

Portfoolio: disain ja arhitektuur
Portfolio: design and architecture



Sander Joosep Siigur
2020

Kunstniku positsioon

Mind on alati paelunud lai spekter teemasid, alustades sotsiaalsetest käitumistest lõpetades astrofüüsikaliste sündmustega. Sama kehtib ka arhitektuuri ja disaini osas, kuid et selles segaduses mingit korda luua, olen otsustanud oma huvialad kategoriseerida.

Mu üldine suund on olnud alati tugevalt intuiitivne, kuid sellest moodustuvad reeglina matemaatiliselt rehkendatavad, korrapärase struktuuriga teosed. Enamasti leian ma inspiratsiooni kas looduslikest fenomenidest või juba eksidteerivast geomeetriast, valides neist paar mille ümber oma konseptsioon luua. Aastate jooksul olen ma oma töös hakanud ka üha rohkem rõhku panema materjalidele ja jätkusuutlikusele ning ruumi psühholoogilisele mõjule.

Varajasem kogemus

HARIDUS:

2016-2020	Eesti Kunstiakadeemia (EKA), Sisearhitektuur, BA
2013-2016	Vanalinna Hariduskolleejum
2004-2013	Tallinna Rahumäe Põhikool

TÖÖKOGEMUS:

2019	Vabakutselise sisearhitekti assistent
2019	Praktika SISU sümposiumil
2018	MA „Sissejuhatus Rhino3d-sse” kursuse läbiviimine EKAs
2017	Ehituspraktikaks tööjooniste tegemine ja ehitustöö juhatamine

PROGRAMMID:

Rhinoceros - Rhinoceros 6,
Grasshopper
Adobe Creative Suite - InDesign,
Photoshop, Illustrator
Autodesk - AutoCad, Revit, Maya
Microsoft - Word, PowerPoint, Excel

TEHNOLOOGIAD:

Laserlõikur, 3D-printimine, CNC
treimine, maketeerimine

KEELED:

Eesti keel (emakeel)
Inglise keel (CERF tase C1)

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asukoht Tartus

Artist's statement

I have always been fascinated by a wide array of topics, starting with social behaviours, finishing with astrophysical events. The same is true for architecture and design, thus to create order in this chaos I have decided to sort my fields of interest into categories.

My overall direction has always been strongly intuitive, although it generally materializes as an orderly structured and mathematically calculatable product. I usually find inspiration from either natural phenomena or pre-existing geometries and form my concepts around a few of them. During the years I've also started to emphasize the importance of materials and sustainability, as well as the psychological effect of our surroundings.

Curriculum vitae

EDUCATION:

2004-2013	Tallinn Rahumäe School
2013-2016	Collegium Educationis Revaliae
2016-2020	Estonian Academy of Arts (EAA), Interior Architecture, BA

WORK PRACTICE:

2019	Practice at Symposium of Interior Architecture and Spatial Use
2019	Assistant for a freelance interior architect
2018	Tutor for MA Introduction to Rhino3d course at EAA
2017	Making construction schematics and directing the construction process

PROGRAMS:

Rhinoceros - Rhinoceros 6,
Grasshopper
Adobe Creative Suite - InDesign,
Photoshop, Illustrator
Autodesk - AutoCad, Revit, Maya
Microsoft - Word, PowerPoint, Excel

TECHNOLOGIES:

Laser cutting, 3D-printing, CNC milling,
model making

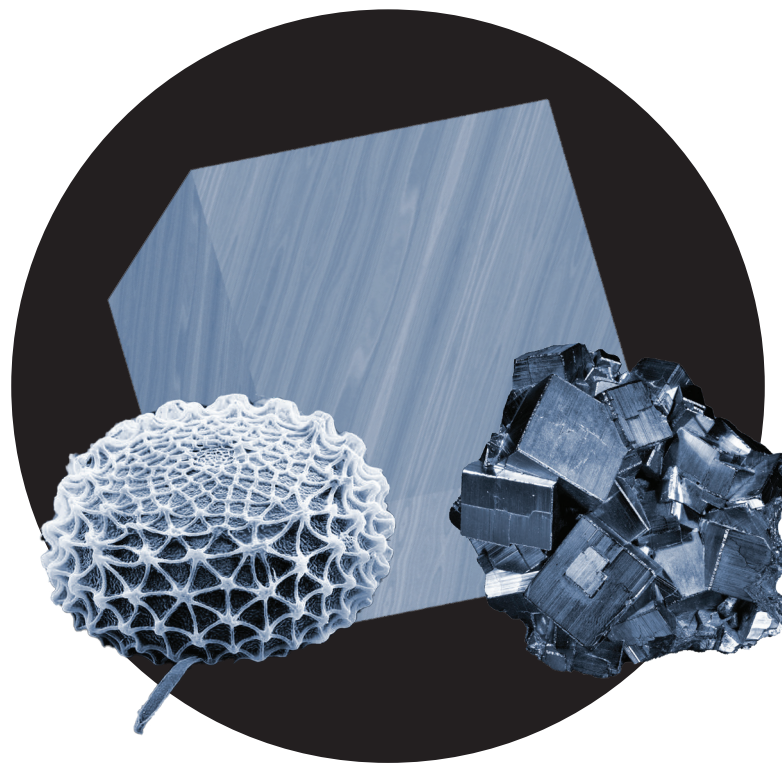
LANGUAGES:

Estonian (native)
English (CERF level C1)

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Väikevormid *Small Forms*



Minu jaoks on väikevormid üks tähtsamaid disainikategooriaid. Kuna tegu on inimskaalal astesevate objektidega, tuleb eriti tähelepanelik olla nende mõju osas inimese isiklikule kogemusele. Sobilike väikevormidega on võimalik ka kõige vaenulikumast ruumist jätta kutsuv ja meelde jääv mulje.

For me, small forms are one of the more important categories of design objects. These are the pieces that need to pay extra close attention to individual experiences as they need to connect with the human scale. With the appropriate small forms, even a most hostile space can be made welcoming and memorable.

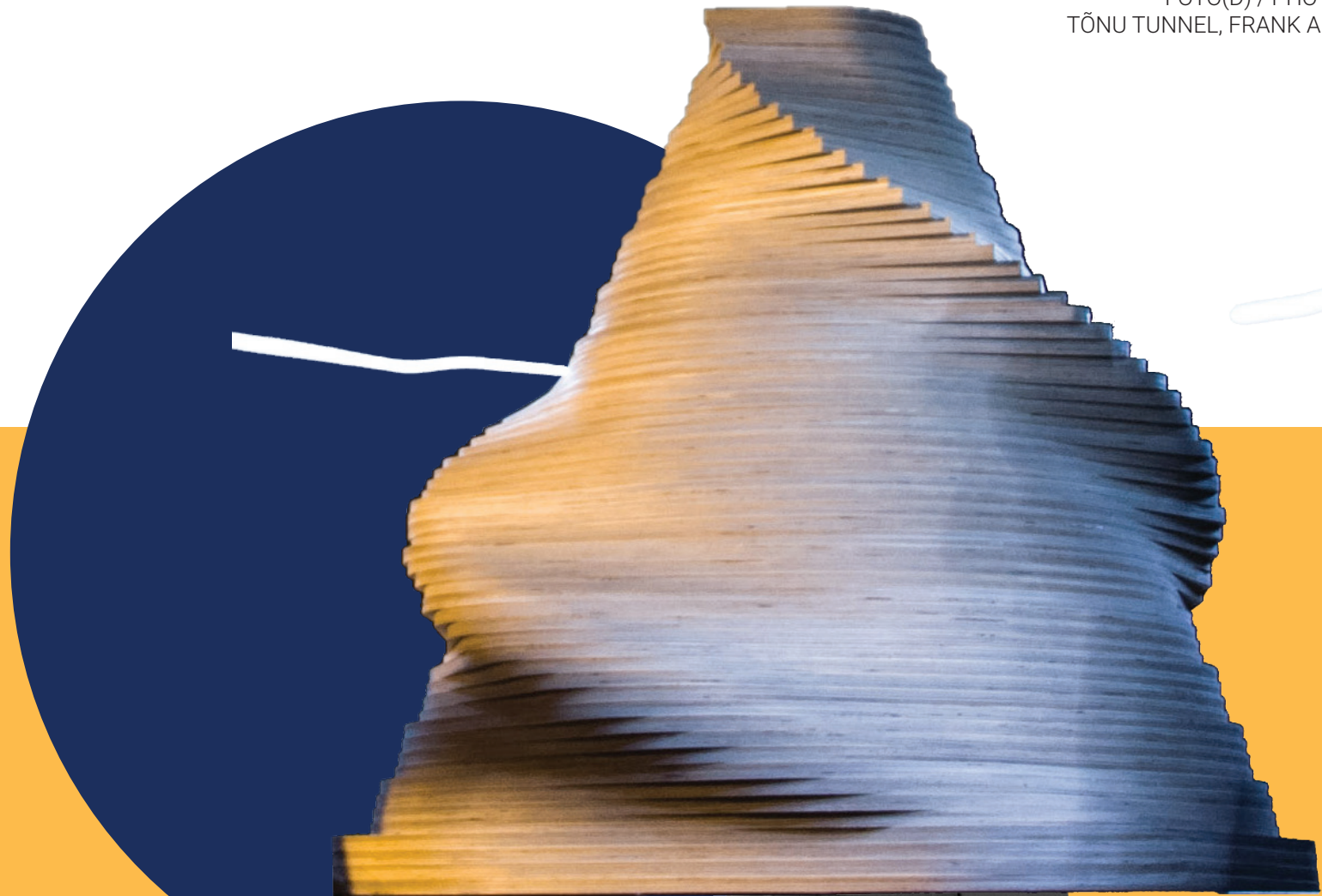
Koonus / *Plycone*

AUTOR(ID) / AUTHOR(S):
SANDER JOOSEP SIIGUR

JUHENDAJA(D) / TUTOR(S):
SILLE PIHLAK, AULO PADAR, AVO TRAGEL

FOTO(D) / PHOTO(S):
TÕNU TUNNEL, FRANK ABNER

2016

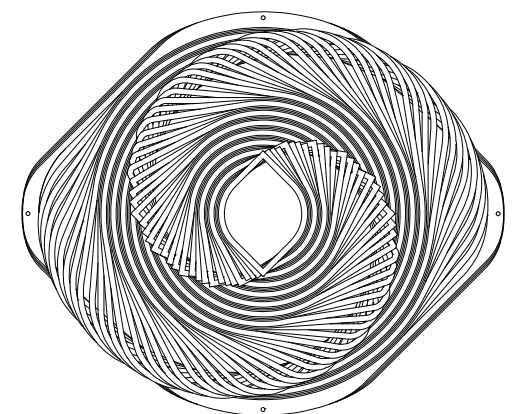
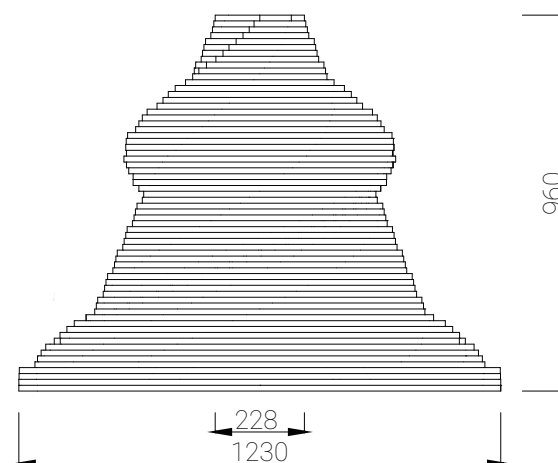
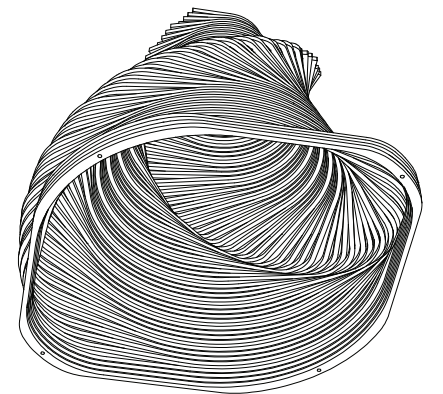
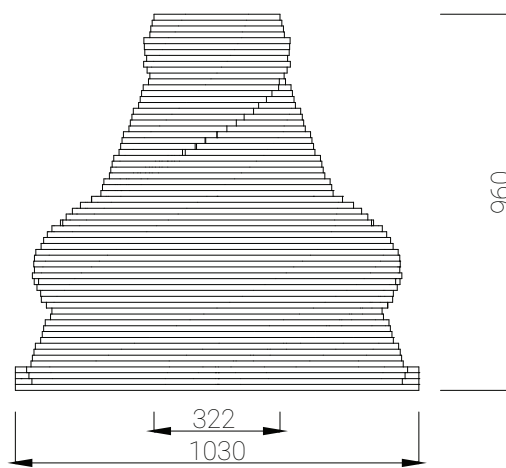
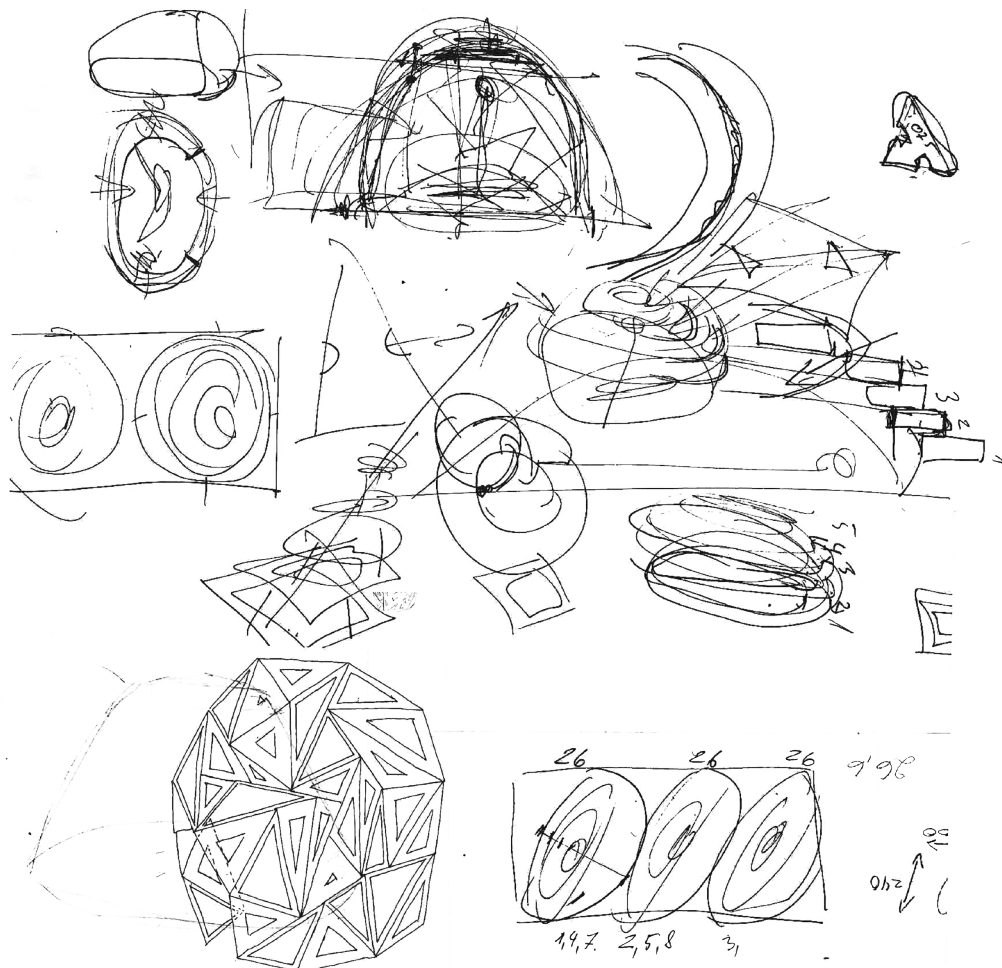


