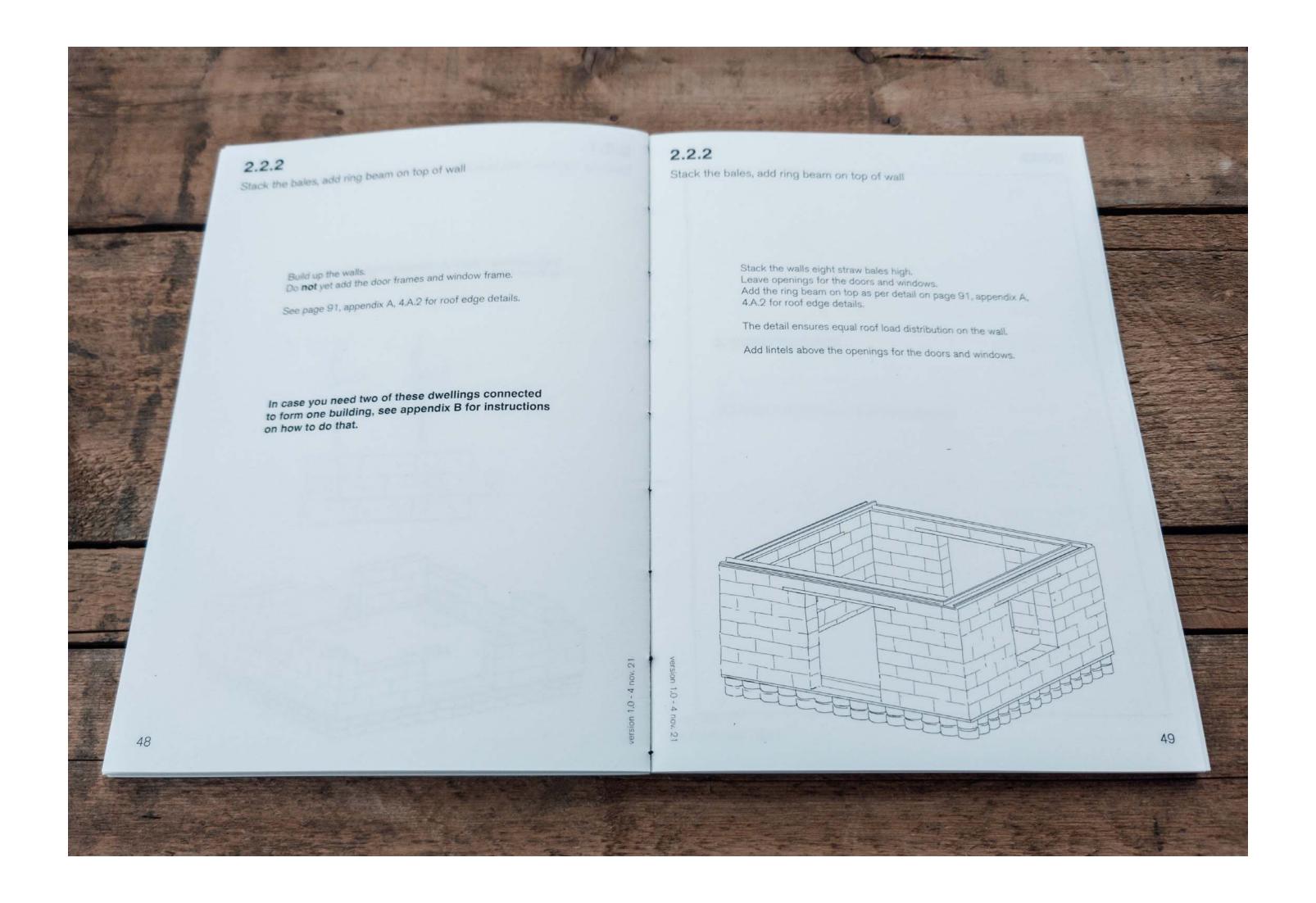


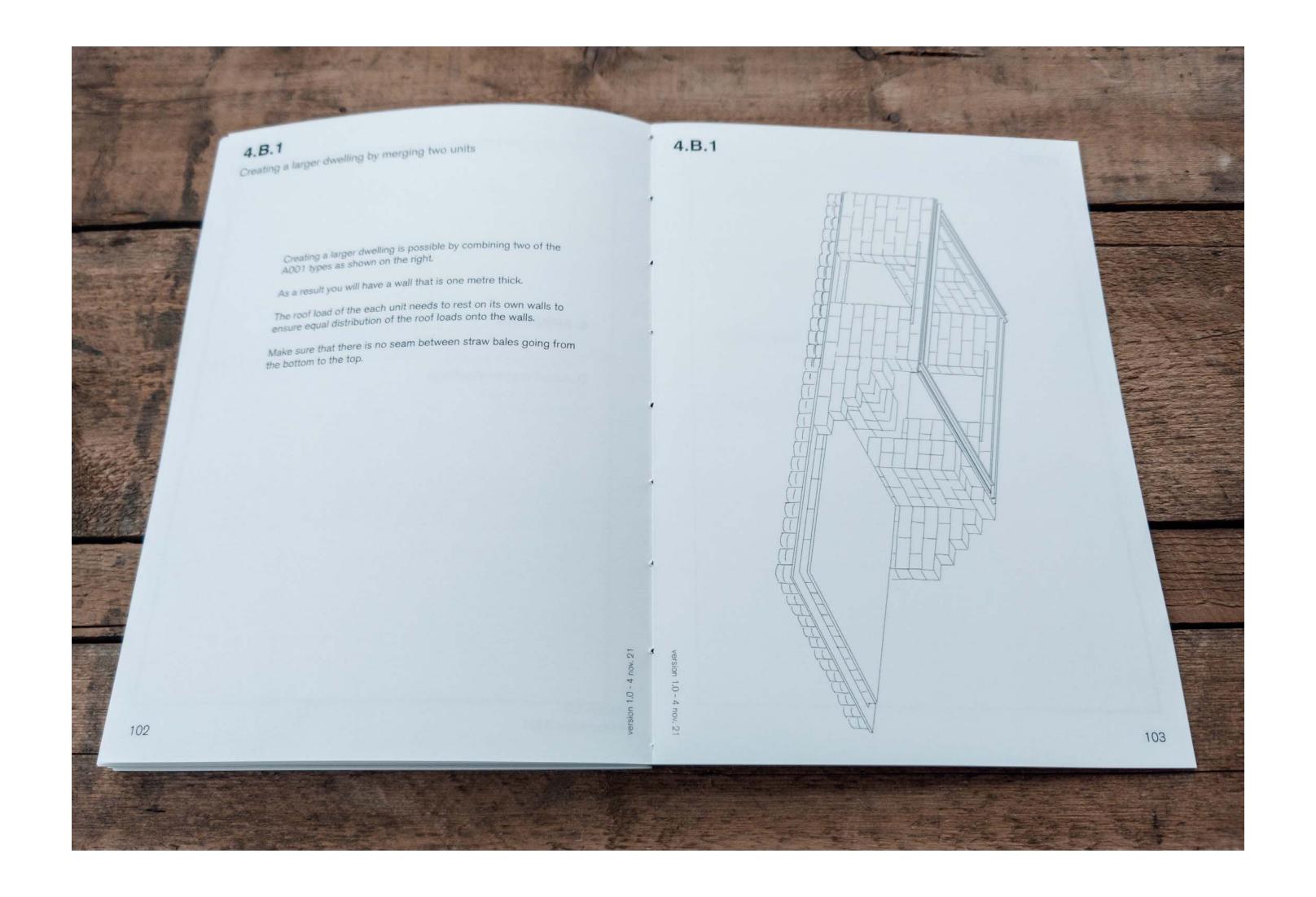


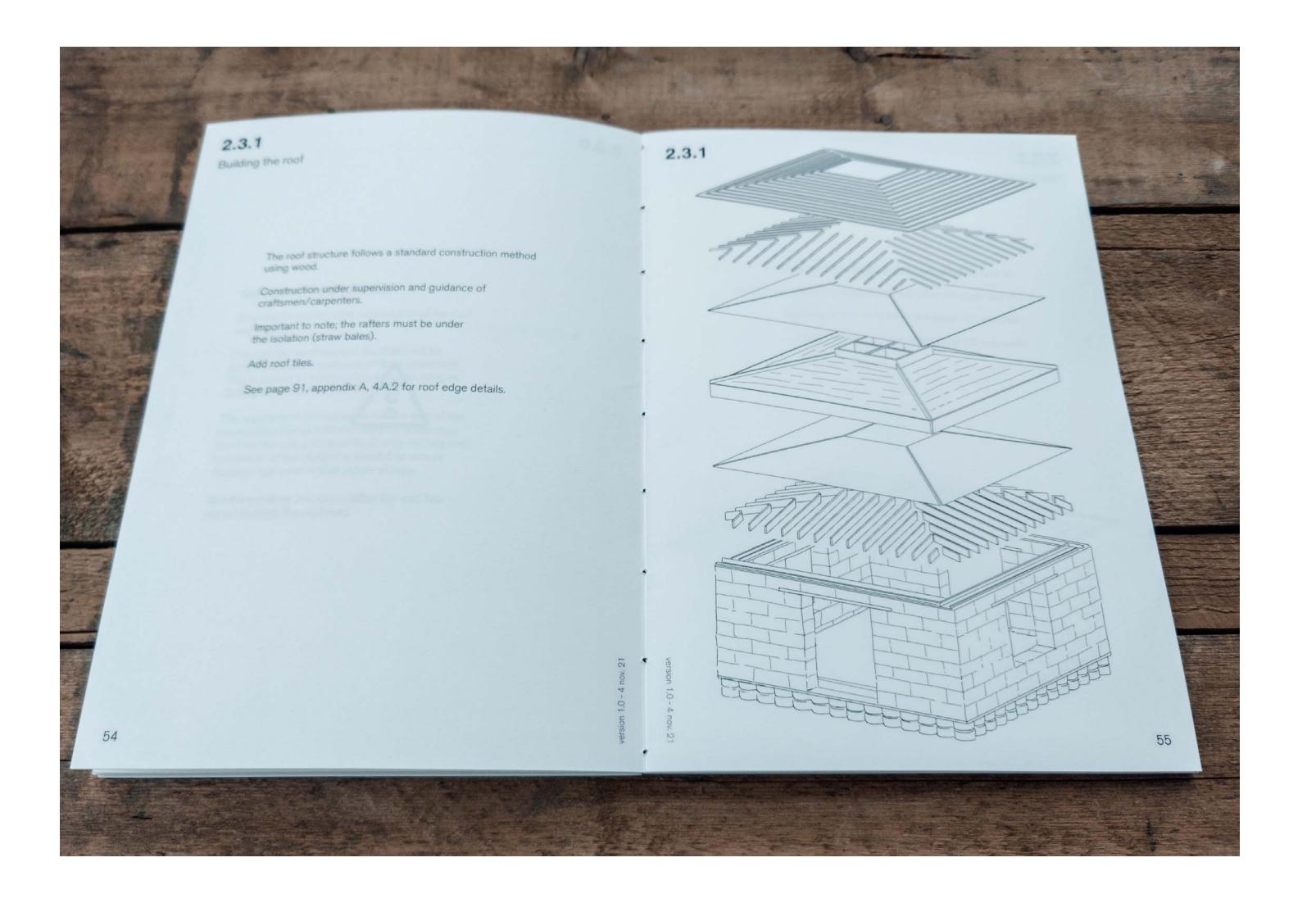


