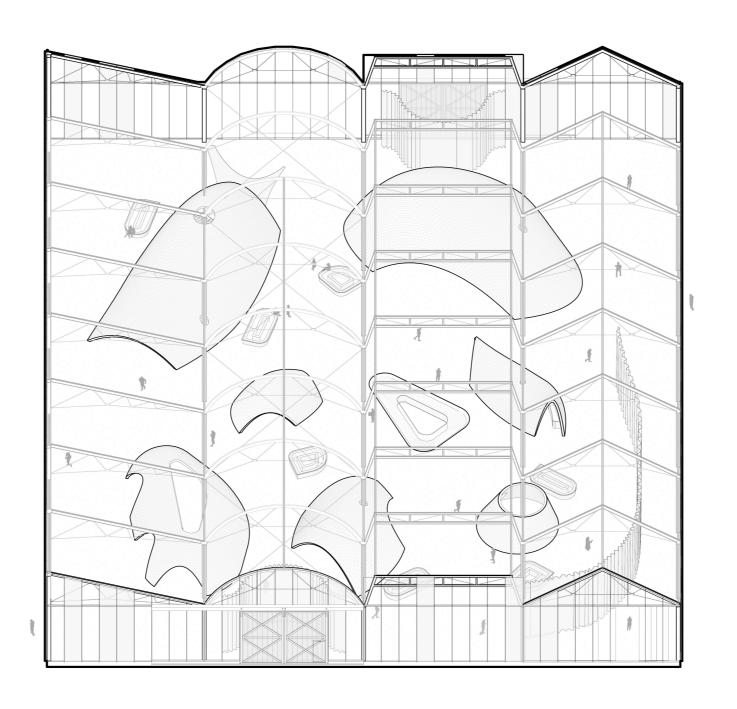
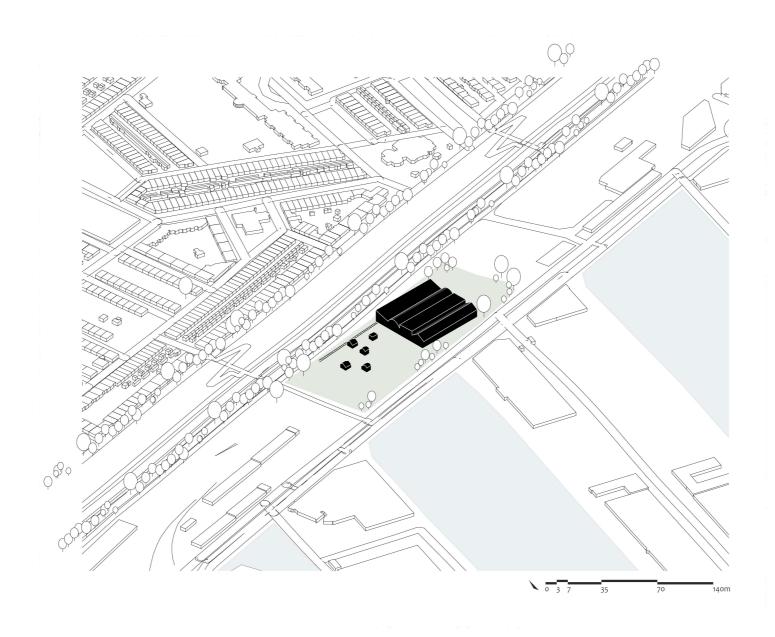
BRICK HOUSE; CREATIVE HUB