Esimese kursuse projekt
Koonus kannab nähtavast ja
kuuldavast mürast eraldamise
funktsiooni.

Selle kujundamisel on
saadud inspiratsiooni
siiigiusside kookonitest ja
realiseerimisel on kasutatud
erinevate sakraalarhitektuuri
traditsioonide, või
nii-nimetatud püha geomeetria,
printsipe. Tulemust võib
nimetada omamoodi
miniatureseks pühamuks.

A first-year assignment -
Plycone is meant to stand
as a separating space from
the visual and vocal noise of
the surrounding environment.

With the design derived from
the cones of silkworms, it has
principles from different
religious architectural
traditions or so-called sacred
geometry weaved into it,
which makes it into a kind of
miniature sacral space.



Tugitool / *Armchair*

AUTOR(ID) / AUTHOR(S):
SANDER JOOSEP SIIGUR

JUHENDAJA(D) / TUTOR(S):
ILKKA SUPPANEN, AVO TRAGEL

2017

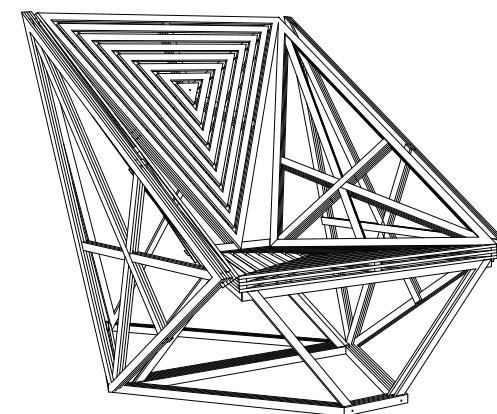
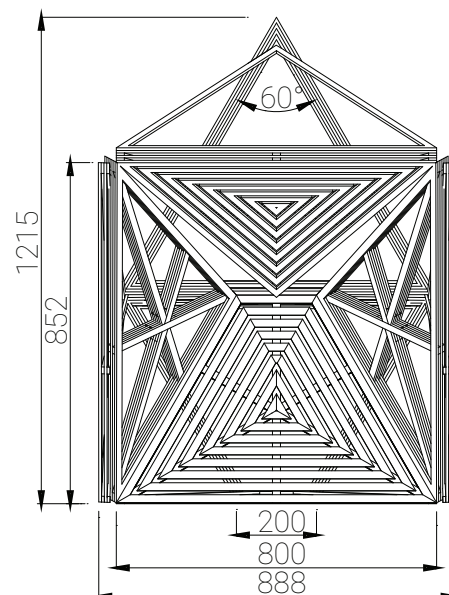
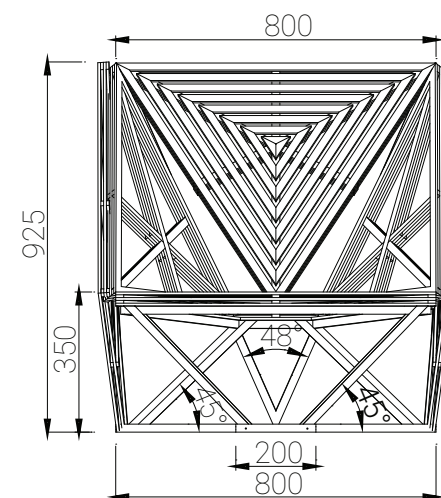
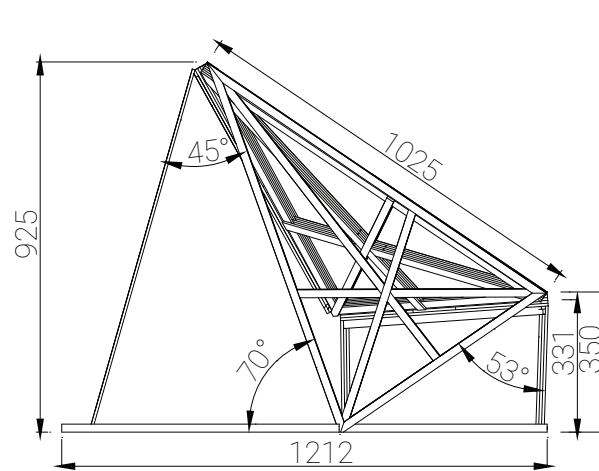


Olles inspireeritud oma sisseastumiskatsete projektist ehitasin kogu tugitooli üles võrdkülgsele kolmnurgale. Vorm sai valitud nii selle geomeetriliste võimaluste kui ka struktuuriliste omaduste pärast.

Ülesandes, mille eesmärk oli valmistada tugitool 20*7 mm puitliistudest, otsustasin ma protsessi nautida ning keskenduda mugavusele ja visuaalile. Mu valikut kinnitas asjaolu, et tugitool on juba oma olemuselt luksuslikumat sorti mööbel.

Inspired by my triangulated enrollment exam project, the whole armchair is based on an equal triangle. The form was chosen both for its geometric possibilities and the structural integrity of a triangle.

As the assignment was to build an armchair out of 20*7mm wooden laths, and as an armchair is already a more luxurious piece of furniture, I decided to have fun with it, focusing on comfort and the visual.

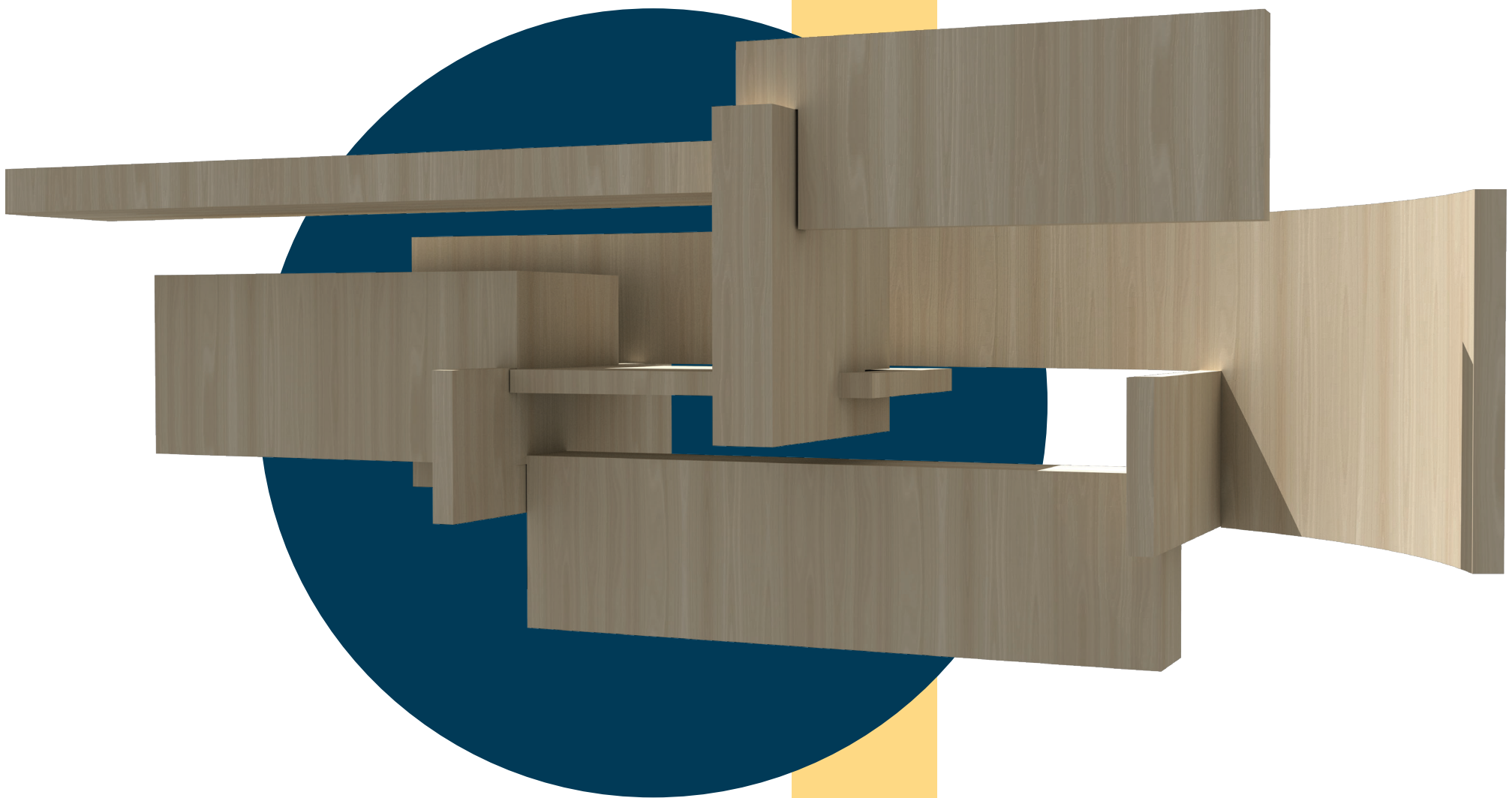


Arhitektoon / *Architectonic*

AUTOR(ID) / AUTHOR(S):
SANDER JOOSEP SIIGUR

JUHENDAJA(D) / TUTOR(S):
ALEKSANDER JAKOVLEV

2017

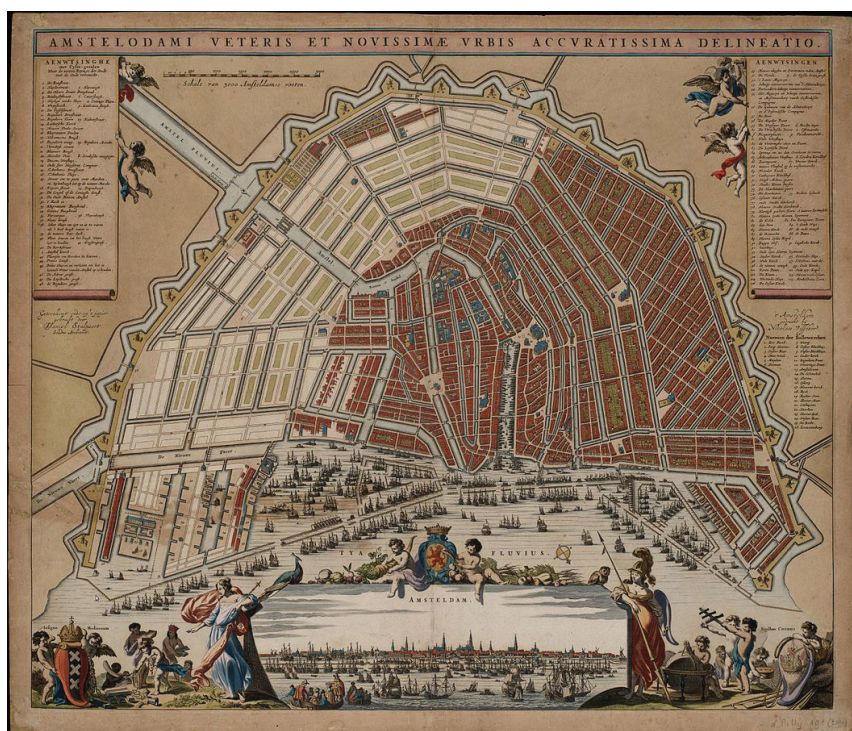


Neomodernistlik
dekonstruktsioon Amsterdami
vanalinna planeeringust.