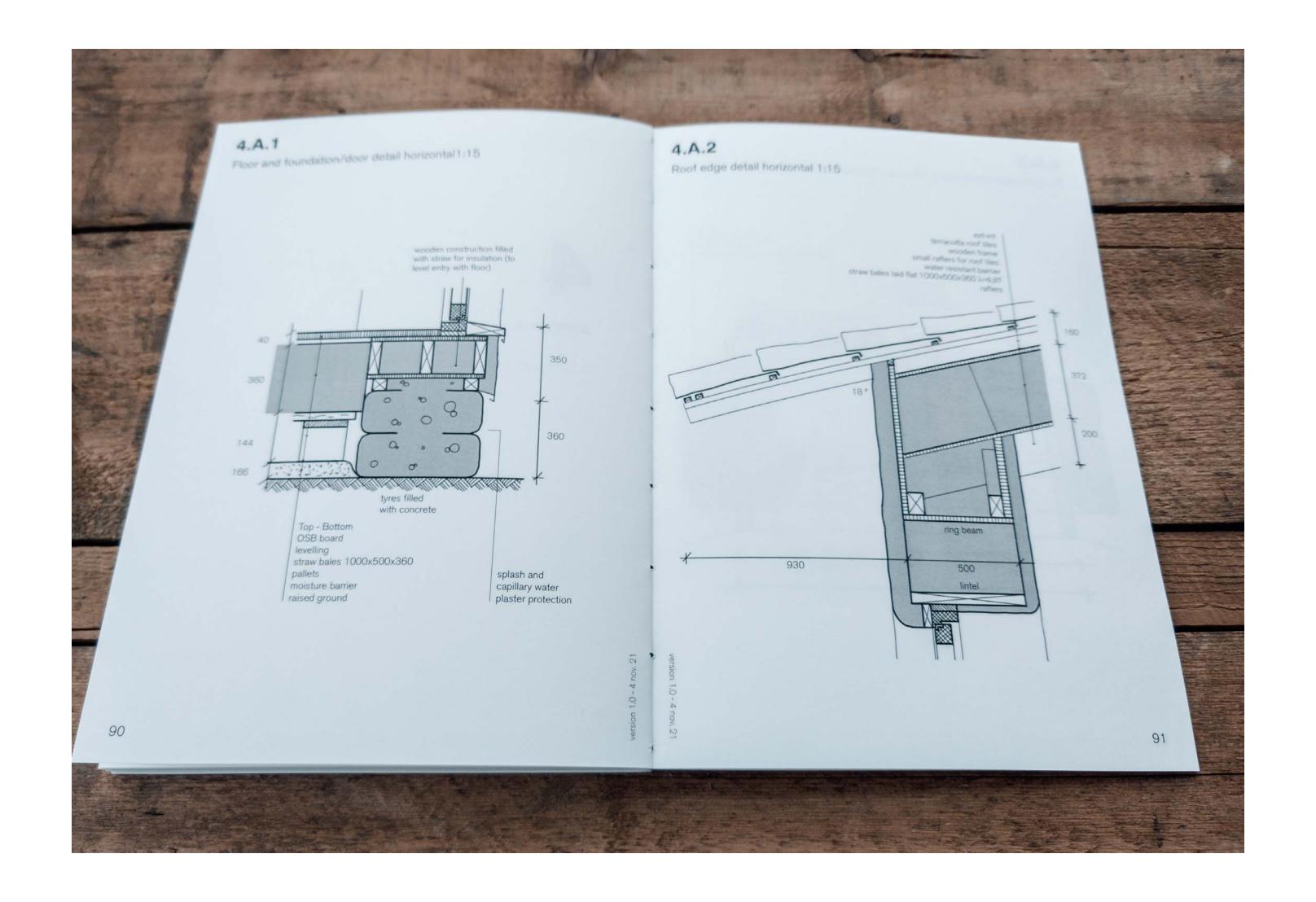


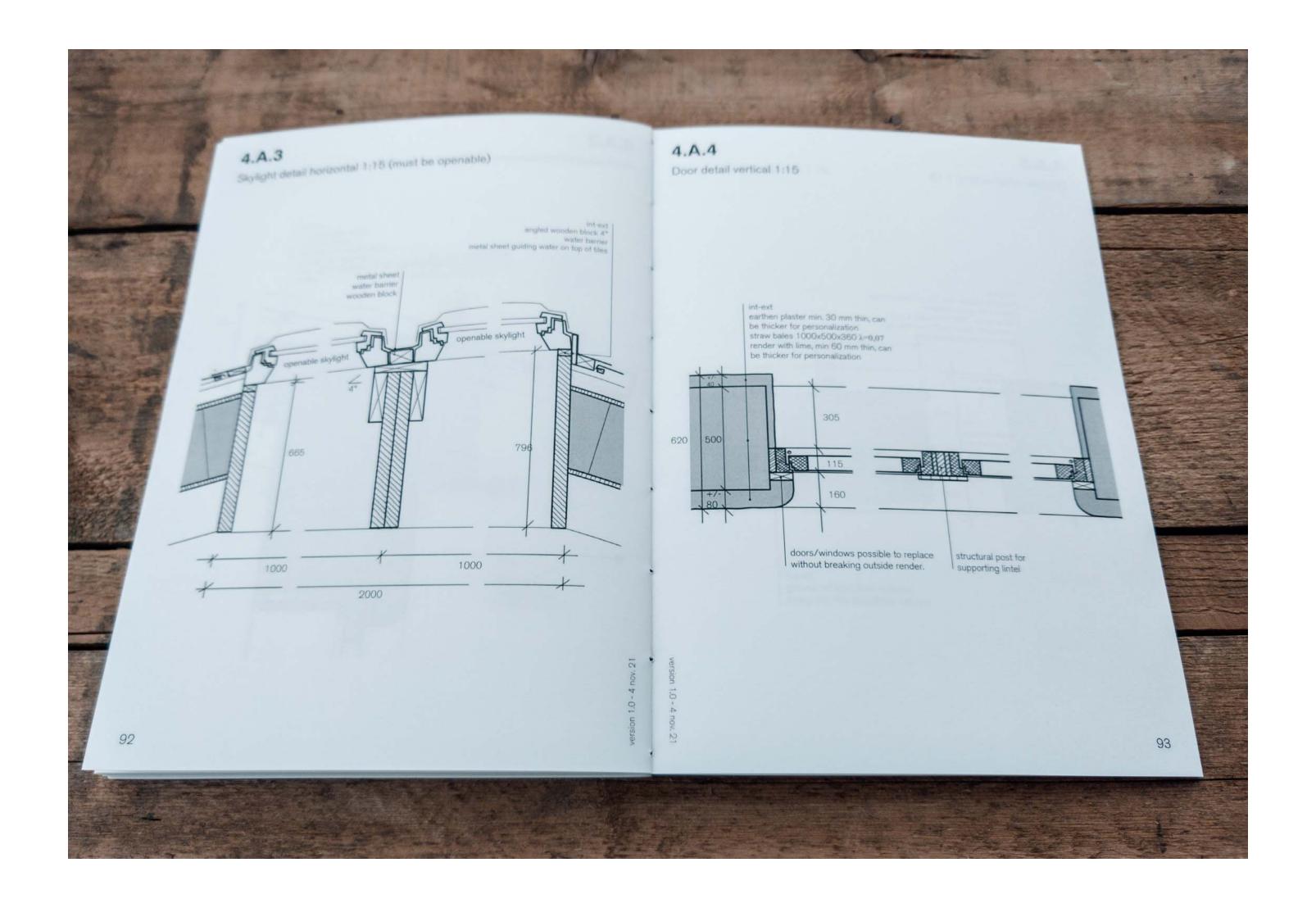




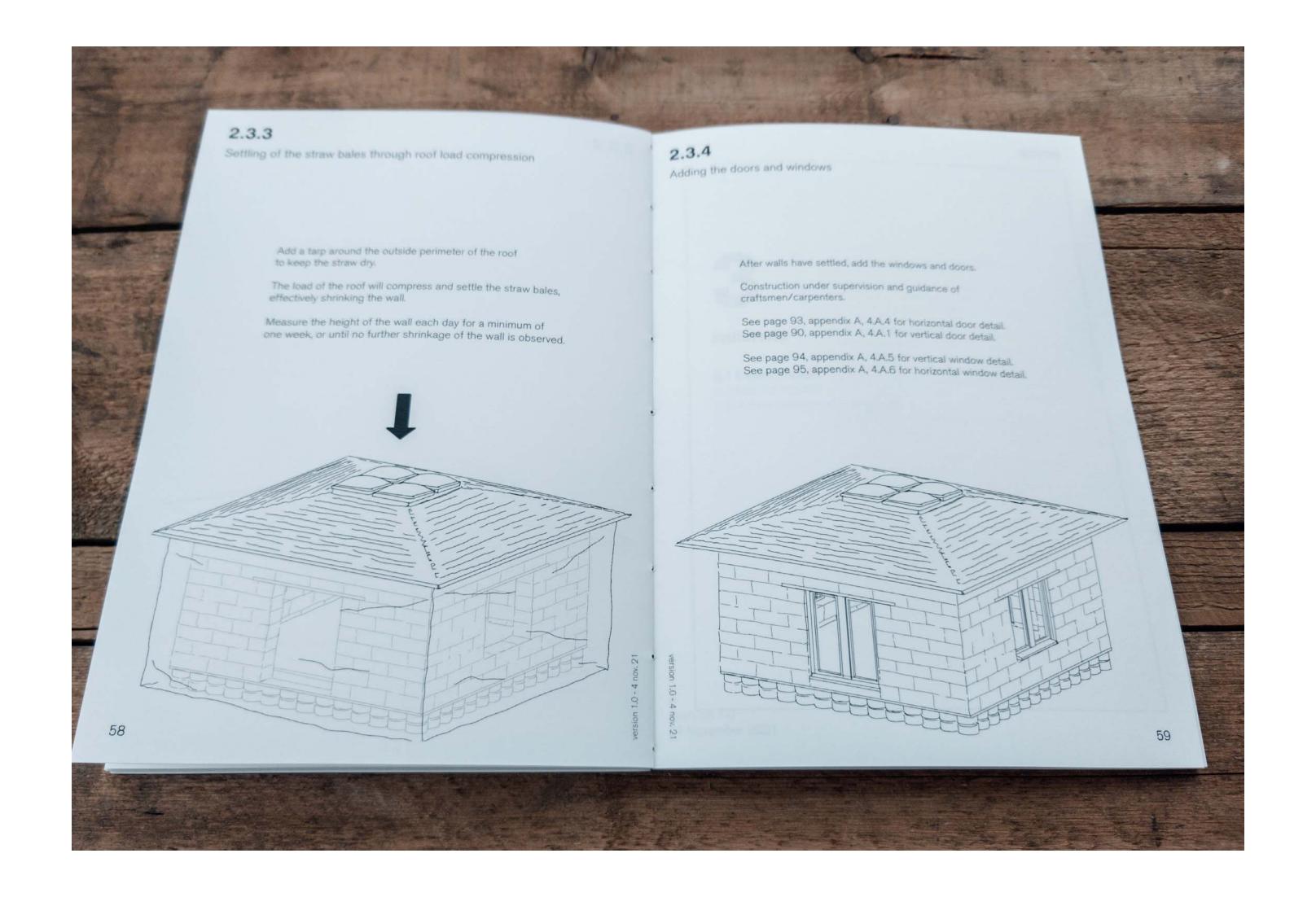