SITE OVERVIEW



EXTERIOR

NEIGHBOURING INDUSTRIAL/ GREENHOUSE BUILDINGS

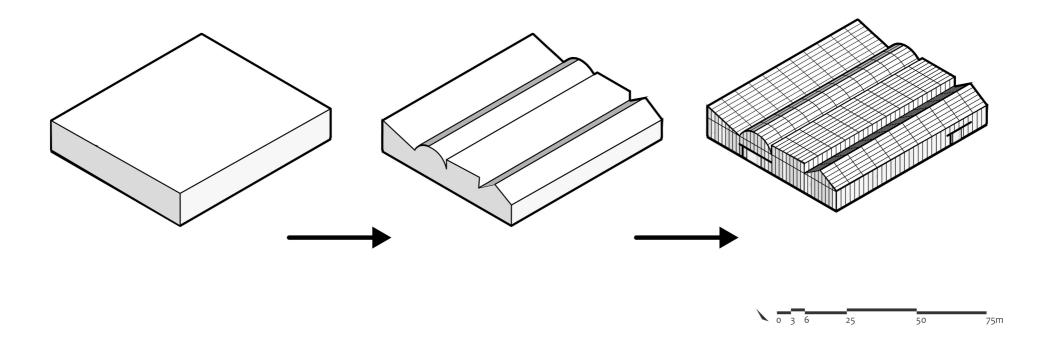




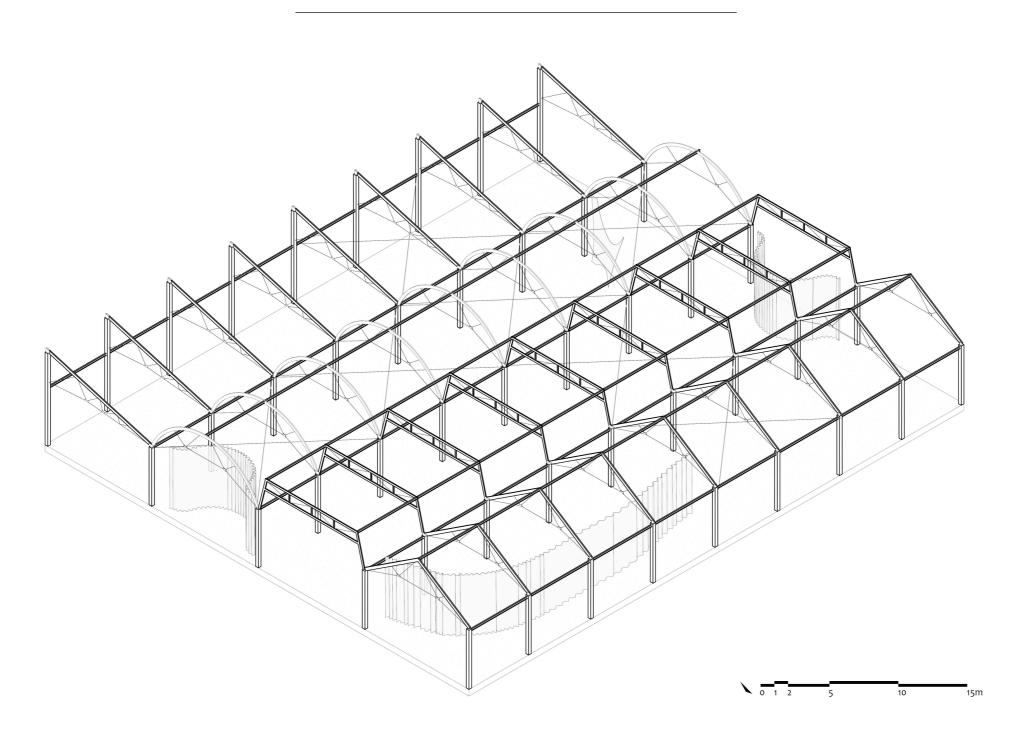




IMPLEMENTATION ROOFS

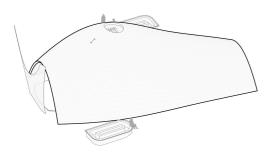


CONSTRUCTION



PROGRAM SCALE

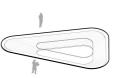
COMPRESSED EARTH BRICK VOLUMES

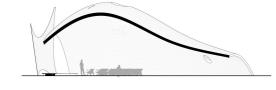




















AUDITORIUM

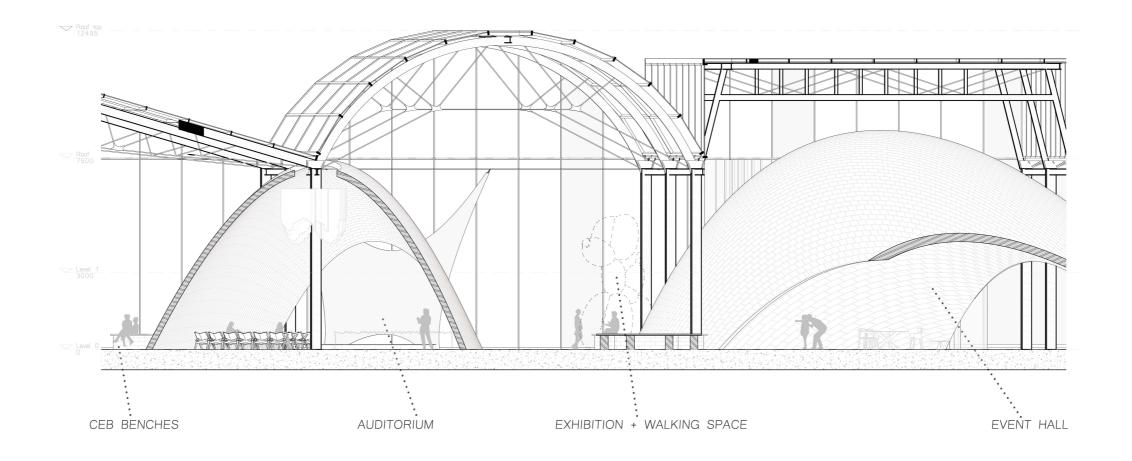
INDOOR WORKSHOP SPACE

RESTROOMS

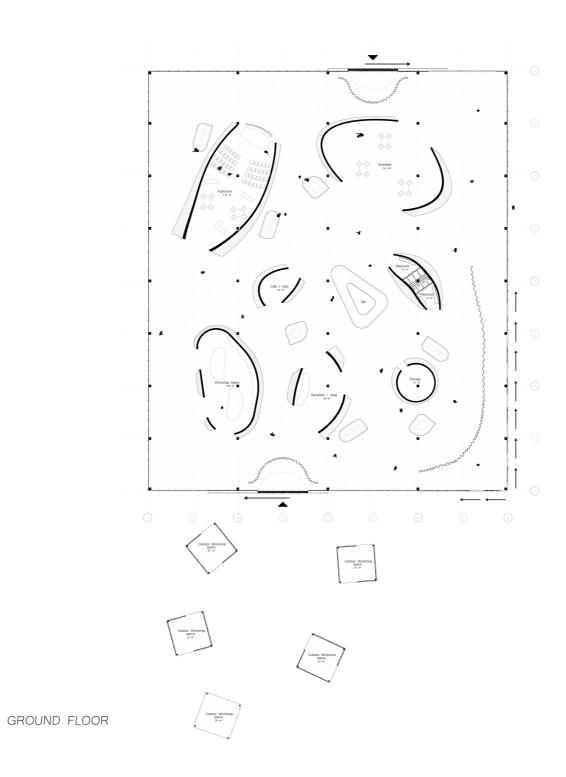
RECEPTION

BAR

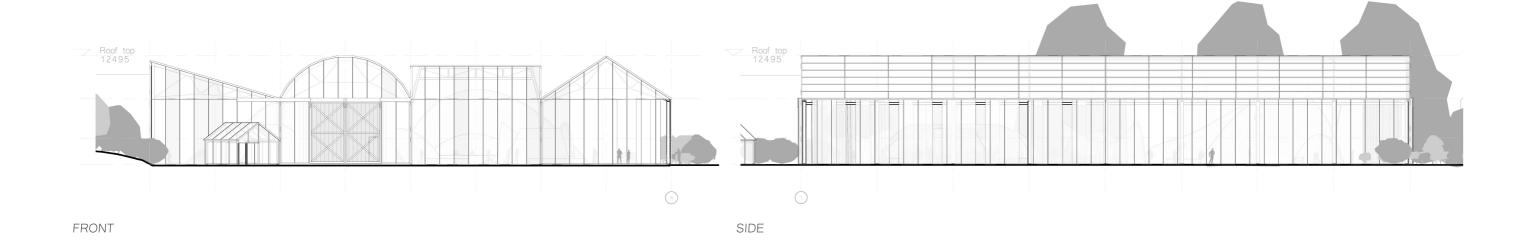
SECTION



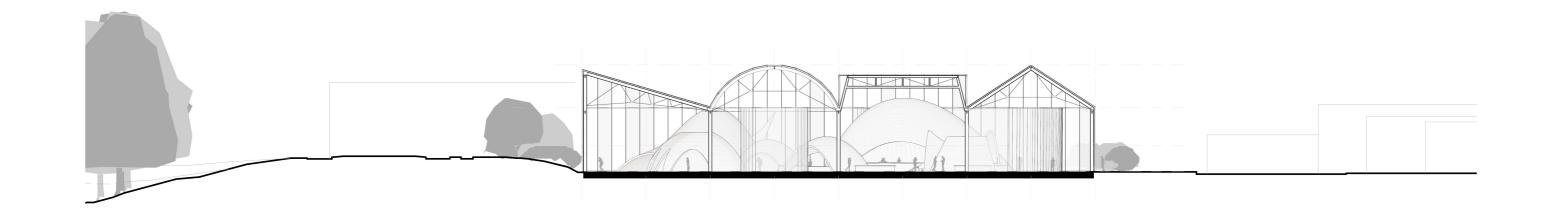
PLAN



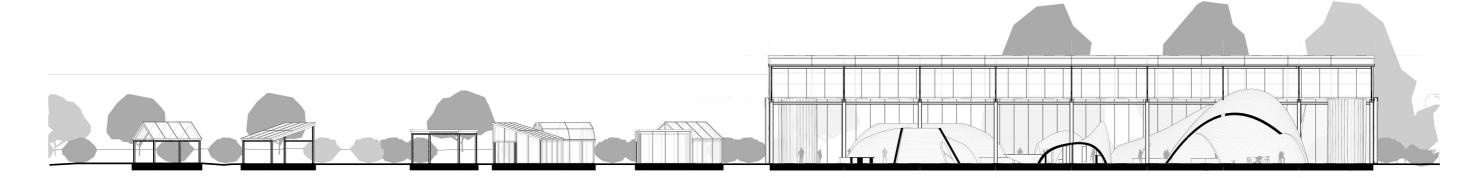
ELEVATIONS



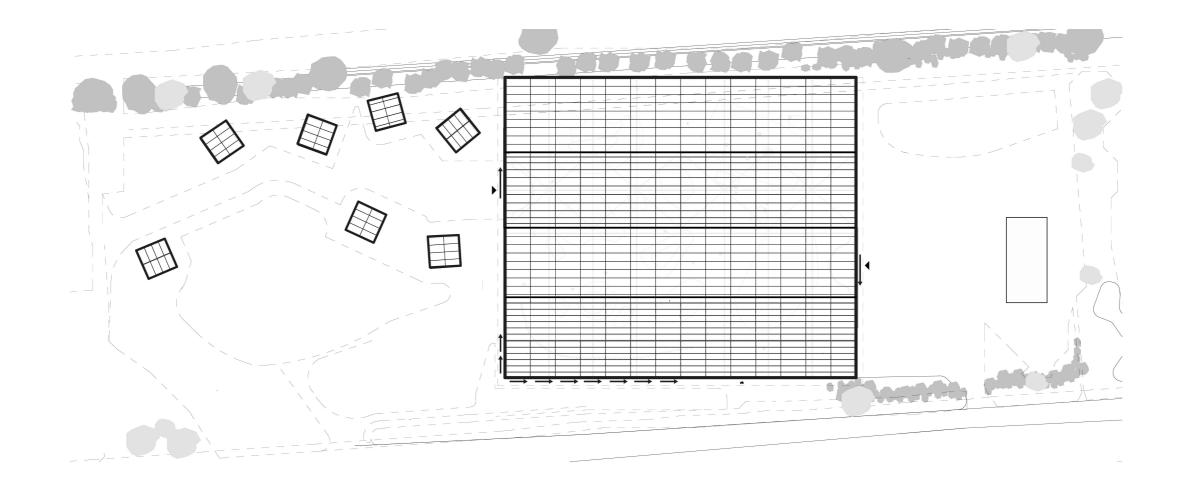
SECTIONS



SECTIONS



SITE PLAN



MODEL



MODEL

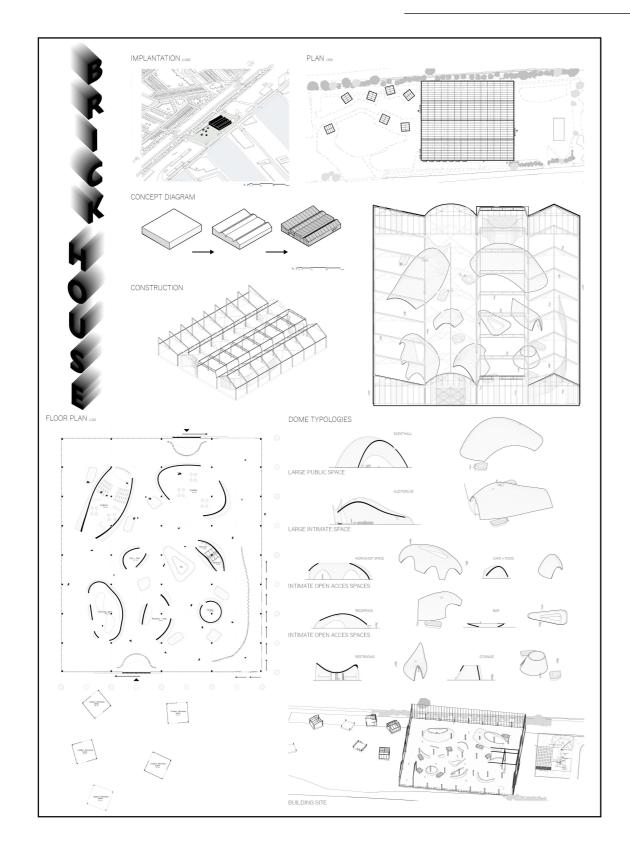


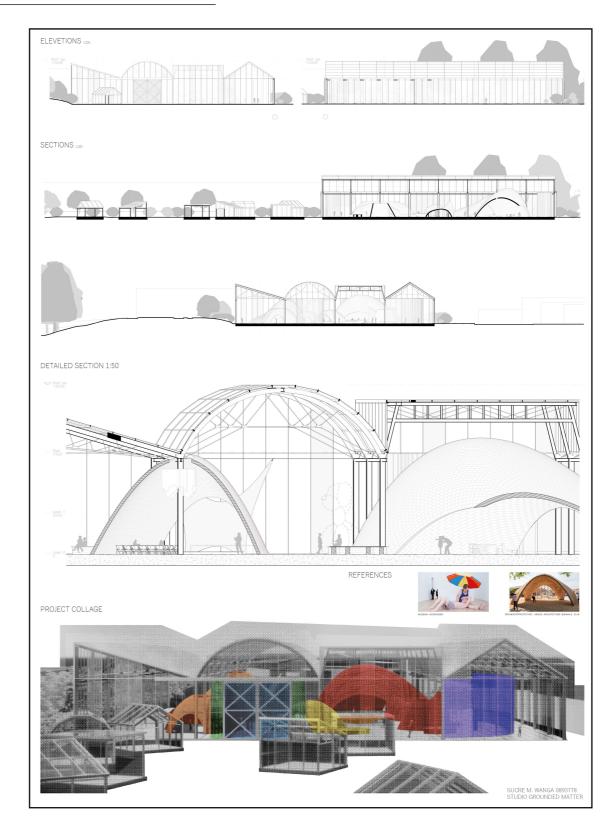




1/50 1/200

PRESENTATION POSTERS





PROPOSITION