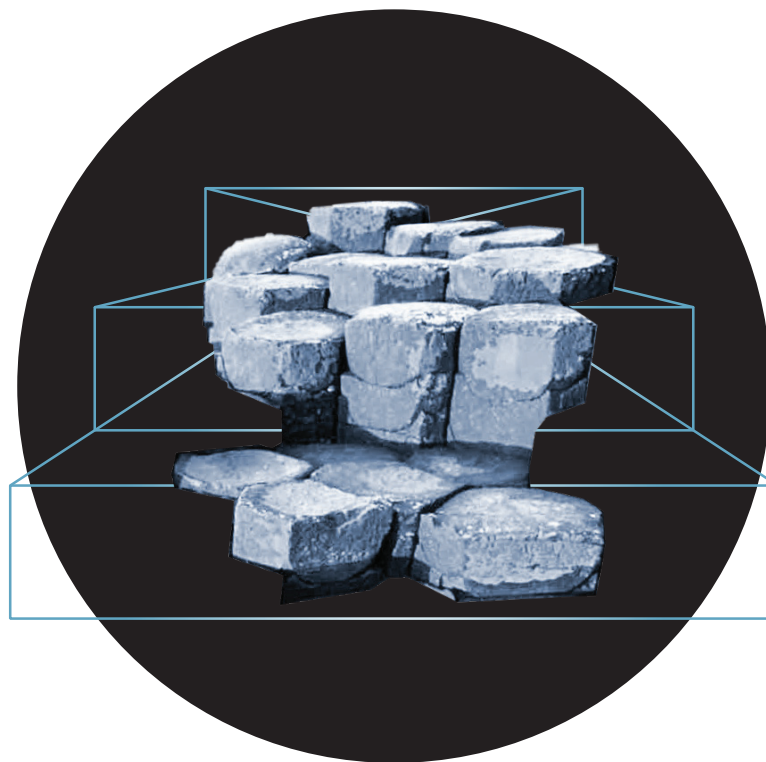
Tõenäoliselt üks mu
abstraktsemaid ja selgestimi
jälgitava disainiprotsessiga
töid. Teostatud nii füüsiliselt
kui digitaalselt, seda
protsessis ja ka lõpp-produkti
pühul.

A Neo-Modernist
deconstruction of Amsterdam
oldtown city planning.

Probably one of my
most abstract works
with the easiest to follow
design process. This is true
for the final product as well as
the design process, executed
both physically and digitally.



Trepid *Stairs*



Mind on trepid alati köitnud. Olles tihtipeale ehitusobjekti keskseks elemendiks kannavad nad lõpliku mulje kujundamises üht suurimat rolli. Olgugi, et trepid võivad olla objektina muljetavadlavad ei tohi unustada nende algupärasest rolli ühendajana, seega peab ka kõige skulpturaalsem trepp olema kasutajasõbralik.

I've always been drawn to staircases, often the centerpiece of any building project, they can either make or break the site. Though they can be impressive in their own right it is important not to forget the main purpose of a stair as a connector between locations. Thus even a statement staircase has to be user friendly.

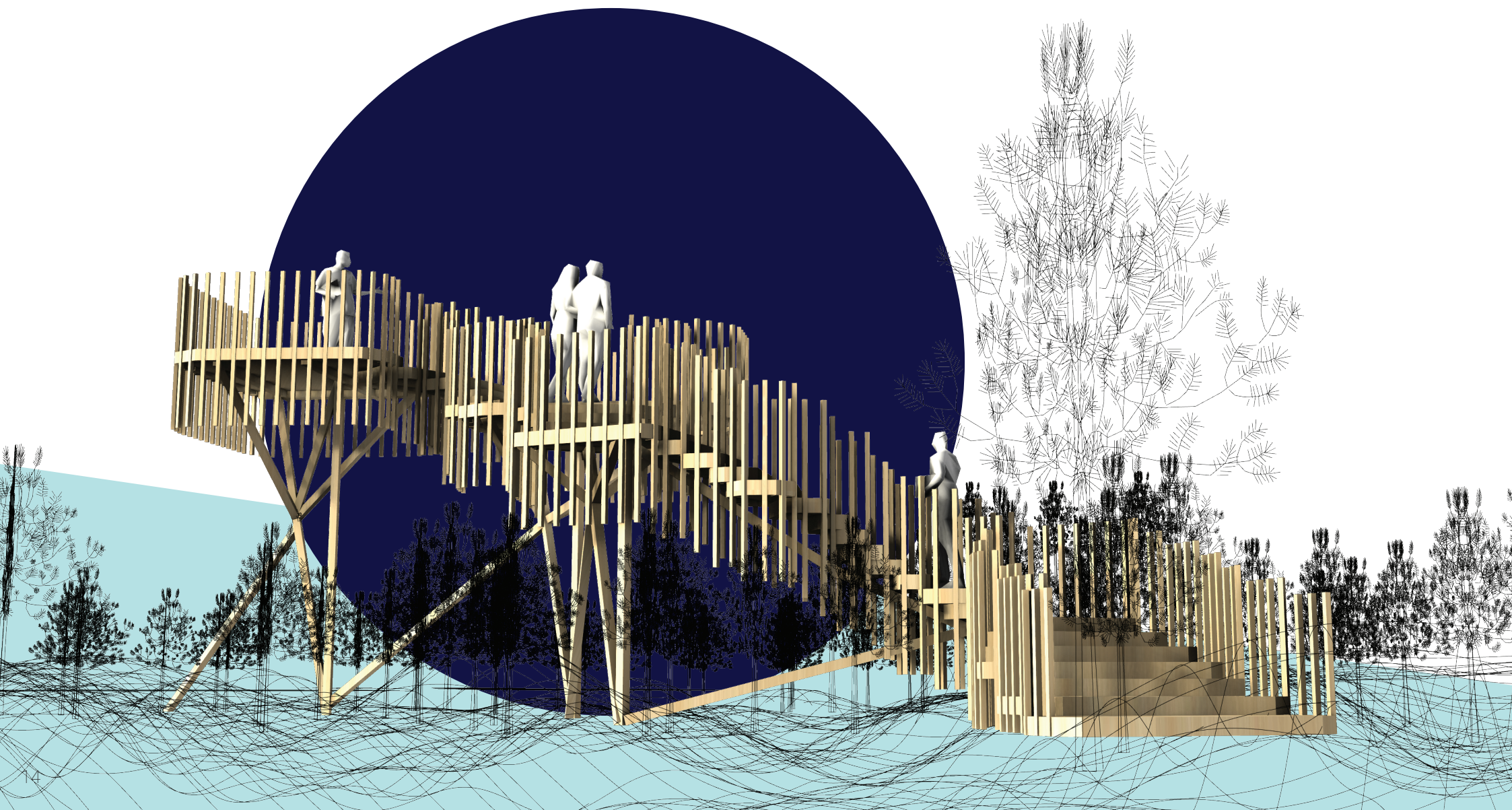
Rabamänd / *Bog Branch*

AUTOR(ID) / AUTHOR(S):
SANDER JOOSEP SIIGUR

JUHENDAJA(D) / TUTOR(S):
B210 ARCHITECTS

ASUKOHT / LOCATION:
TUHU RABA, PÄRNUMAA /
TUHU BOG, PÄRNUMAA, ESTONIA

2017

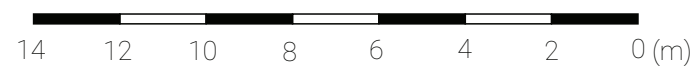
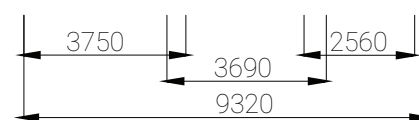
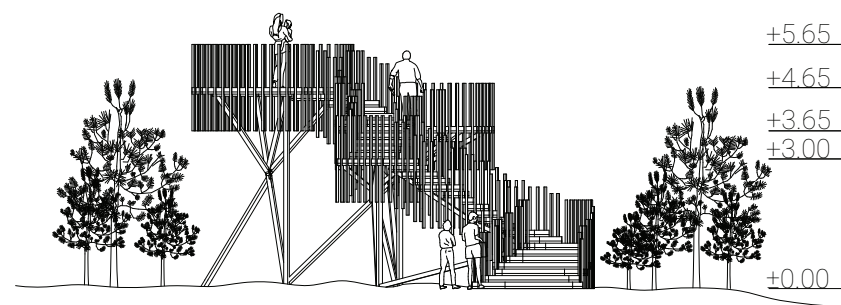
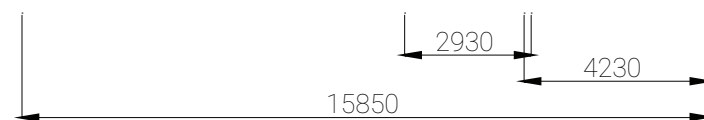
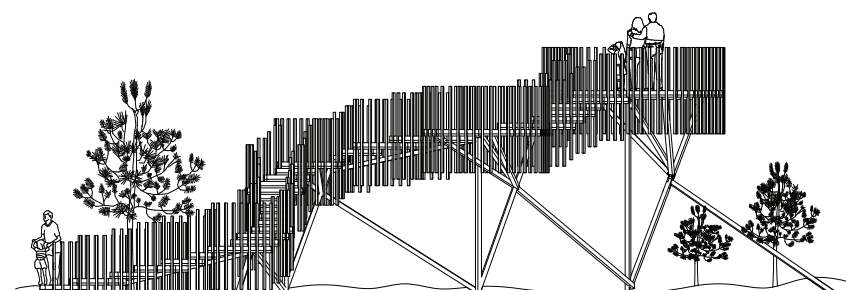
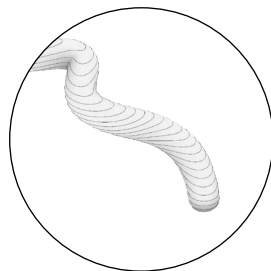
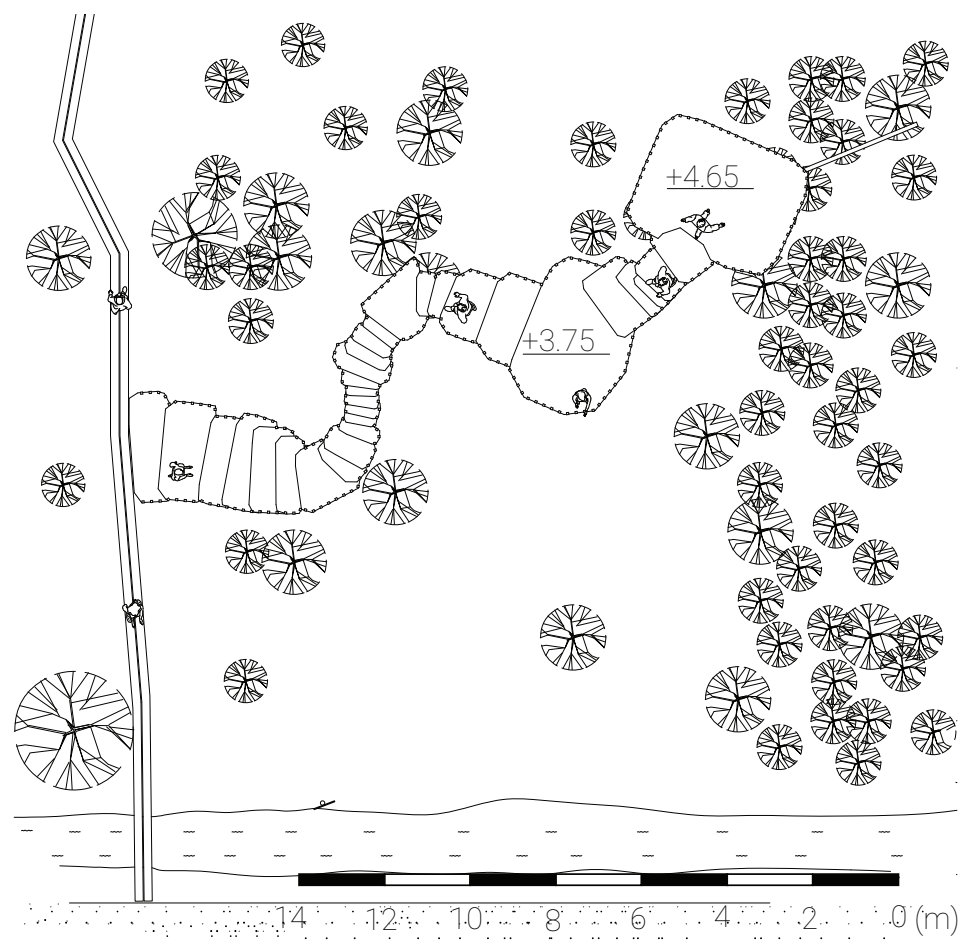


Ideeprojekt Tuhu rappa rajatavast linnuvaatlustornist. Inspiratsiooniks on mulle olnud seal sed rabamännid, mis lisaks oma madalale kasvule ka eriti väänlevad.

Mu enesele määratud eesmärgiks oli luua vaatetorn, mis eristuks senistest eksisteerivatest näidetest ning mille otsa saamine oleks rahulik kulgemine.

Idea-project for a bird-watching tower in Tuhu bog. I got inspiration from local bog pine trees, which, in addition to their small growth, are especially crooked.

My self-assigned goal was to create an observation tower that would differ from the existing examples and which would have a relatively calm rise.