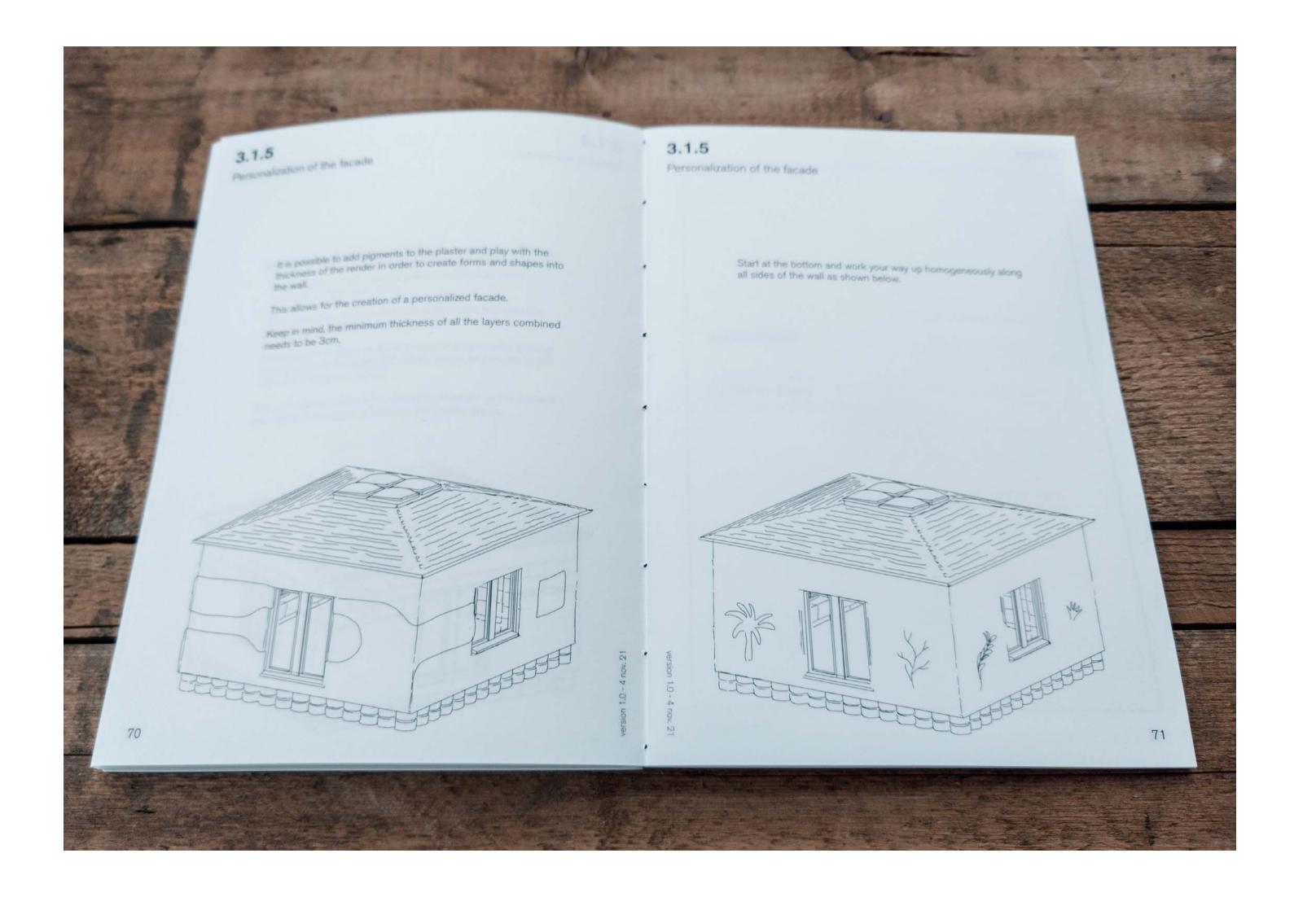




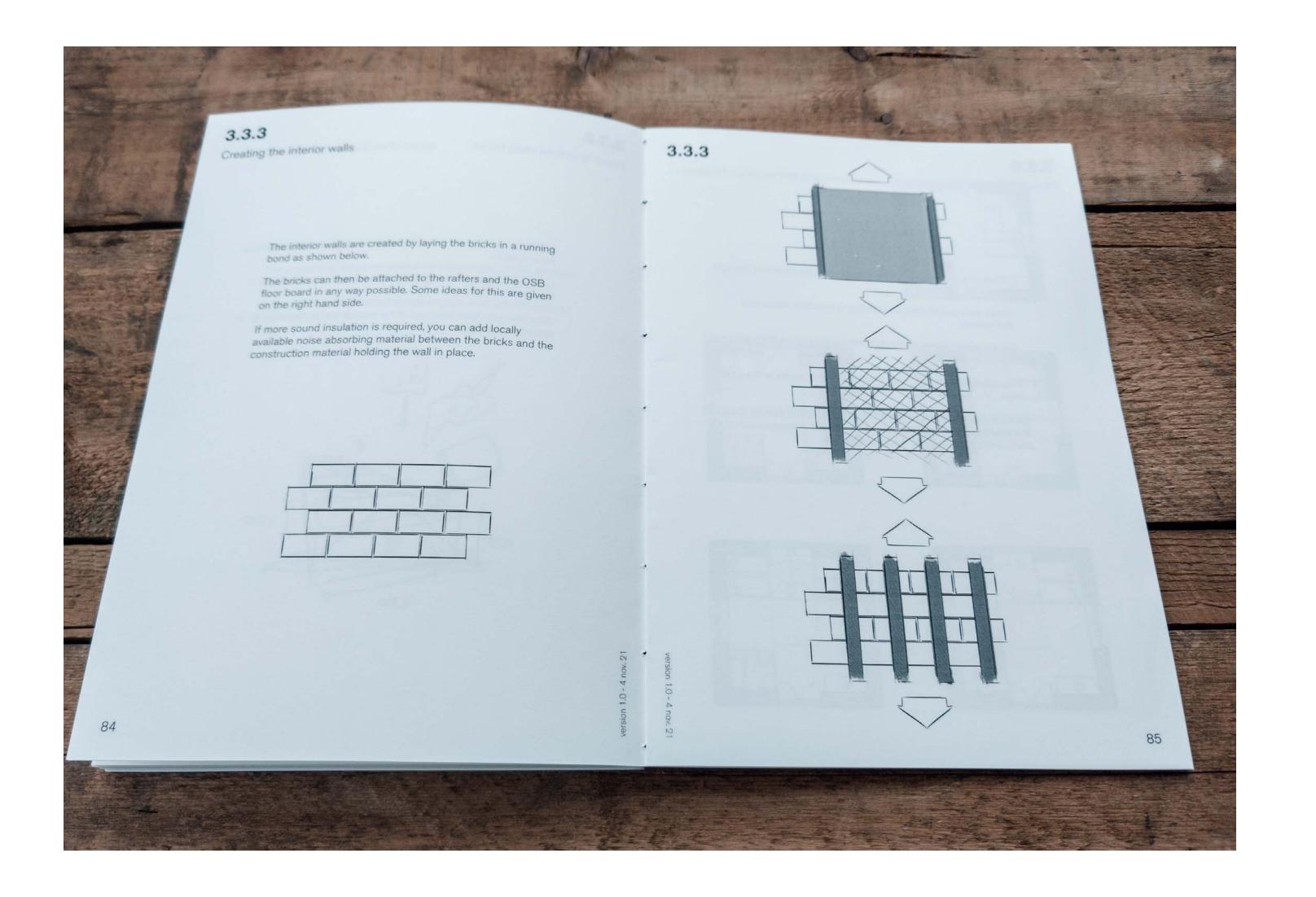








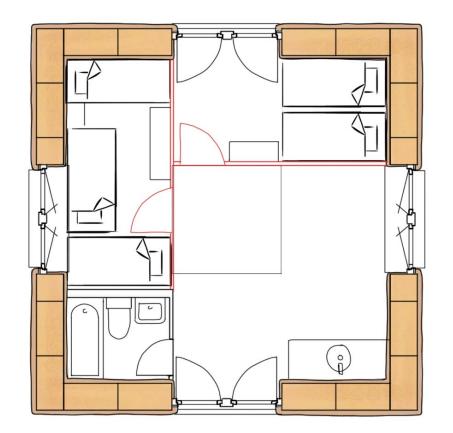


