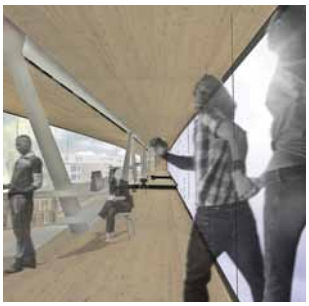
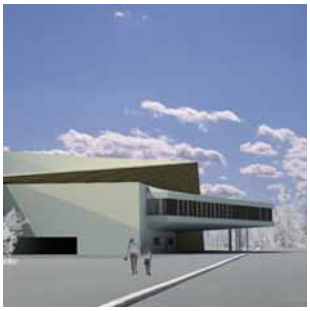
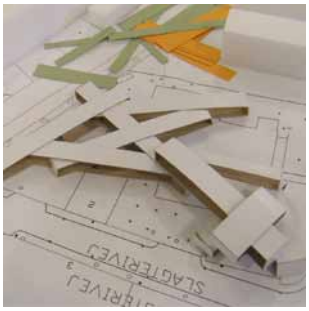
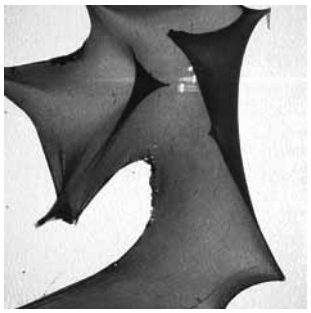
# cv + worksamples
## mats thomassen

**Brief**

**#** *Architect, currently finishing a Master of Science in Engineering in Management in the Building Industry, writing a paper on collaboration in BIM.*
**#** *Been practicing as an Architect and Site Manager.*
**#** *Solid skills within the use of digital software, for conceptual and design usage.*
**#** *Great understanding of constructions ability within the use of different materials.*


contact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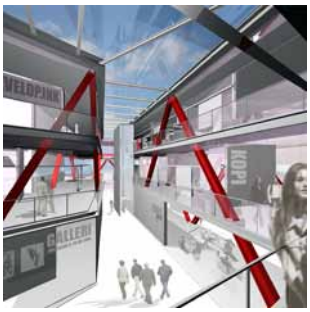
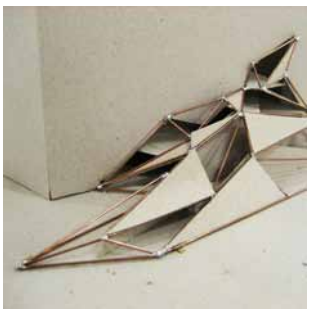
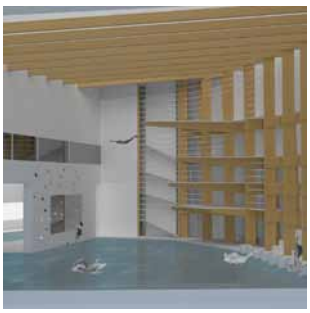
|---|---|
| full name// | Thomassen, Mats |
| date of birth// | 7. January 1983 |
| place of birth// | Oslo, Norway |
| nationality// | Norwegian |
| adress// | Nordborggade 13, 1.th.<br>8000 Århus<br>Denmark |
| phone// | +45 60 65 00 92 |
| e-mail// | mt@twotimest.com |





## work experience

**# Assistant for Engsoe Vest,** Aarhus, Denmark, www.engsoe.dk
(Office work related to planning & management)

**# Site manager for JP&C,** Vejle, Denmark, www.jp-co.dk
Project: School of Niels Ebbesen, Skanderborg (renovation)
August 2010 - January 2011, (planning & management)

# **Architect at Stuff ApS,** Aarhus, Denmark, www.stuffaps.dk
January 2009 - June 2009, (design, illustrations, detailing, production)

# **Internship at Stuff ApS, Aarhus,** Denmark, www.stuffaps.dk
February 2007 - June 2007, (design, modelmaking, illustrations, detailing)

**# Since the age of 13, I have been active in the job market.**

## education

# **Master of Science in Engineering in Management in the Building Industry (Cand. Scient. Techn.),**
Industry and Global Business Development, Aalborg University, Denmark, www.industri.aau.dk
2009-(in progress)

# **Master of Science in Architecture (Cand. Polyt. Arch.),**
Architecture & Design, Aalborg University, Denmark, www.aod.aau.dk
2006-2008

# **Equivalent to Bachelor in science of Architecture,**

## references

**Claus Bonderup**
AALBORG UNIVERSITY
Architect, Professor
bonderup@aod.aau.dk
cell// +45 21670428
(recomendation shown upon request)

**Poul Henning Kirkegaard**
AALBORG UNIVERSITY
Associate Professor
phk@civil.aau.dk
cell// +45 24633279
(recomendation shown upon request)

**Jesper Finderup**
DAN-CON A/S
Co-owner and Project Manager
jfi@dan-con.dk
cell// +45 2272 7482

**Frank Jensen**
JØRGEN PETERSEN & CO
Site Manager
fje@jp-co.dk
cell// +45 60391443
(recomendation shown upon request)

## completed competitions

**# Arcs & Aces,** tennis arena in Södra, Sweeden. Open design competition 2009. (individual)
**# Vattentäkten,** bathhouse in Ängelholm, Sweeden. Open design competition 2008. (individual)
**# Den Levende Bro,** sceene and shelter for waterwheel, Lørenskog, Norway. Open design competition 2008. (individual)

## exhibitions

**# Louisiana Museum of Modern Art,** Treehouse displays at · LIVING Frontiers of Architecture III and IV, 2011.
Exhibition is currently running until October 2011.