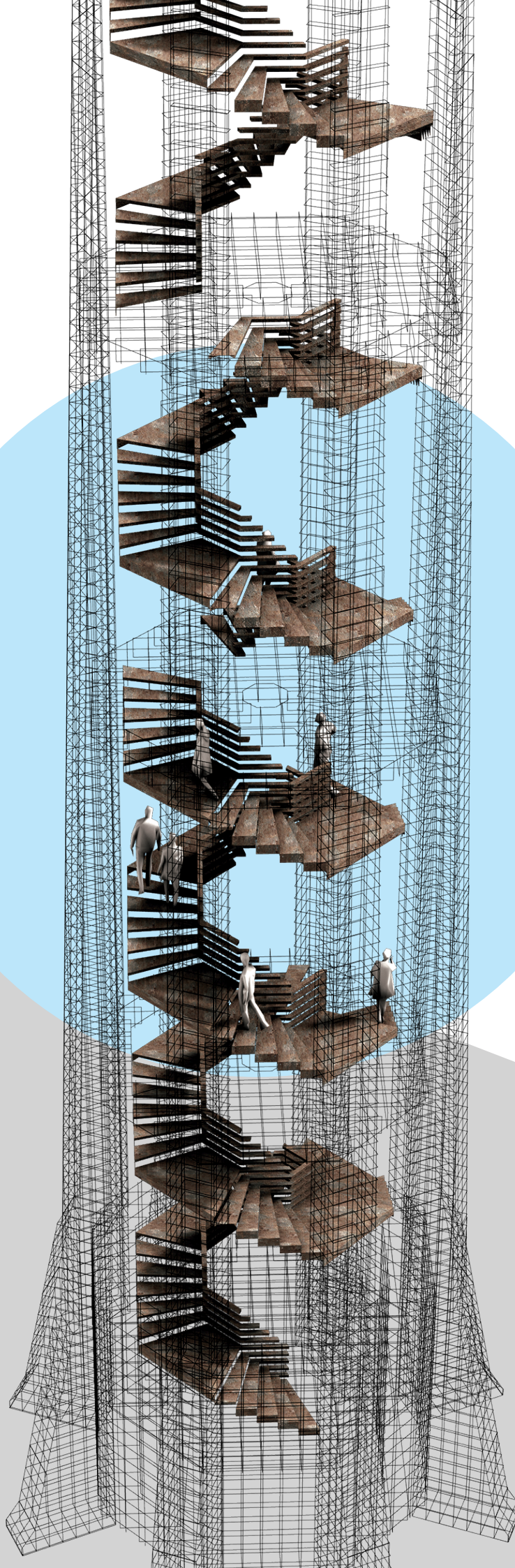
Bekkeri Trepp / *Staircase of Bekker*

AUTOR(ID) / AUTHOR(S):
SANDER JOOSEP SIIGUR

JUHENDAJA(D) / TUTOR(S):
LEENA TORIM

ASUKOHT / LOCATION:
BEKKERI VEETORN, TALLINN, EESTI /
BEKKER WATER TOWER, TALLINN, ESTONIA

2017

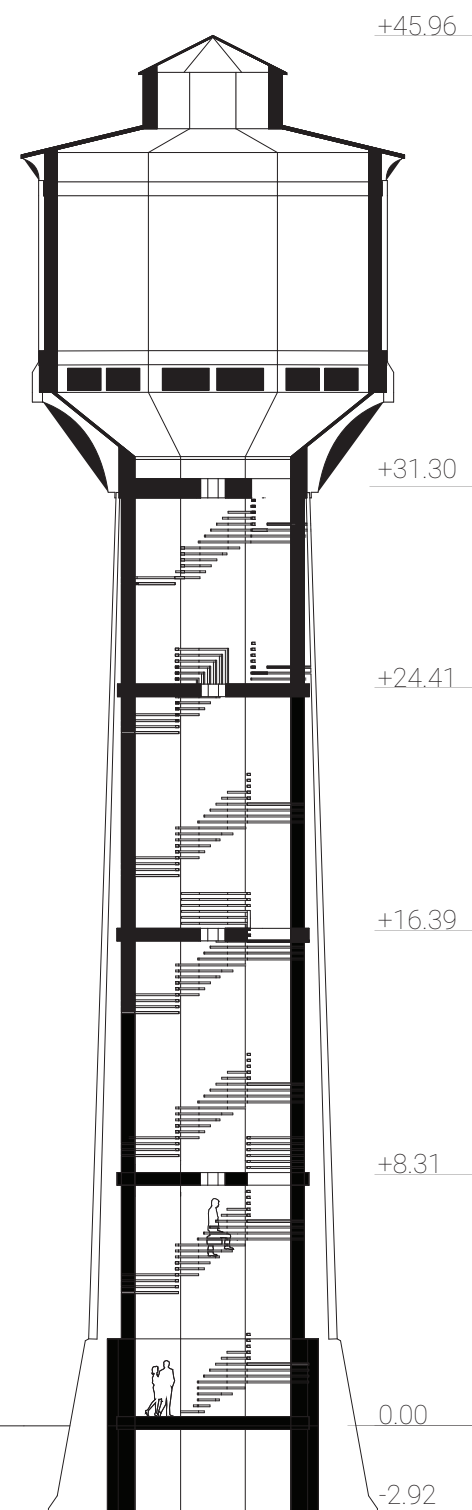
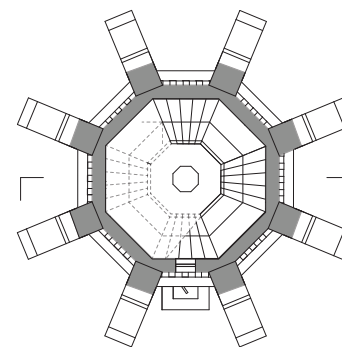
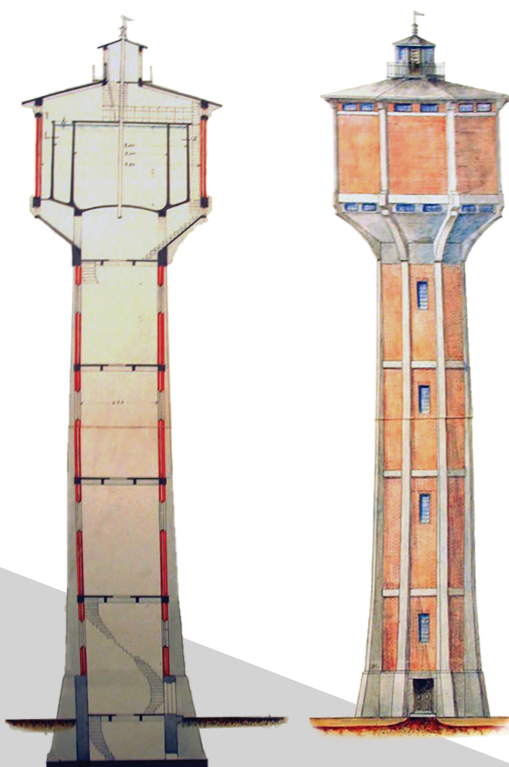


Ideeprojekt tsaariaegsesse veetorni Bekkeri laevatehases. Torni enda geometria suunas tugevalt trepi vormi, oktagonaalne põhiplaan ja korruste kõrgus andsid ette ideaalsed eeldused konsoolse keerdtrepi jaoks. Konsooltrepi tee valisin ka eesmärgiga jätta ruumi alles võimalikult palju õhku.

Kuigi tornis oli ka algupäraselt keerdtrepp, polnud selle taastamine mõistlik, sest hoone pole ajalooliselt piisavalt oluline, et koopia oleks õigustatud. Ka ei oleks koopia vastanud kaasaegsetele regilatsioonidele.

An idea-project for a tsaric era water tower of an old navy base, the geometry of the tower strongly dictated the form of the staircase. The octagonal shape of the tower and height of the stories were as if made for a more modern consol stair system. I also chose the consol to leave as much space in the room as possible.

Although the tower originally also had a spiral staircase, reconstruction of it wasn't an option as the building isn't historically important enough for a replica to be justified, nor would it meet the current regulations.



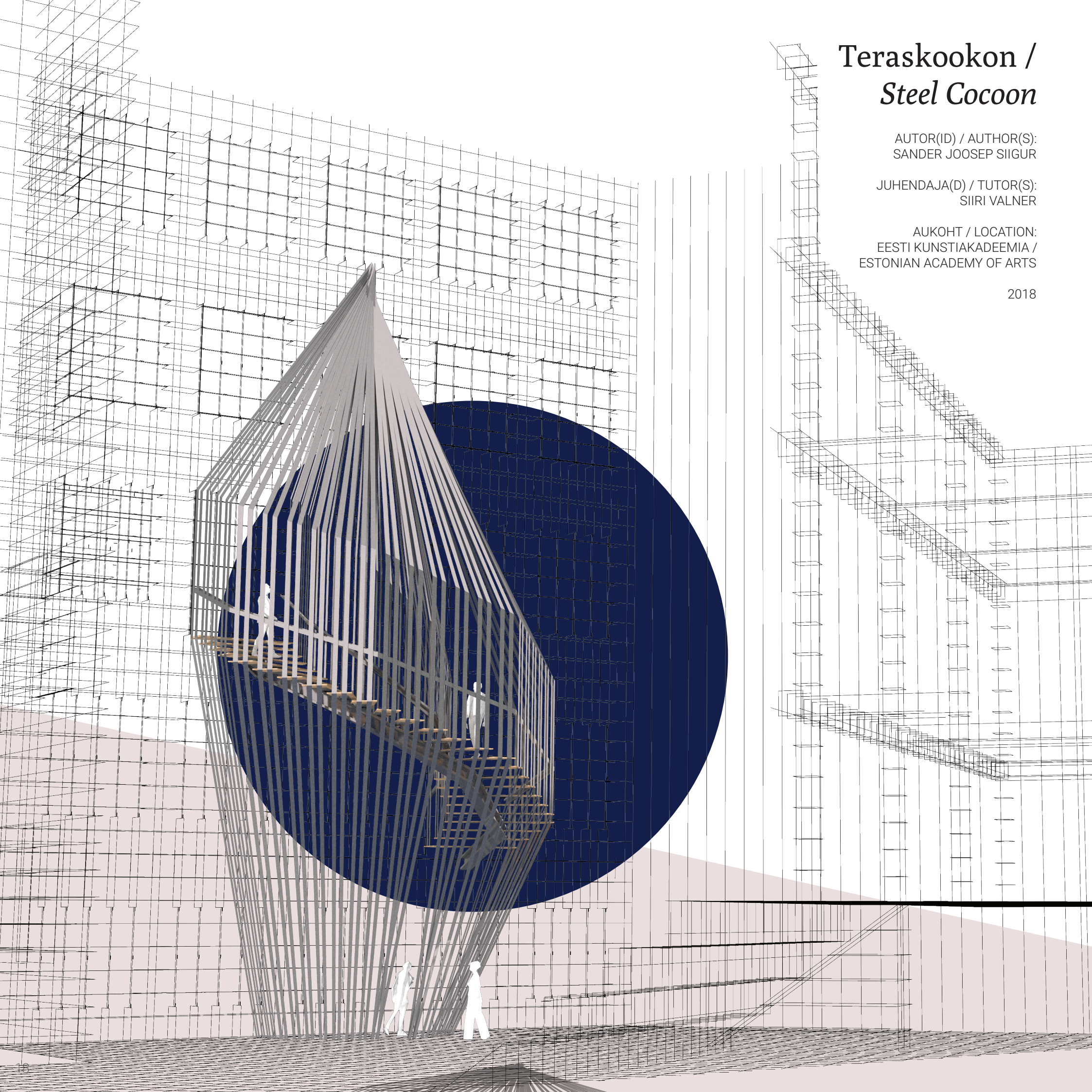
Teraskookon / *Steel Cocoon*

AUTOR(ID) / AUTHOR(S):
SANDER JOOSEP SIIGUR

JUHENDAJA(D) / TUTOR(S):
SIIRI VALNER

AUKOHT / LOCATION:
EESTI KUNSTIAKADEEMIA /
ESTONIAN ACADEMY OF ARTS

2018

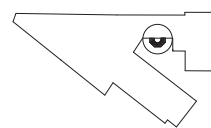
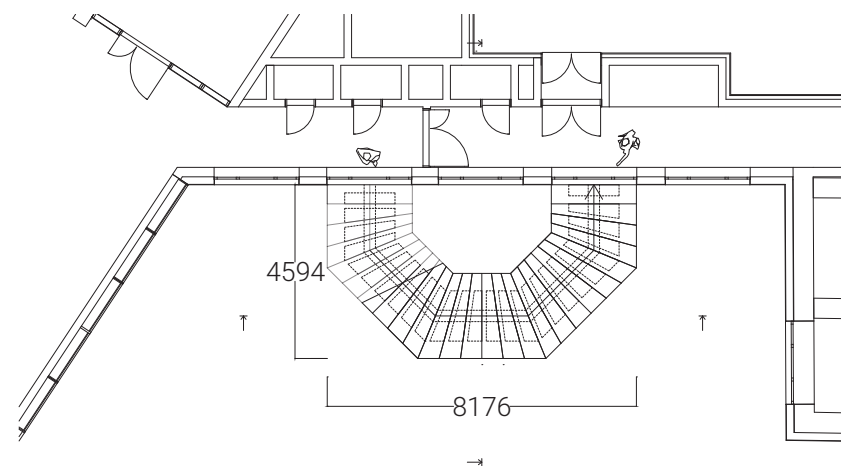


Ideeprojekt Eesti Kunstiakadeemia sisehoovi kuuluvale installatsioon-trepile. Kuna ette oli antud värskelt valminud hoone pidin leidma viisi kuidas piisavalt eristuda arhitektide algupärasest visioonist seda riivamata.