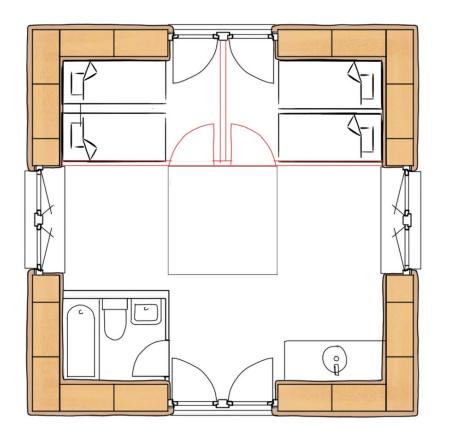


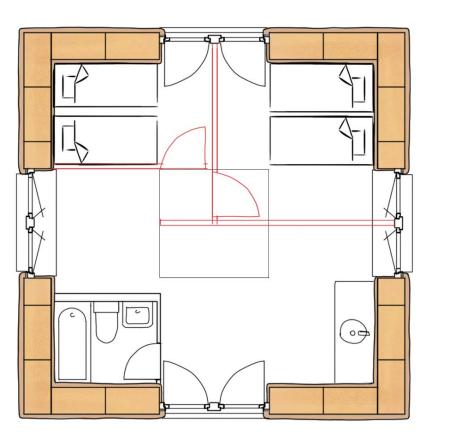


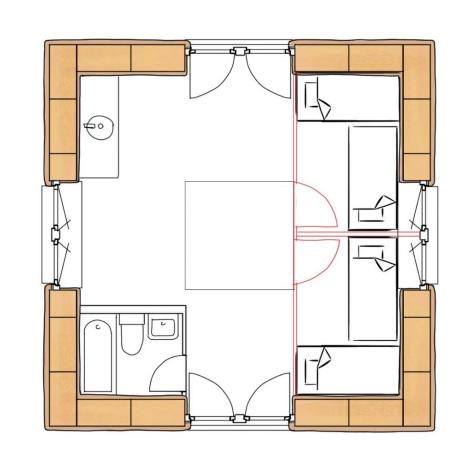
Construction and design

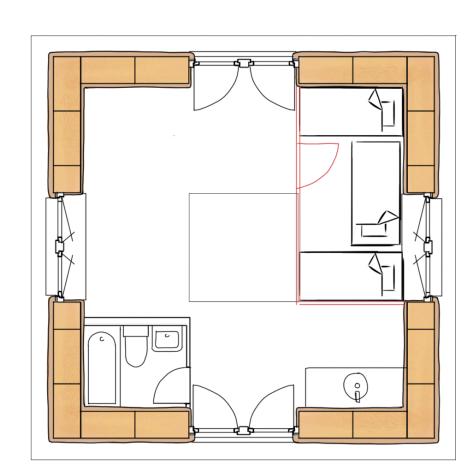
Instructions and construction of the dwelling