Because of the high kilnfiring temperatures, the firedclay Concept: industry has high energy consumption and is responsible. In support of my approach to my previously made argu-Yes, this transparent facade with its highly reflective naenergy of concrete blocks, it's expected that in the future building and its concept and design. this material will gain a higher market share. Still, ma-144 billion units respectively. The remaining countries are pearance of the forefront of going into this direction. responsible for the production of 422 billion units. This the dramatic increase of urban population.

blocks F. Pacheco Torgal, in Eco Efficient Masonry Bricks and Blocks, 2015

materials are appealing and interesting to use.

for high greenhouse gas emissions (GHG). The crea- ment in showing the potential and persuading the mass- ture will appear dark and opaque in certain angles, but tion of fired clay bricks has an energy consumption that es in why building with CEB is so beneficial, I want to it's also one of its few liabilities to have some privacy is almost 300% higher than the energy consumption of showcase this potential to the fullest. To do this zooming during the day. concrete blocks. Taking into account the lower embodied out first on the matter and gradually zoom in to the What makes my project interesting is that it's not real-

sonry fired clay bricks and concrete blocks are and will I want to spark the conversation and head in a differ- all about being a means of persuasion and sparking the continue to be widely used construction materials around ent direction. Use the bricks in their strengths and bring interest to use rammed earth in a more general sense in the world, even in highly developed countries. China them into a more modern place. Replacing the materials the West. With the exaggerated