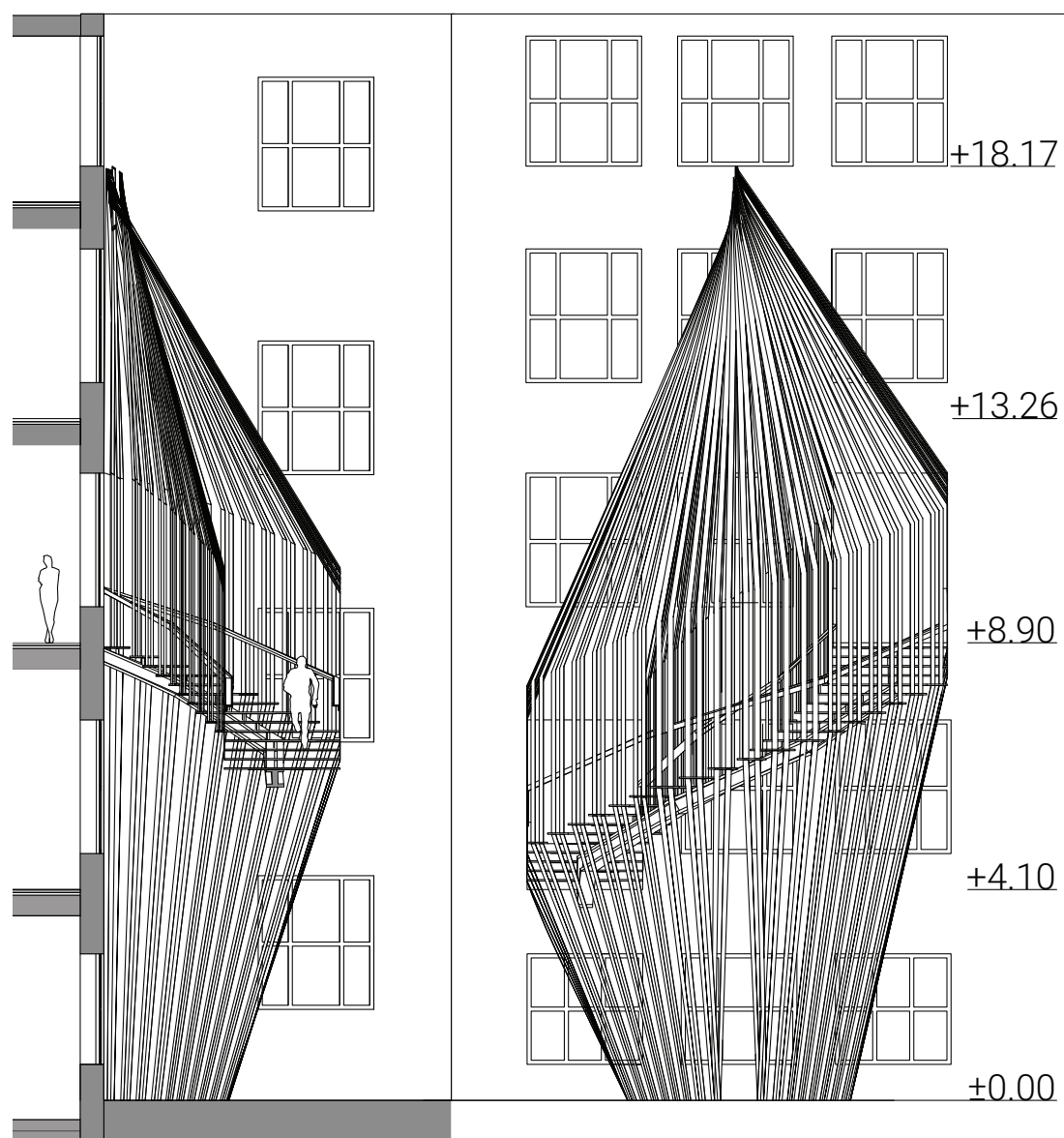
Inspiratsioon sain lehtedele kinnituvatest koi kookonitest, mis kehastid mu eesmärgi ideaalselt. Tulemuseks oli nurgeline poolkaartrepp, jooksmas aknast aknani, mässitud terasest kookonisse, pakkudes rohkem liikumisvabadust kahe korruse vahel.

An idea-project for a staircase to be placed in the Estonian Academy of Arts courtyard. I already had a newly built environment to work with, thus I had to find a way to differentiate my proposal from the original vision of the architects.

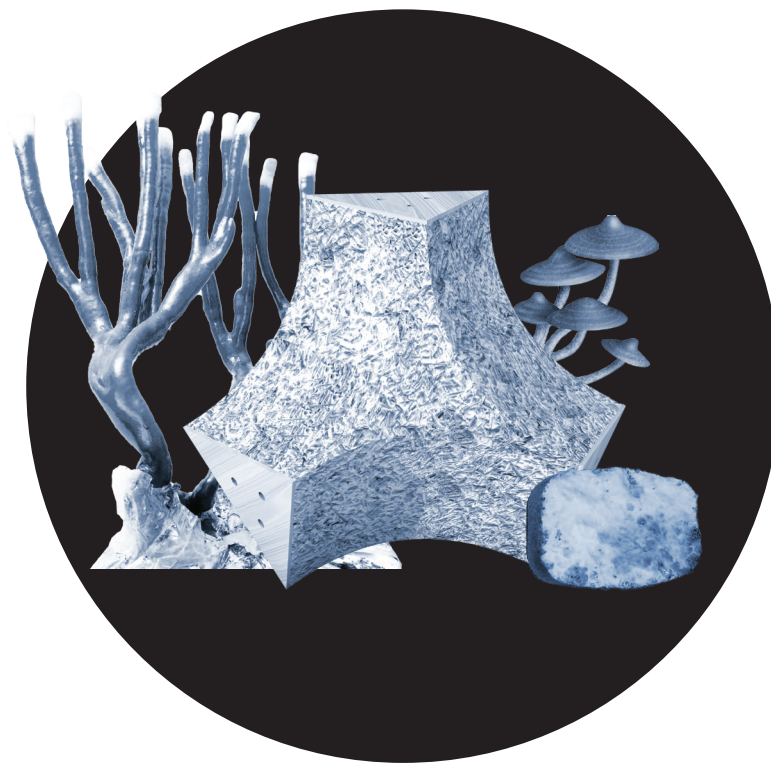
I drew inspiration from a moth cocoon on a leaf, as it embodied my goal. The final project is an angular half-circle within a steel cocoon, running from window to window, offering more mobility between the floors.



5 1 0 (m)



Mütseel *Mycelium*



Mütseel-materjal on tselluloosipõhine aines mis on nakatatud seenega. See protsess annab olemas olevale ainele, nagu saepuru, märkimisväärselt paremad omadused, seda ilma tavapärase tööstuslike võteteta. Tulemus on kerge kaaluline materjal mis, gramm grammi kohta, on tugevam kui betoon. Lisaks on see ka mitte toksiline, tule-, hallitus- ja veekindel ning lukustab endasse rohkem soojust kui klaasvill. Viimasel ajal on see materjal hakanud ka rohkem huvi pakkuma laiemale avalikkusele ja teadlastele, kuid on siiski jäänud niššitooteks.

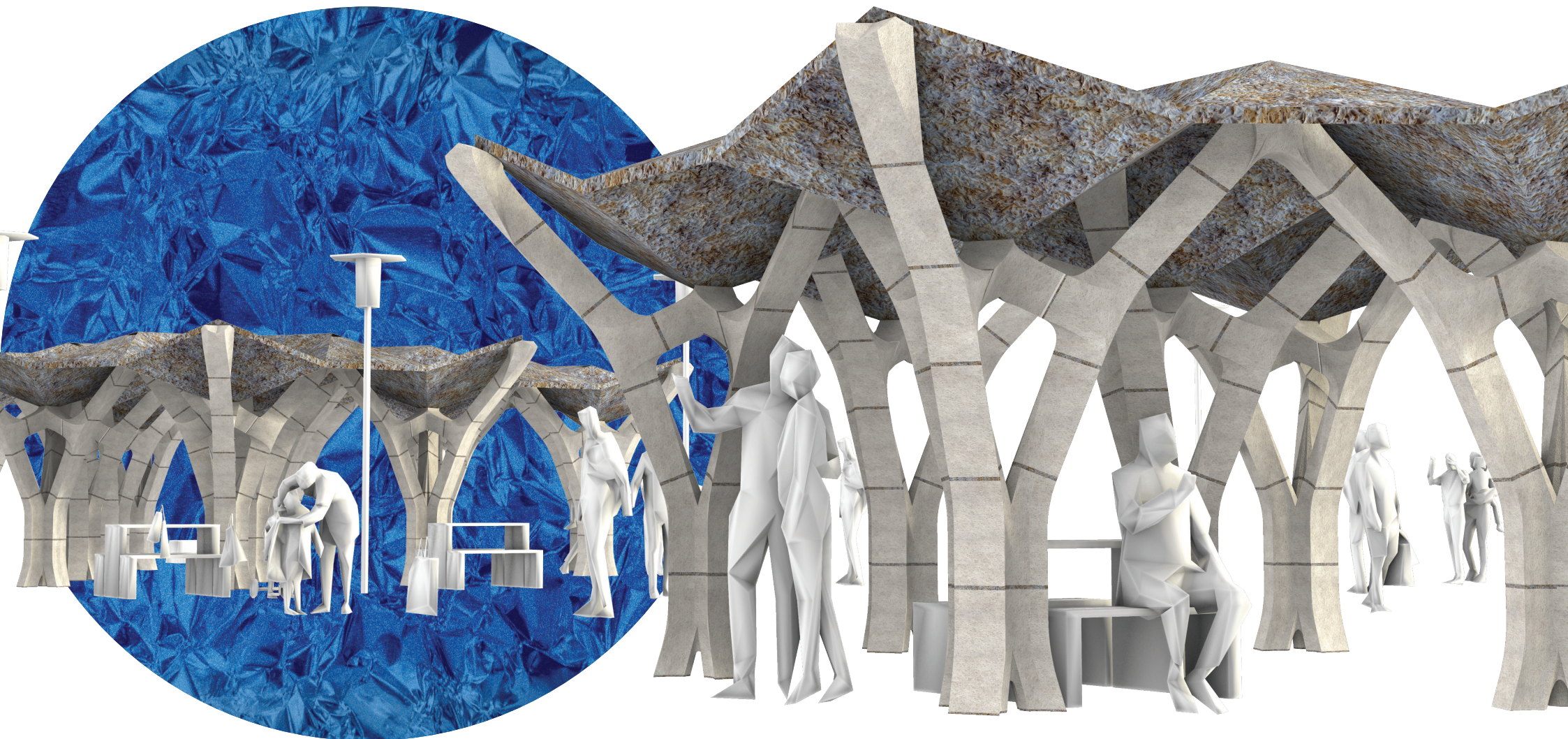
Mycelium material is a cellulose-based substance infected with a fungus. This gives the substance, sawdust, for example, much better properties and that without needing any traditional industrial interference. The result is a lightweight material that, gram per gram, is stronger than concrete. The properties also include nontoxicity, being fireproof, and mold- and water-resistant, and it traps more heat than fiberglass insulation. In recent years mycelium has seen greater interest by the public and researchers, though it still is a niche product.

Mükovari / *Mycoshade*

AUTOR(ID) / AUTHOR(S):
SANDER JOOSEP SIIGUR

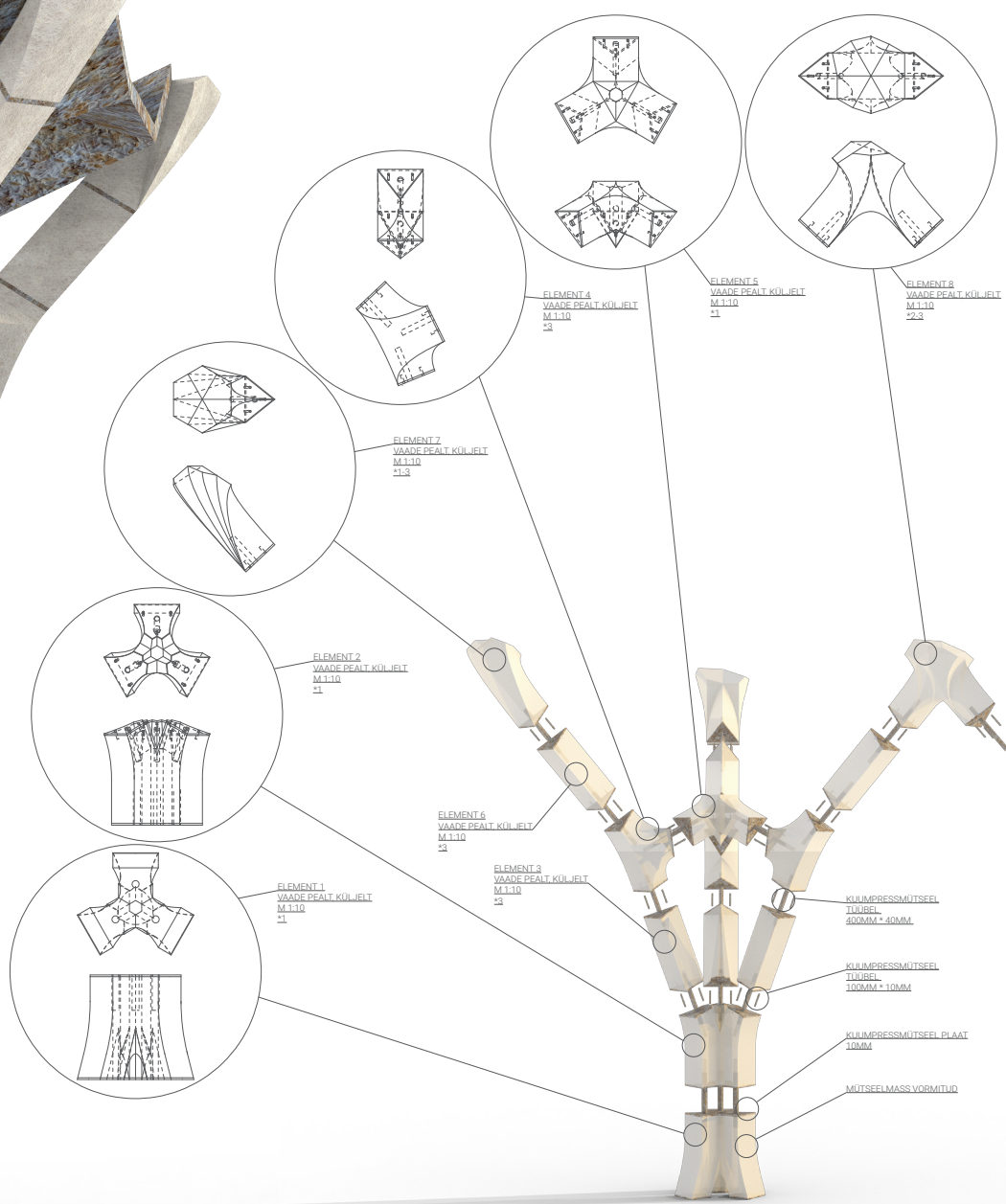
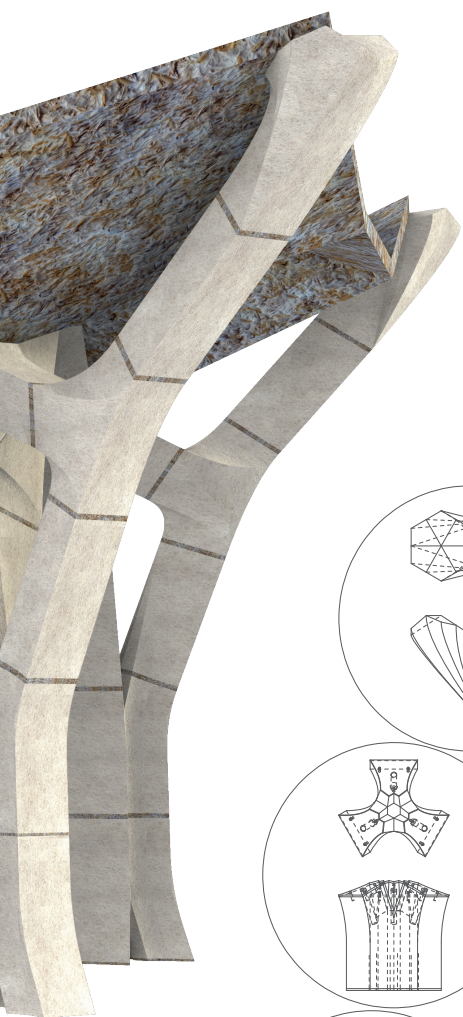
JUHENDAJA(D) / TUTOR(S):
LIINA-LIIS PIHU, MALLE JÜRGENSON, ANNI KO-
TOV