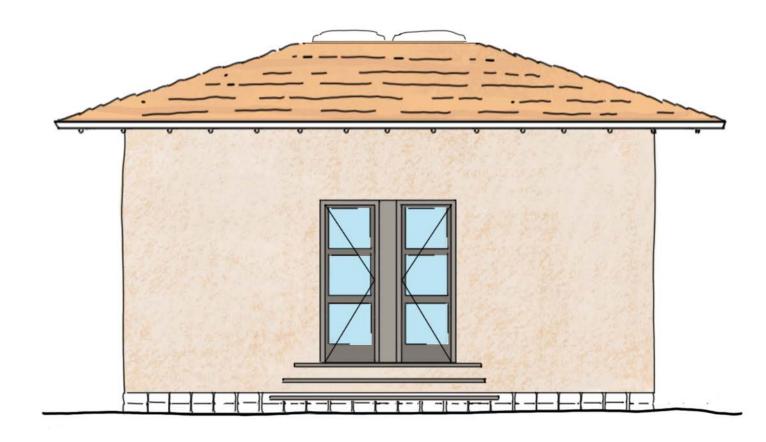




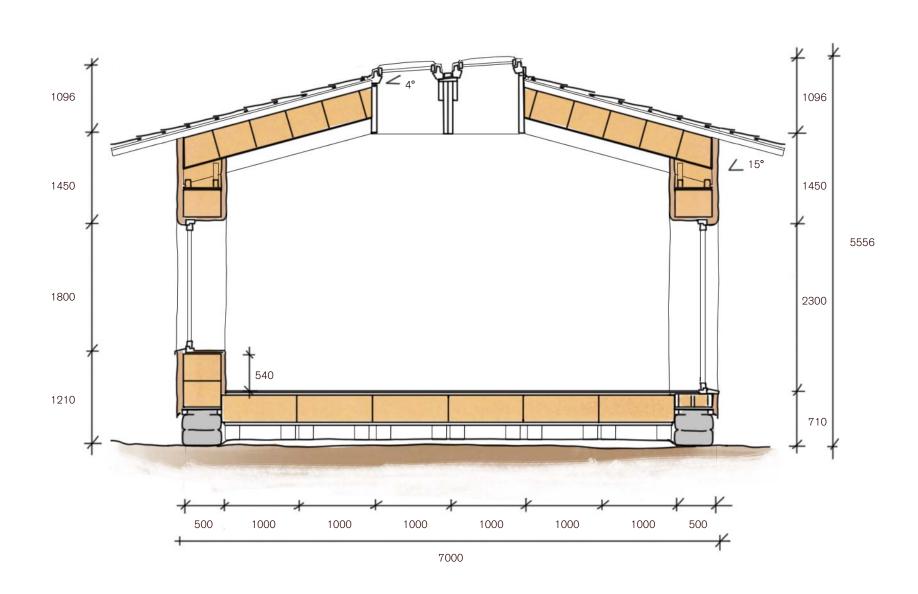


Construction and design

Instructions and construction of the dwelling

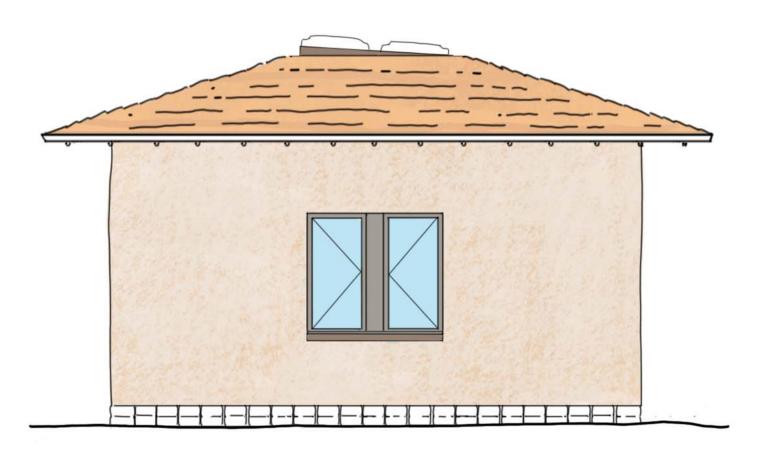


facade with door (front/back) 1:50

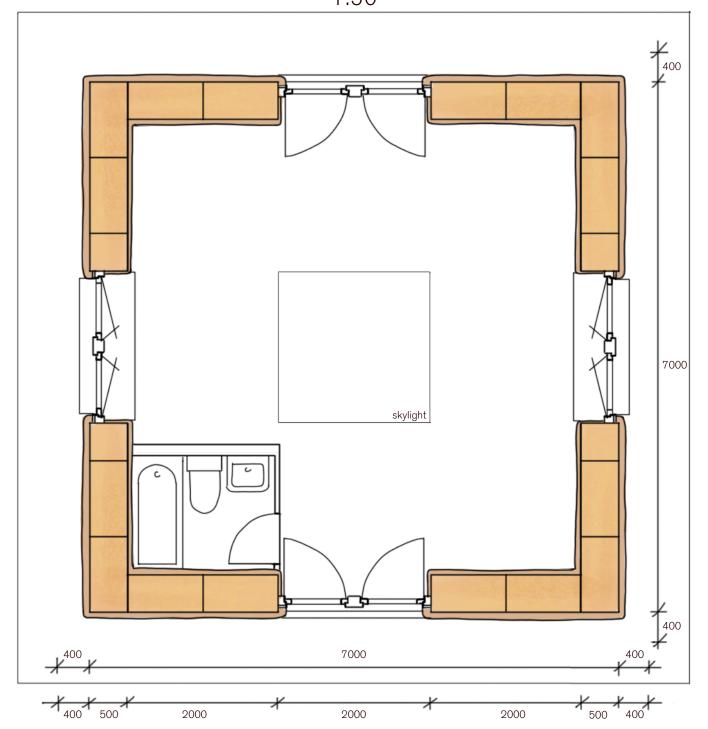


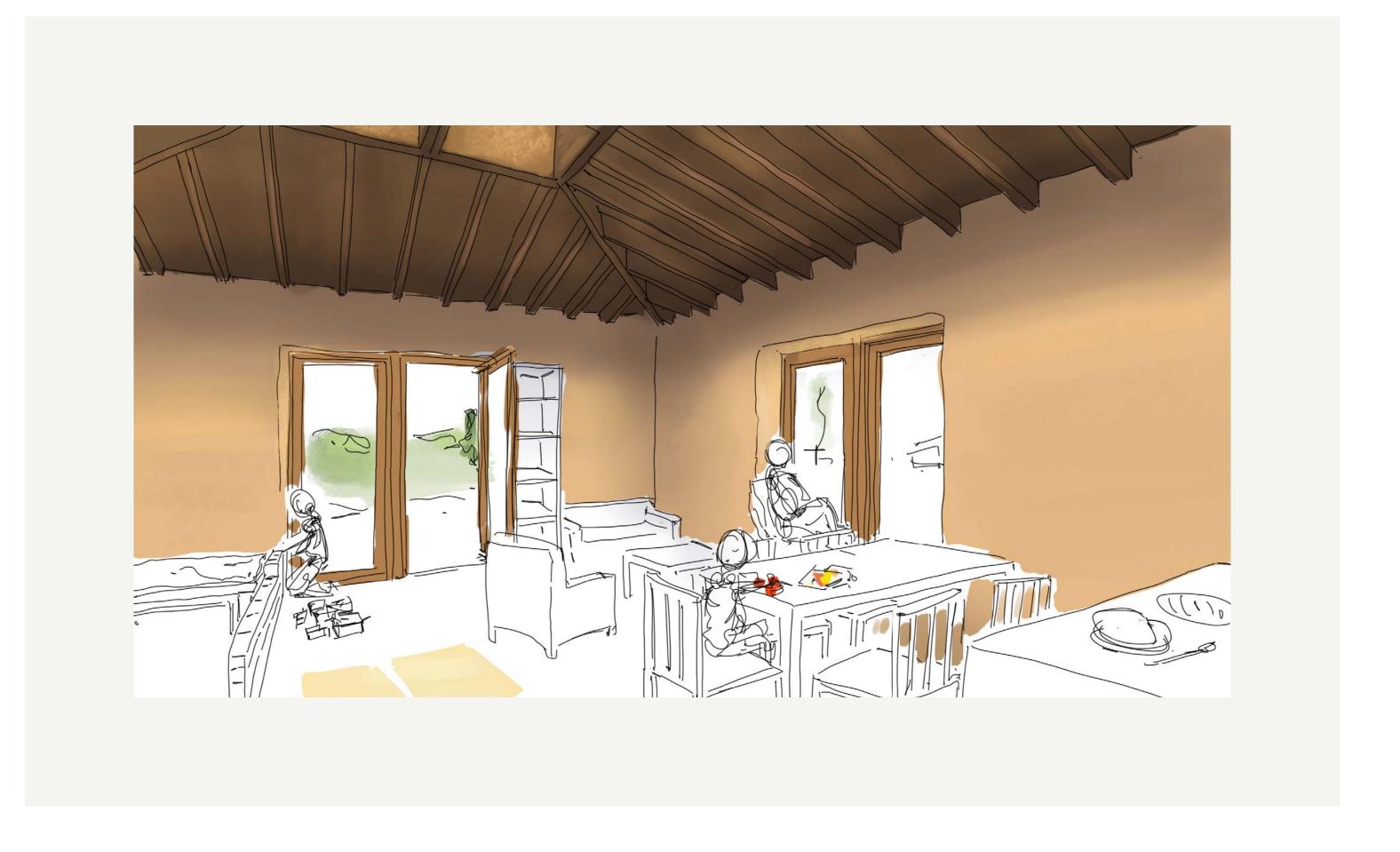
Construction and design

Instructions and construction of the dwelling