shapes, I want people alone is responsible for 100 billion units. Around 91% of and solutions in the space where CEB would make more to question what the volumes are made up from, show the total brick production (1391 billion units) concerns sense. Trying to ignite the way we think about CEB and the versatile usage and give them familiarity in the CEB's handmade bricks. China and India are the major produc- layout the path into venturing further with CEB in a more recognizable appearance. The best solution is to just ers of handmade bricks, respectively, with 700 billion and external and primary building solution. CEB is in the ap- spread the word get people to know about it and work

leads to the exploitation of hundreds of millions of tons of Accessibility and manufacturing potential. Similar use and lot to learn and develop but I'm convinced in the nonrenewable resources and, to make things worse, in the flexibility in assembly, aesthetic and structural properties. next decades the brick (and block) demand will continue. The capability of CEB, strengths. Not a replacement, a probability of this conversation shifting sooner in a better to rise just because the building construction industry in different approach. The focus is on the structural aspect direction. less developed countries will also rise steadily to deal with of the CEB. How to show the capacities of the earth Threats: brick and simultaneously respect its limits to preserve its. Water and erosion are the biggest threats and stabilizing sustainable properties. To explore the overall sensation of them with cement and calcium will take away the sustain-Source: Introduction to eco efficient masonry bricks and the building, give it a lighter feel through the use of other able aspect of the CEB. For this, I'm researching ways materials, light, and space.