2019



Antud projekt on mu uurimuse (mütseeli põhiste materjalide arhitektuursed kasutusvõimalused) kulminatsioon. Nähes vajadust jätkusuutlikele ajutiste rajatiste alternatiividele on see paviljoni stiilis varjualune kavandatud vaid mütseelosadega. Tänu sellele on tulemus märksa energiasäästlikum ja kergemini lagundatav kui enamused analoogsed tooted.

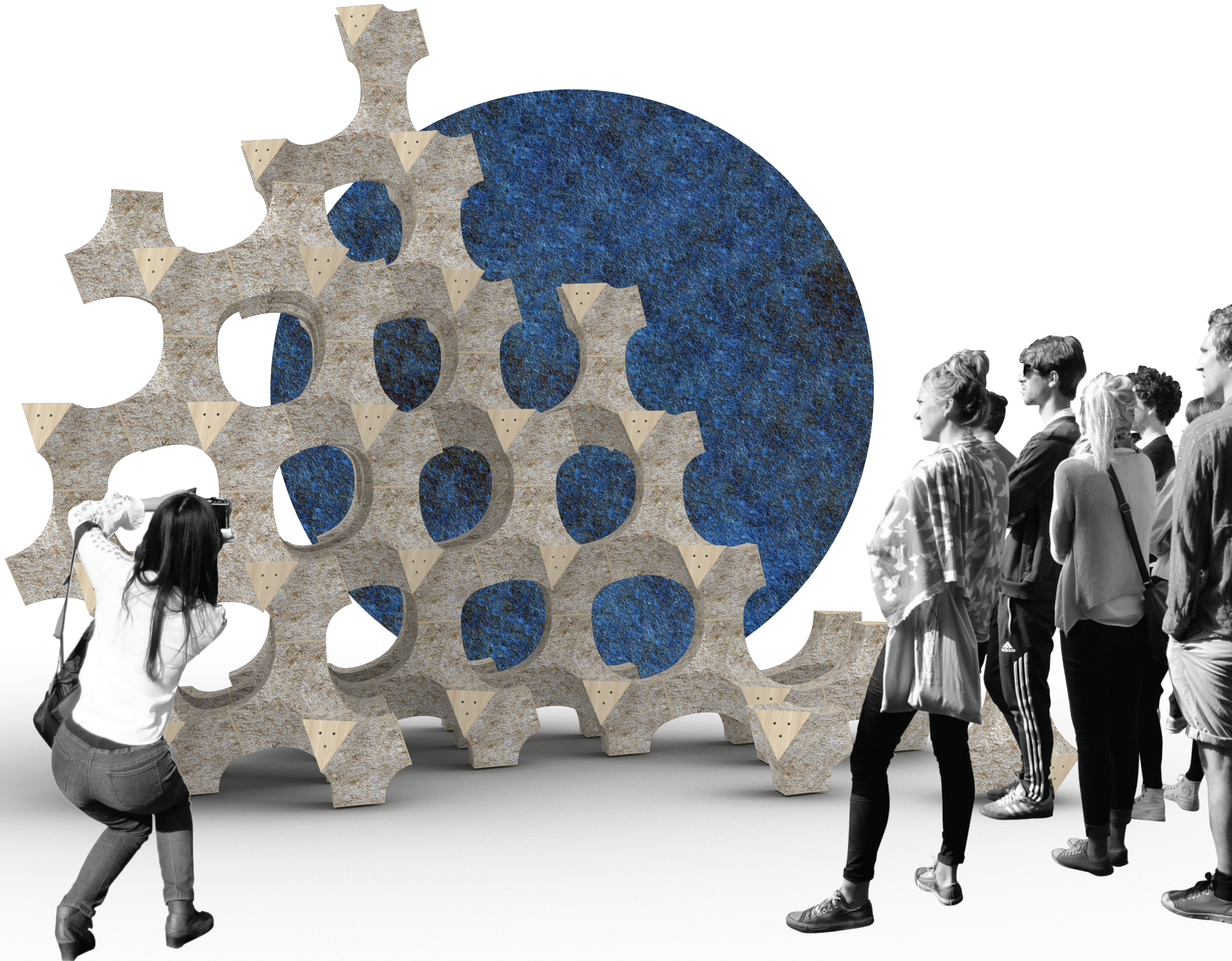
This project is a culmination of research into possible architectural uses of mycelium based materials. Seeing the need for more sustainable alternatives for temporary constructions, this pavilion styled shelter is made with mycelium parts only, making it more energy reserving and more easily compostable than most eco-friendly counterparts.



Mükovaht / *Mycofoam*

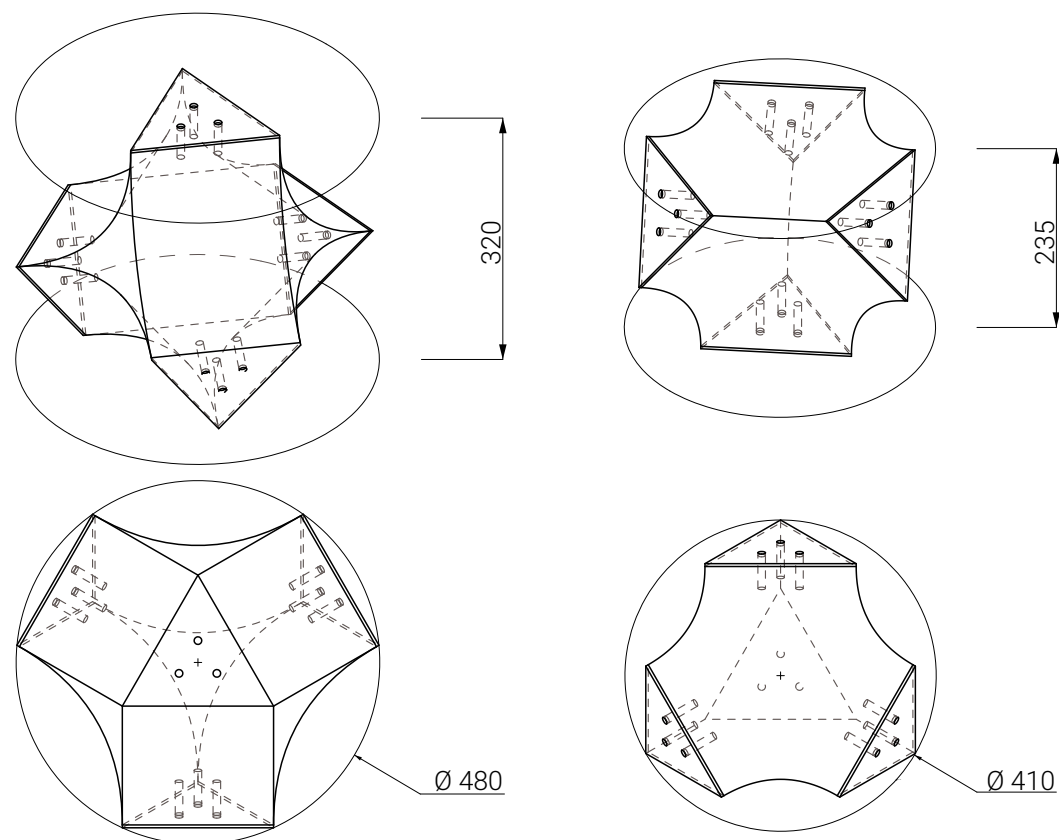
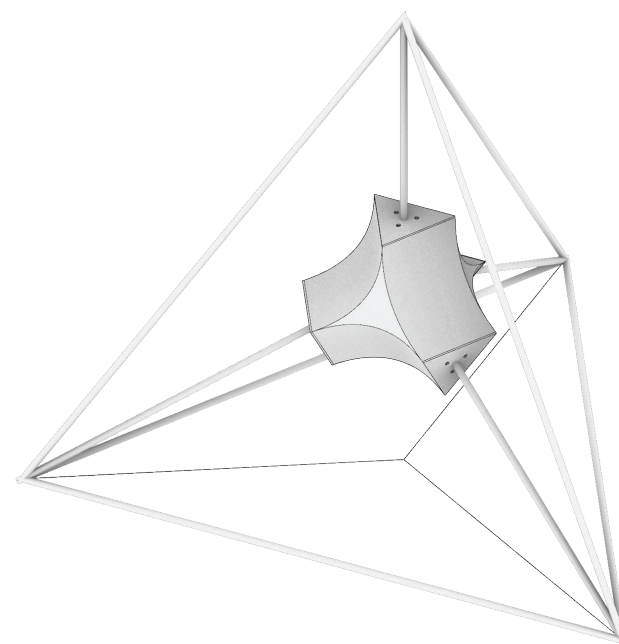
AUTOR(ID) / AUTHOR(S):
SANDER JOOSEP SIIGUR

2020



Ideeprojekt 27-nda
Arhitektide Maailmakongressi
installatsioonivõistluseks.
Mükovaht on vahu taoline
kolmeteljeliselt
sümmeetrilistest
mütseelosadest koosnev
struktuur. Koosnedes kahest
erinevast elemendist on
struktuuri võimalik lõpmatult
jätkata, olles piiratud vaid
oma massist. Elementide kaal
on maksimaalselt hajutatud
kasutades 120 kraadil
põhinevat geometriat.

An idea-project for the 27th
World Congress of Architects
installation competition.
Mycofoam is a foam-
like structure of triaxially
symmetric mycelium parts.
A total of two opposite
elements allow creating
a potentially endless structure,
limited only by its mass.
The weight of the elements
is dispersed most efficiently
using geometry based
on 120 degrees, just like
bubble foam in nature.