facade with window (sides) 1:50





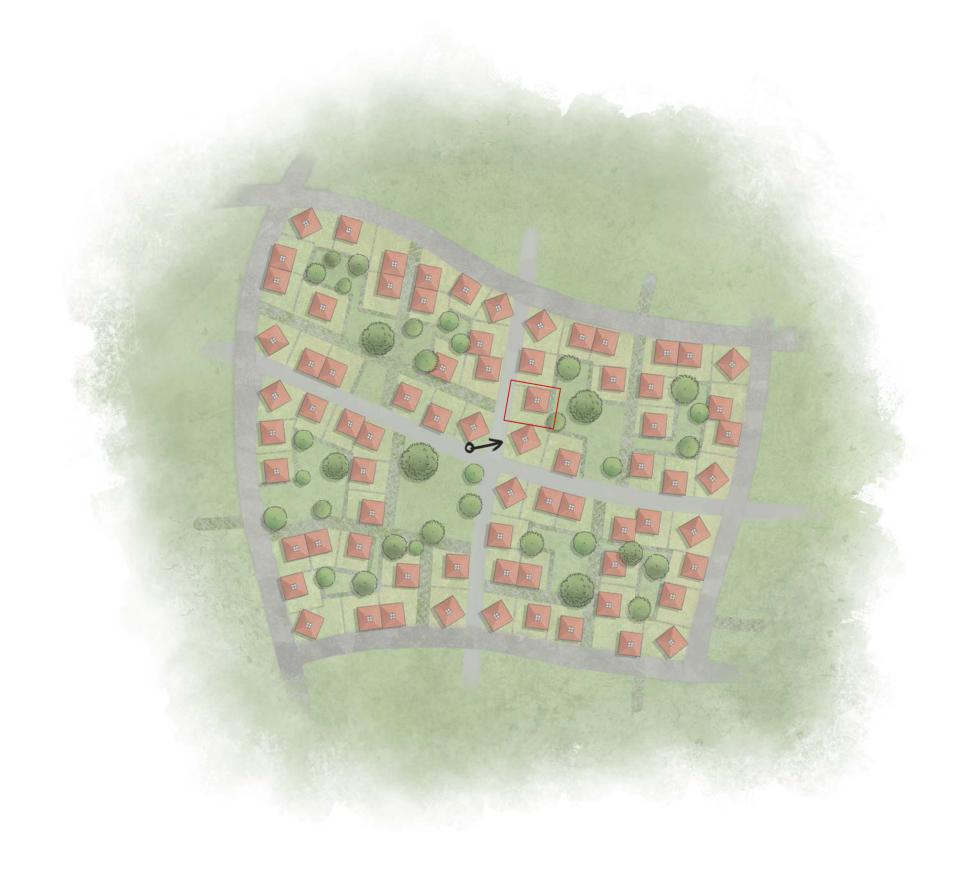
Jobfair - refugee city centre



Jobfair - refugee city centre



Supermarket - a place of interaction





Building new homes





Playing safely in the courtyards





Neighbourhood square - activities





Baker on the corner





Cluster dinner





Expanding on the restaurant