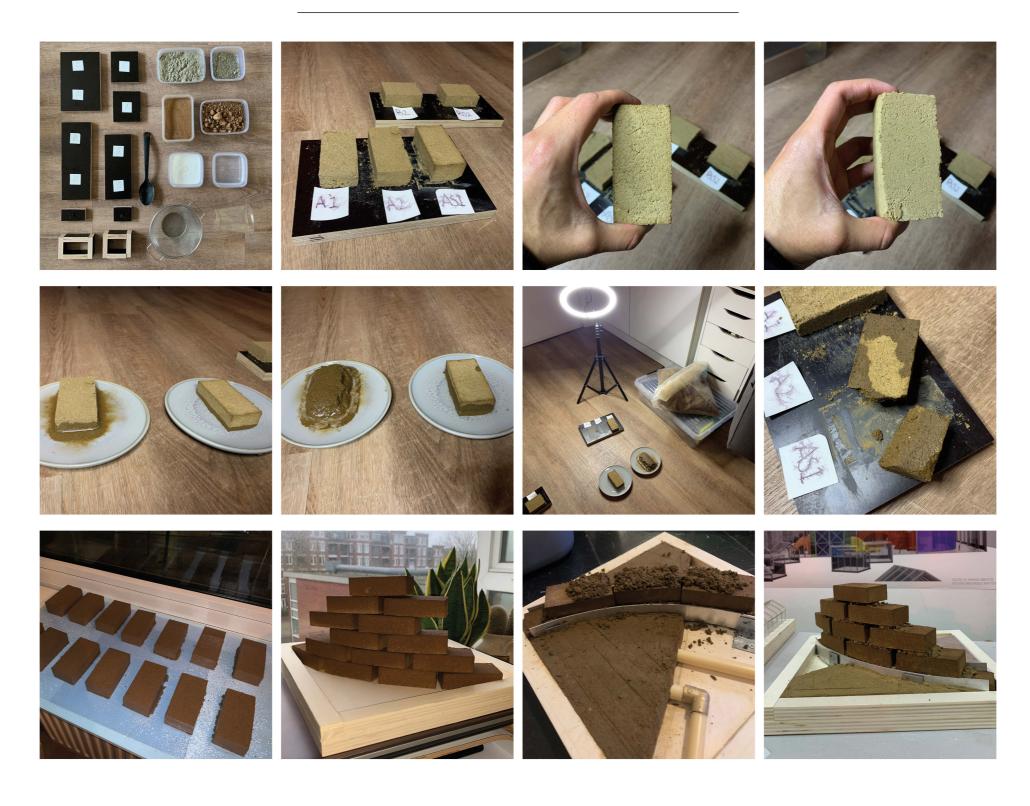
My concept is to have this showcase for the brick. The water a hydrophobic layer and increases its water resist-The material seems to have a great potential for use in brick volumes will be the main attraction in the building ance. This aspect can also be part of the brick showcase construction applications especially in many of the world's and form a part of the exhibition itself. The exhibition and further development and marketing for the CEB. developing areas. Using the new technique, compressed space and walking route will be the same. The exhibition earth brick will have more adequate mechanical properties will form the spine of the whole building and connect the in addition to superior weathering resistance as compared different spaces. The volumes are positioned in a way to other earth construction materials. The material will that will evoke this sense of circularity within the building. have a lower environmental impact and lower costs than Everything feels connected. This connection fits in with the other construction materials. Also, more social acceptability circular and sustainable nature of the brick. The open free of the materials is expected because their appearance is realm format will further enforce a sense of lightness in similar to other available materials. The range of design the building which is beneficial due to the CEB's heavy possibilities in combination with other earth techniques and nature. This glasshouse concept will come into fruition as a greenhouse with PVC curtain panels and aluminum mullions and building upon already existing solutions Climate comfort-wise within a greenhouse.