Mükokaar / *Arc De Mycélium*

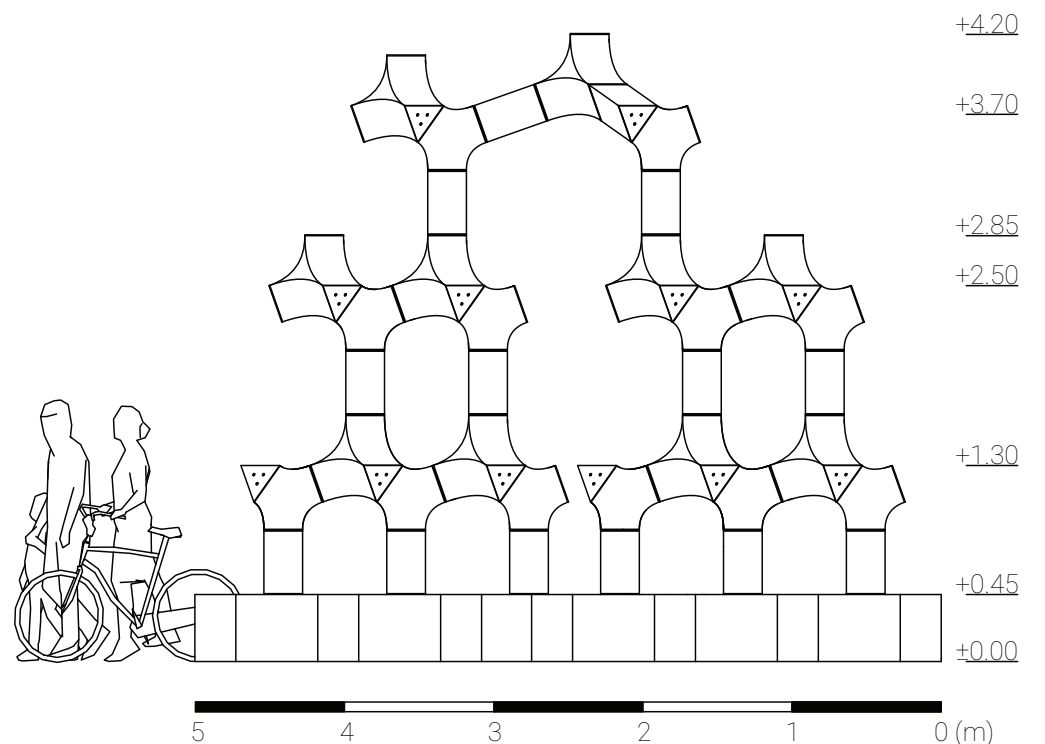
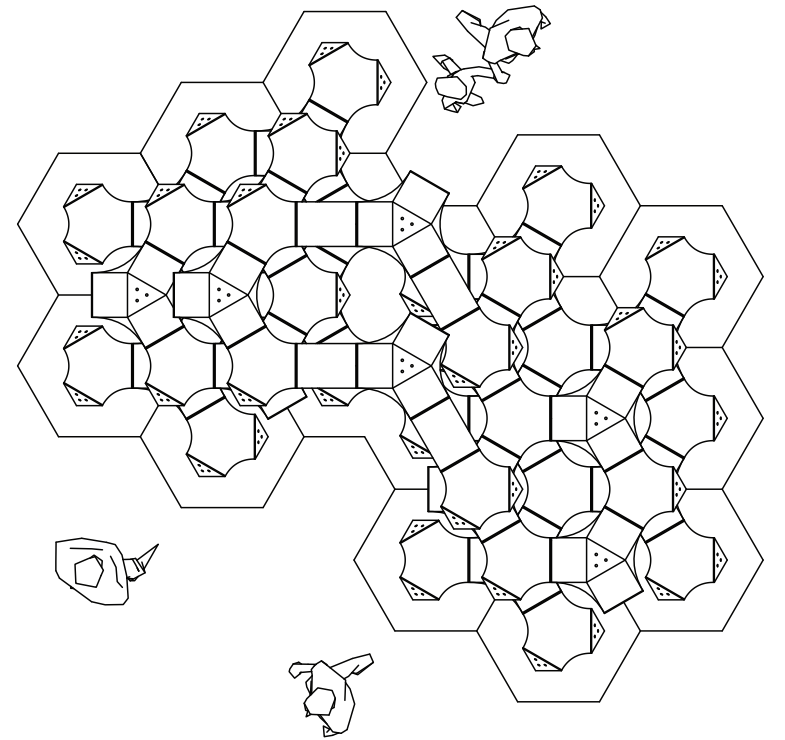
AUTOR(ID) / AUTHOR(S):
SANDER JOOSEP SIIGUR

PREEMIA(D) / AWARD(S):
ERALDI ESILE TOODUD / SPECIAL MENTION
2020

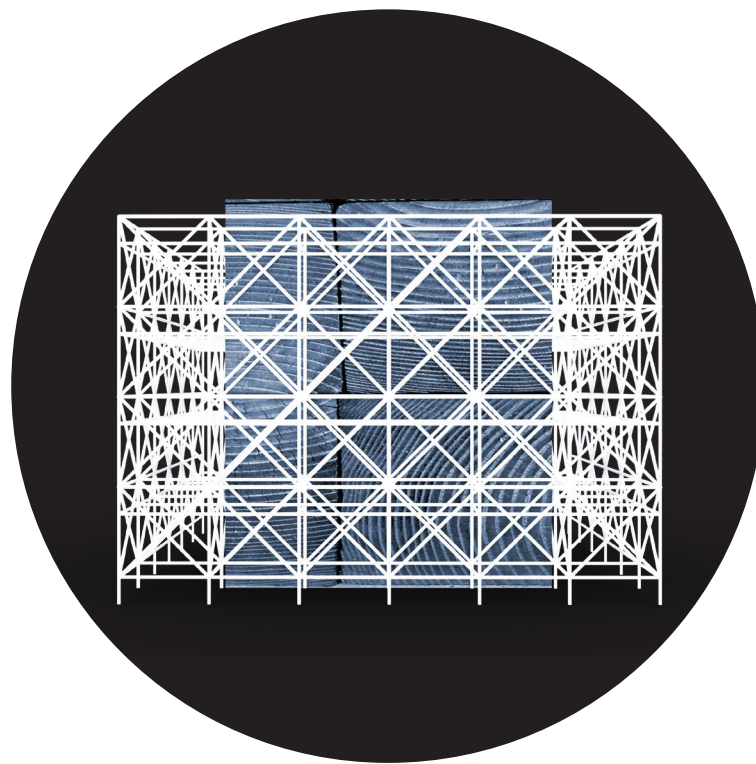


Mükokaar oli ideeprojekt Eesti Loodusloomuuseumi installatsioonivõistluse tarbeks, kus see sai ka eraldi esile toodud oma innovatiivse materjalikasutuse poolest. Konseptsiooni puhul tuginesin oma varajasemaatele töödele, kuid saades ka inspiratsiooni Rooma triumfikaartest. Lõplik teos sümboliseerib lootusrikkalt algava keskkonnarevolutsiooni triumfikäiku.

Arc De Mycélium was an idea-project for the installation competition of the Estonian Museum of Nature, receiving a special mention for its innovative material use. For its concept I used my earlier work as a base, getting more inspiration from Roman triumphal arches. I intended the final piece to stand as a triumphant sculpture for the environmental revolution that we're starting to witness.



Teostatud *Executed*



Mitte miski pole arhitektuuris nii õpetlik kui oma valmis ehitatud projekti nägemine, seda eriti juhul, kui oled seda ise ehitanud. Olgugi, et esialgse bürokraatia ja ehitusprobleemidega otseselt kokku puutumine võib olla hirmutav, on see ka tohutult arendav, eriti noore tudengi puhul.

Nothing in architecture provides as important of a lesson as getting your project built, not only built but building it yourself. Being involved in the struggle of getting the project confirmed and realized can be disheartening and even outright frightening, but it can also super boost your development, especially as a young student.

Vaatlustorn „Trepp” / *Observation Tower “Trepp”*

AUTOR(ID) / AUTHOR(S):
GRUPI PROJEKT / GROUP PROJECT

JUHENDAJA(D) / TUTOR(S):
B210 ARCHITECTS, AVO TRAGEL,
TARMO TAMMEKIVI

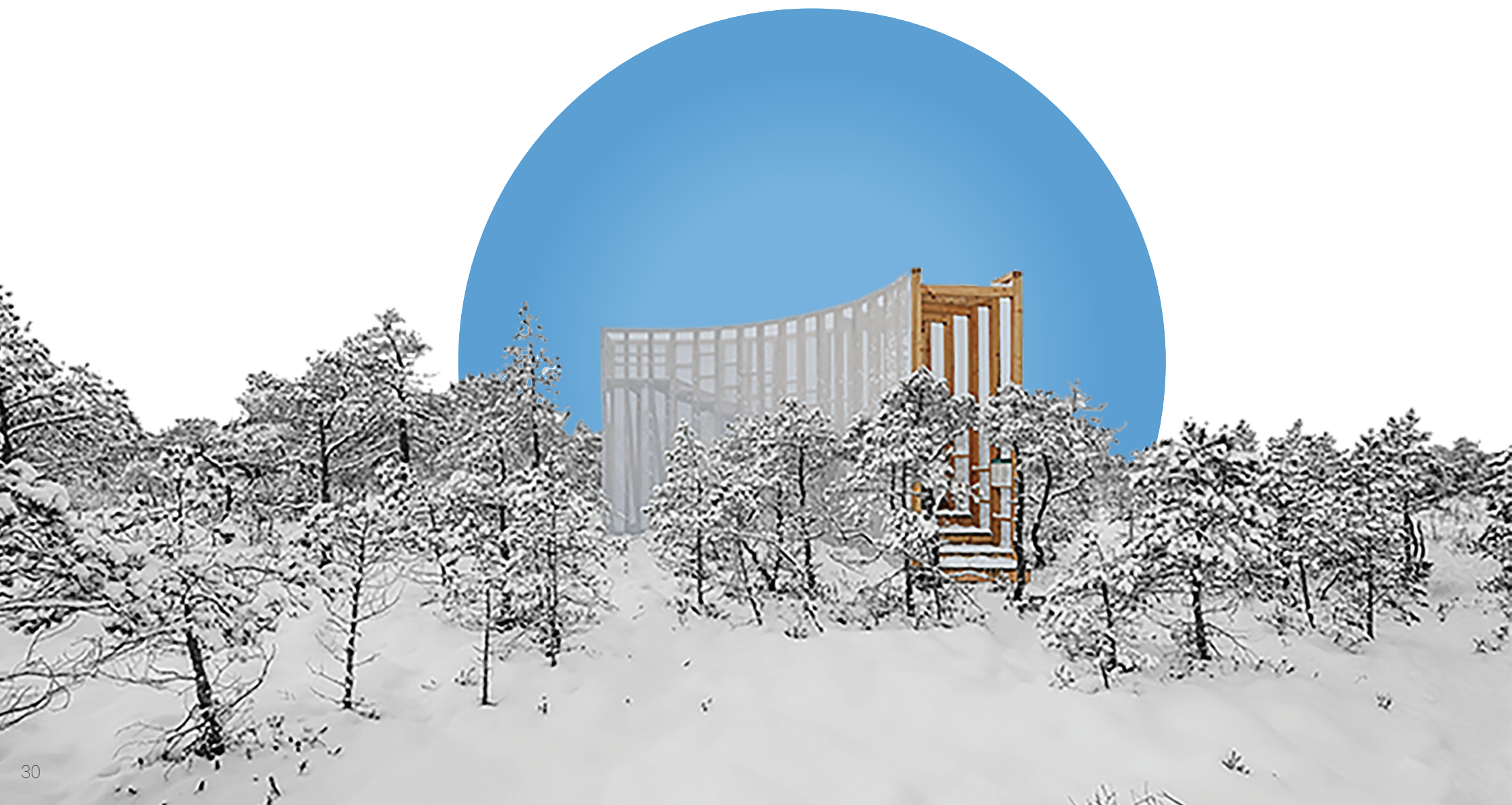
TELLIJA / CLIENT:
RIIGIMETSA MAJANDAMISE KESKUS /
STATE FOREST MANAGEMENT CENTRE

ASUKOHT / LOCATION:
TUHU RABA, PÄRNUMAA /
TUHU BOG, PÄRNUMAA, ESTONIA

FOTO(D) / PHOTO(S):
TÕNU TUNNEL

PUBLIKATSIOON(ID) / PUBLICATION(S):
DESIGNBOOM 17.03.2018

2017

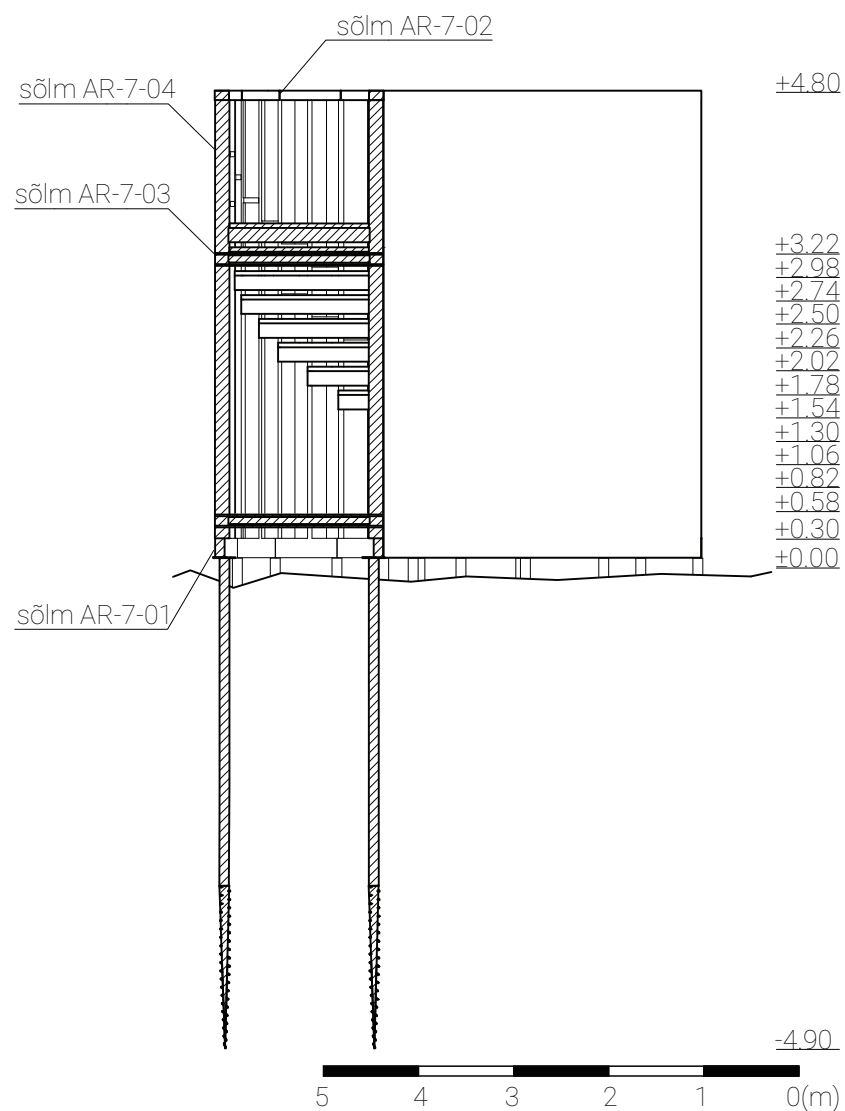
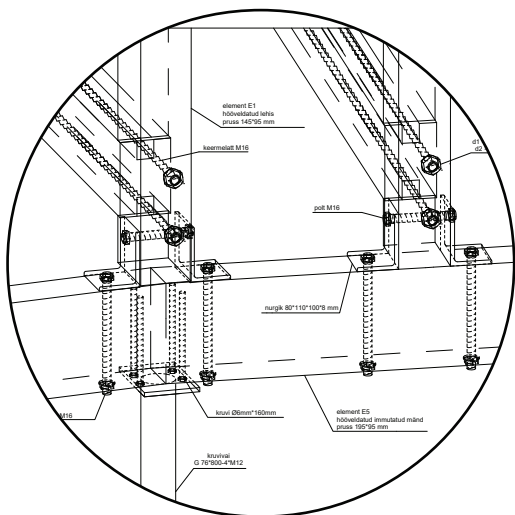
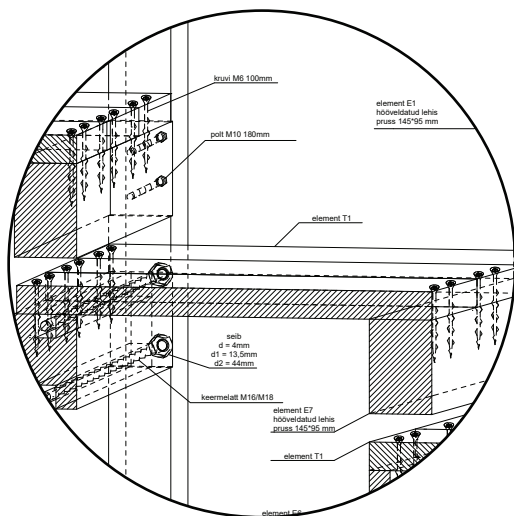
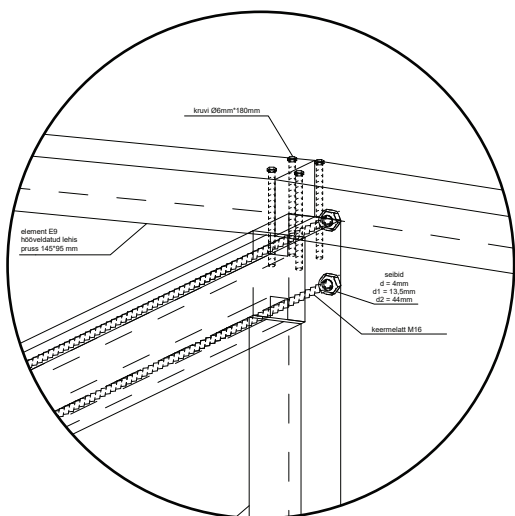