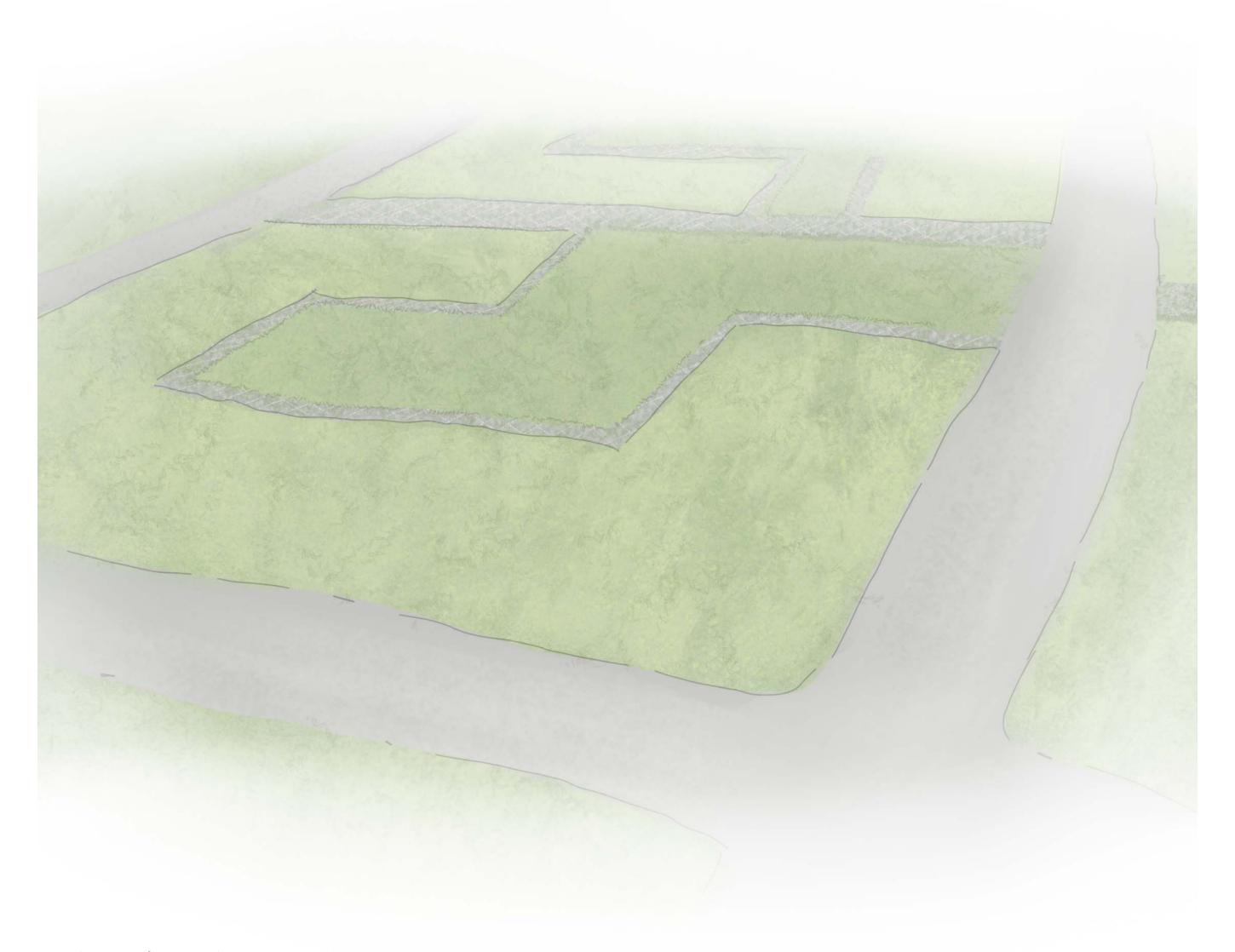


Shopping in other areas of the refugee city





Social cohesion



step 1: empty framework



step 2: early development



step 3: provided space for (economic) activity is used



step 4: slow but steady development into a city, provided through its original urban framework.



Rethinking Migration

Redesign of refugee camp Moria, Greece

THANK YOU