Functionality

ly about the most efficient or best use of the brick in Holland. I think that might be a bit early. My concept is with it so that will generate a new wave of experimentation with the material and expand further. There is still a

into giving the CED hydrophobic properties in a nonchemical way. Therefore I'm using Soy milk which gives the

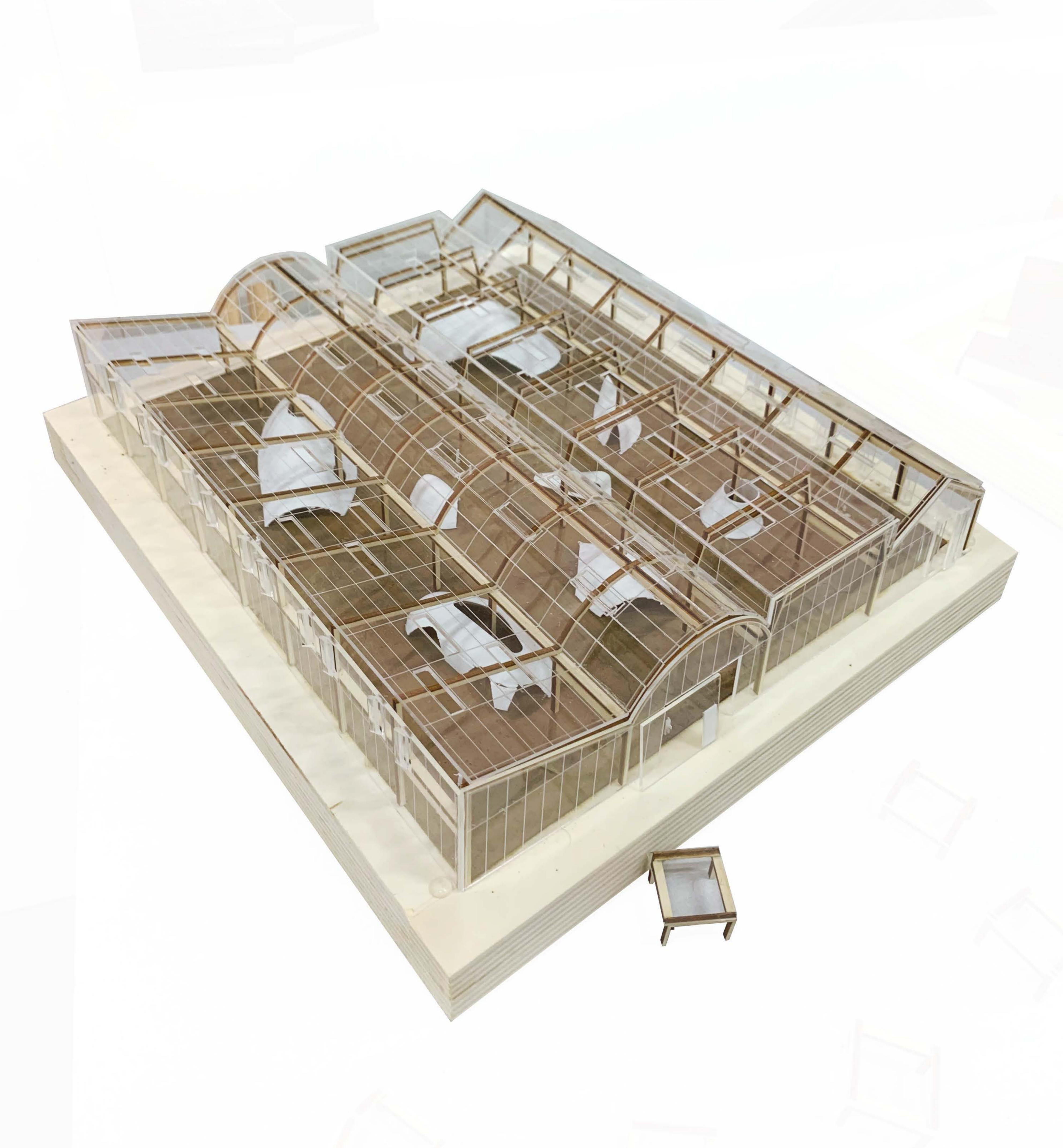
MATERIAL RESEARCH











COLLAGE