Selle projekti puhul oli minu rolliks osaleda lõplikus disainiprotsessis, koostada detaili- ja tööjoonised ning osaliselt juhendada ehitusprotsessi.

„Trep” on veerandringjas puitehitis, koosnedes avatud koridorist, spiraaltrepist ja vaateplatvormist. Kaetud poolläbipaistva kangaga, mis arjab külastaja vaadet, tekitades ootusärevust, kuni avaneb piiritu pilt üle terve rabamaastiku. Kangas toimib ka kui ekraan, peegeldades ümbritsevaid valgusolusid - loovvat päikest ja täiskuud, sombust pilvemassiivi ja karge lumekatet - muutes selle osaks kas taevast või maast.

For this project, my role was to take part in the finalization of the design, to construct the detail and construction schematics, and to partially guide the building process.

“Trep” is a quarter-rounded wooden building, comprised of an open corridor, a spiral staircase, and an observation deck. Covered in a semi-transparent fabric, which limits the visitor’s view as they move up the stairs — amplifying the anticipation of the final, unobscured vastness they journeyed to find at the top. The fabric also performs as a screen for the light show, - catching the sunsets and full moons - characteristic to the flat nordic landscape and visible from far away.



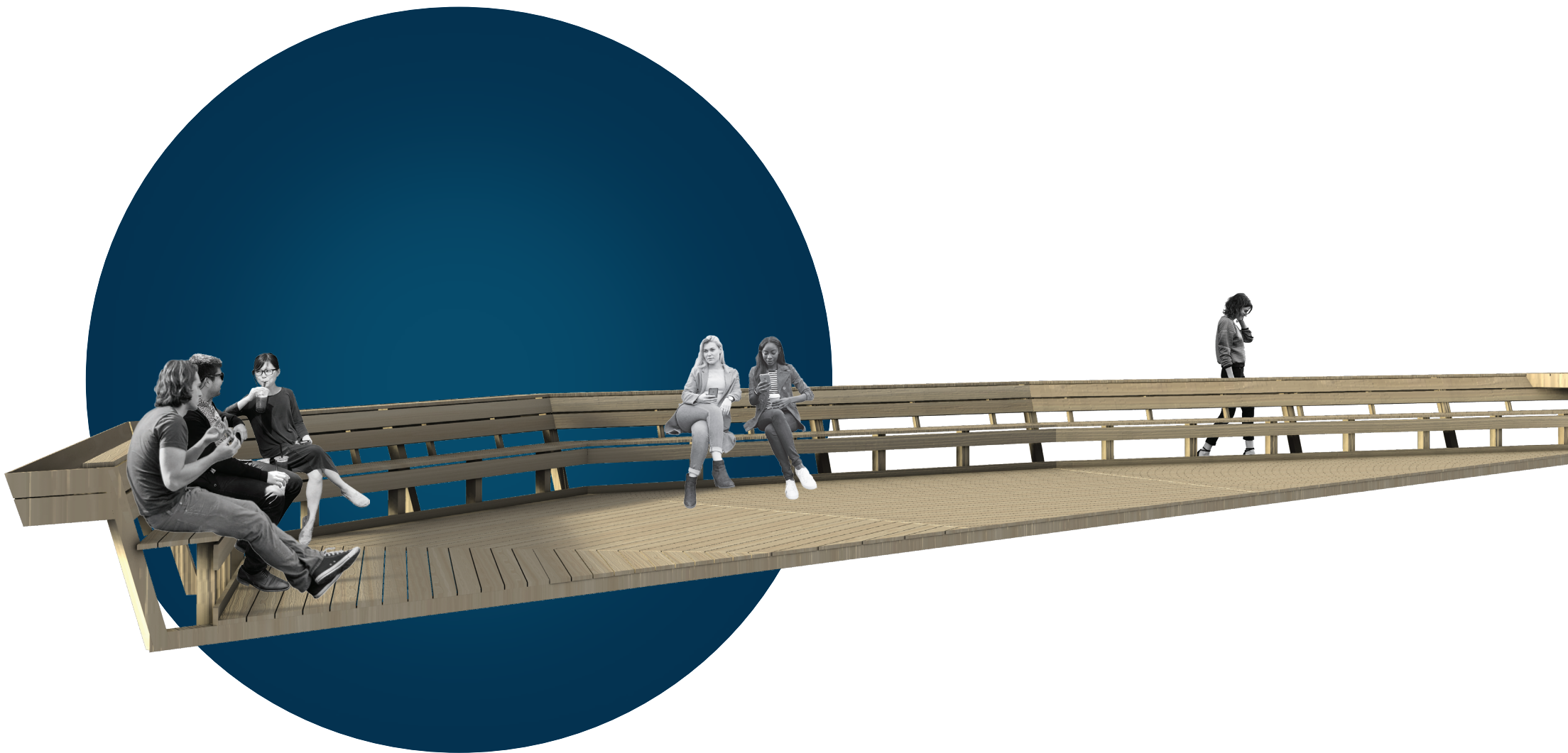
Nāganaga Terrass / *Nāganaga Terrace*

AUTOR(ID) / AUTHOR(S):
SANDER JOOSEP SIIGUR

TELLIJA / CLIENT:
RESTORAN NĀGANAGA /
RESTAURANT NĀGANAGA

ASUKOHT / LOCATION:
TALLINNA VANALINN /
TALLINN OLDTOWN, ESTONIA

2017

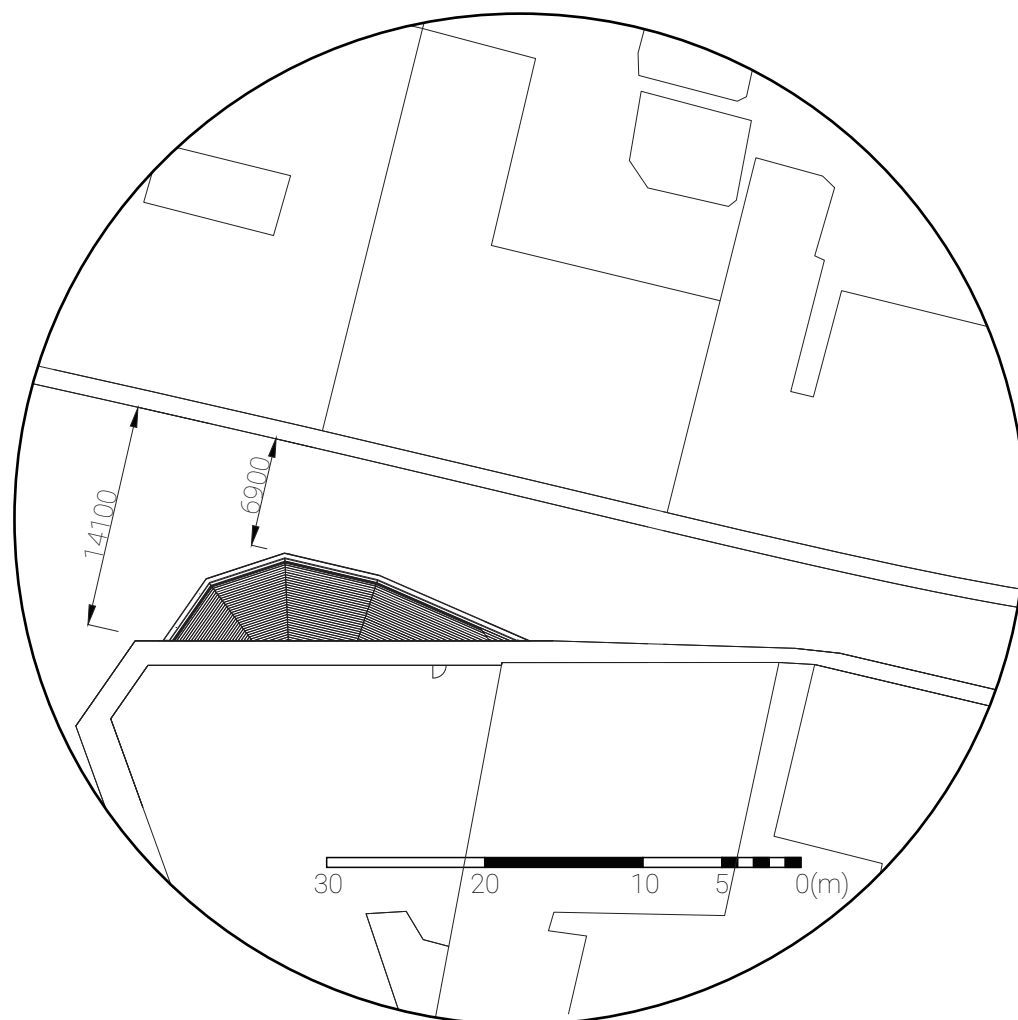


Selle projekti puhul pidin tihedat koostööd tegema Muinsuskaitseametiga, et saaksid järgitud kõik Tallinna Vanalinna miljööd kaitsvad regulatsioonid ja piirangud.

Nâganâga suveterrass on üks omanäolisemaid terrasse vanalinna piirkonnas. Selle vorm jälgib übritsevat keskkonda, kitsenedes koos tänavaga ja suubudes restorani sissepääsu juurde. Üks suuri eesmärke selle kujundamisel oli öelda lahti tavapärasest kastjast terrassi tüpoloogiast.

For this specific project, I had to closely consult with the National Heritage Board, as the Tallinn Oldtown is a UNESCO site and thus has strict restrictions and regulations to protect its milieu.

The Nâganâga summer terrace is one of the more unique terraces in the Tallinn Oldtown region. Its shape follows the specific properties of the location, flowing towards the entrance of the restaurant as the street narrows, renouncing the customary box typology of public terraces.



Ujuv Ristimiskabel / *Floating Baptism Chapel*

AUTOR(ID) / AUTHOR(S):
GRUPI PROJEKT / GROUP PROJECT

JUHENDAJA(D) / TUTOR(S):
PROF. HANNES PRAKS, SAMI RINTALA

TELLIJA / CLIENT:
EESTI APOSTLIK-ÕIGEUSU KIRIK /
ORTHODOX CHURCH OF ESTONIA

ASUKOHT / LOCATION:
TARTU LODJAKODA, EESTI /
TARTU SHIPYARD, ESTONIA

2017



Väidetavalt esimene ujuv ristimiskabel maailmas, tehtud Tartu Pühade Aleksandrite Kogudusele. Õigeuskirik on kurikuulsalt konservatiivne, seega pidi iga detail olema õigustatud traditsioonilise sümbolika poolt. Alustades hoone vormiga ja lõpetades ristimisaugu asetusega.

Me ehitasime selle kabeli kasutades arhailiseid ehitusvõtteid. Me ei teinud täpseid jooniseid, vaid märkisime maapinnale tähised, kasutades esimest raami šabloonina teiste jaoks.

Allegedly the worlds' first floating baptism chapel. It was made for The Tartu Orthodox Church of The Holy Alexander. The Orthodox Church is notoriously conservative in its traditions, thus every detail of the building had to be justified and derived from the symbolism of The Orthodox tradition. Starting from the overall form of the building to the positioning of the baptism hole.

We built the chappel following archaic construction traditions. We had no precise drawing, instead, we made markers on the ground, using one frame as a stencil for the next.



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