## attended projects

**# Henrik & Anitas House,** 200 sqm villa in Højbjerg, Denmark. (Stuff ApS)
**# Fryndesholmhallen,** extension & renovation of sports arena in Fynshav, Denmark. (Stuff ApS)
**# Tommerup hallerne,** extension & renovation of sports arena in Tommerup, Denmark. (Stuff ApS)
**# 2 x Housing project,** Sandnes, Norway**.** (consultant at Archibot)

## house designs

**# Extension to private house,** Harlev, Denmark 2010, design.
**# Expansion of appartment,** Oslo, Norway 2010, design & authority plans.
**# Extension to private house,** Silkeborg, Denmark 2009, design & authority plans.

## selected semester projects

# **Diving Centre**, thesis, a scuba diving facility in Hvaler, Norway. (individual)
# **Treehouse,** wooden cabin project in top of a tree. (individual)
# **Church,** public church in the new region Orestad, Denmark. (team)
# **Office complex,** promotes networking and communication between companies, Norresundby, Denmark. (team)
# **Oplevelsesmaskine** (landscape exhibition), profound human perception through architecture, Aalbaek, Denmark. (team)

## study trips

# Athen (Greece)
# Valencia (Spain)
# Rotterdam and Amsterdam (Netherlands)
# Vitra, Weil am Rhein (Germany), Basel (Switzerland), Venezia, Verona and Milano (Italy)
# Oslo (Norway), Stockholm (Sweeden), Oulu,Turkü and Helsinki (Finland)
# Berlin (Germany)
# Köln (Germany)

## software

# Revit Architecture
# Rhinoceros
# AutoCad
# 3ds Max
# V-ray
# Adobe Illustrator
# Adobe InDesign
# Adobe Photoshop
# Adobe Dreamweaver
# StaadPro

## language skills

# Norwegian
# English
# Danish
# German (basic)

## I have

...great skills within the use of computer software programs

...knowledge about Building Information Modelling (BIM) processes and optimal collaboration

...experience from design and constructions leadership

...knowledge about construction and material capabilities

...skills in combining fundamental theories with mathematical calculations and computer analysis

...the interest for energy efficient design solutions

...efficient learning skills, for gaining knowledge and competences quickly

...the love for creating architecture, big challenges excites me

## I am

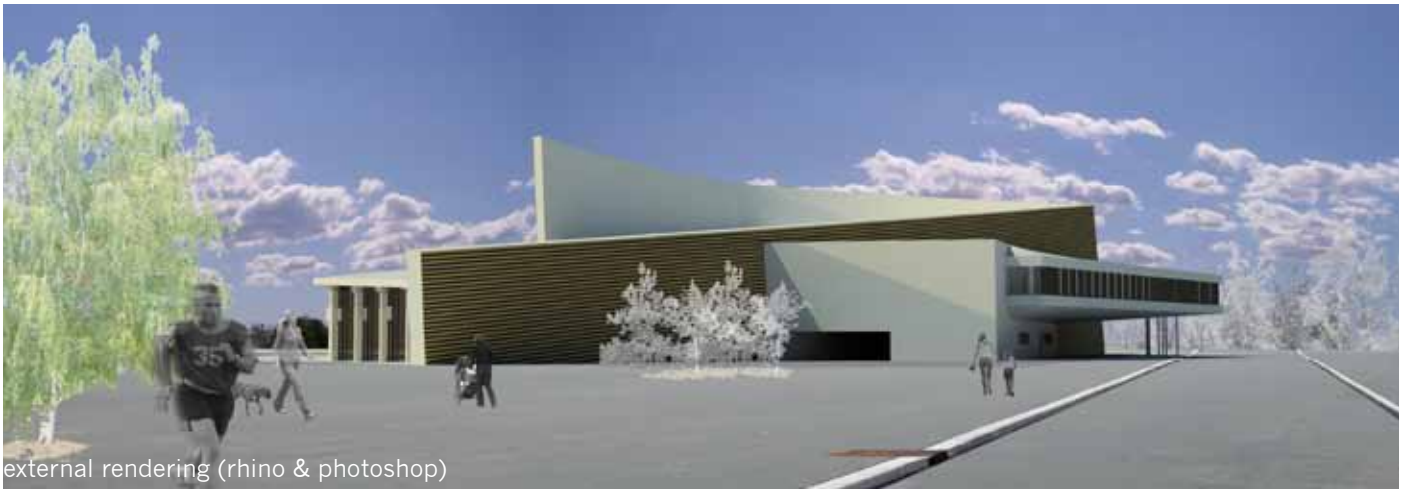
...great at combining diagrams, sketches models and software when creating architecture

...quick with my decision makings

...a team player, surrounded with great atmosphere which keeps the spirit

...enjoying experimentation with new methods and concepts

...positive for everything to be done, as long as I work hard enough



external rendering (rhino & photoshop)

## Vattentäkten · competition

main design parameters · indoor climate & natural ventilation

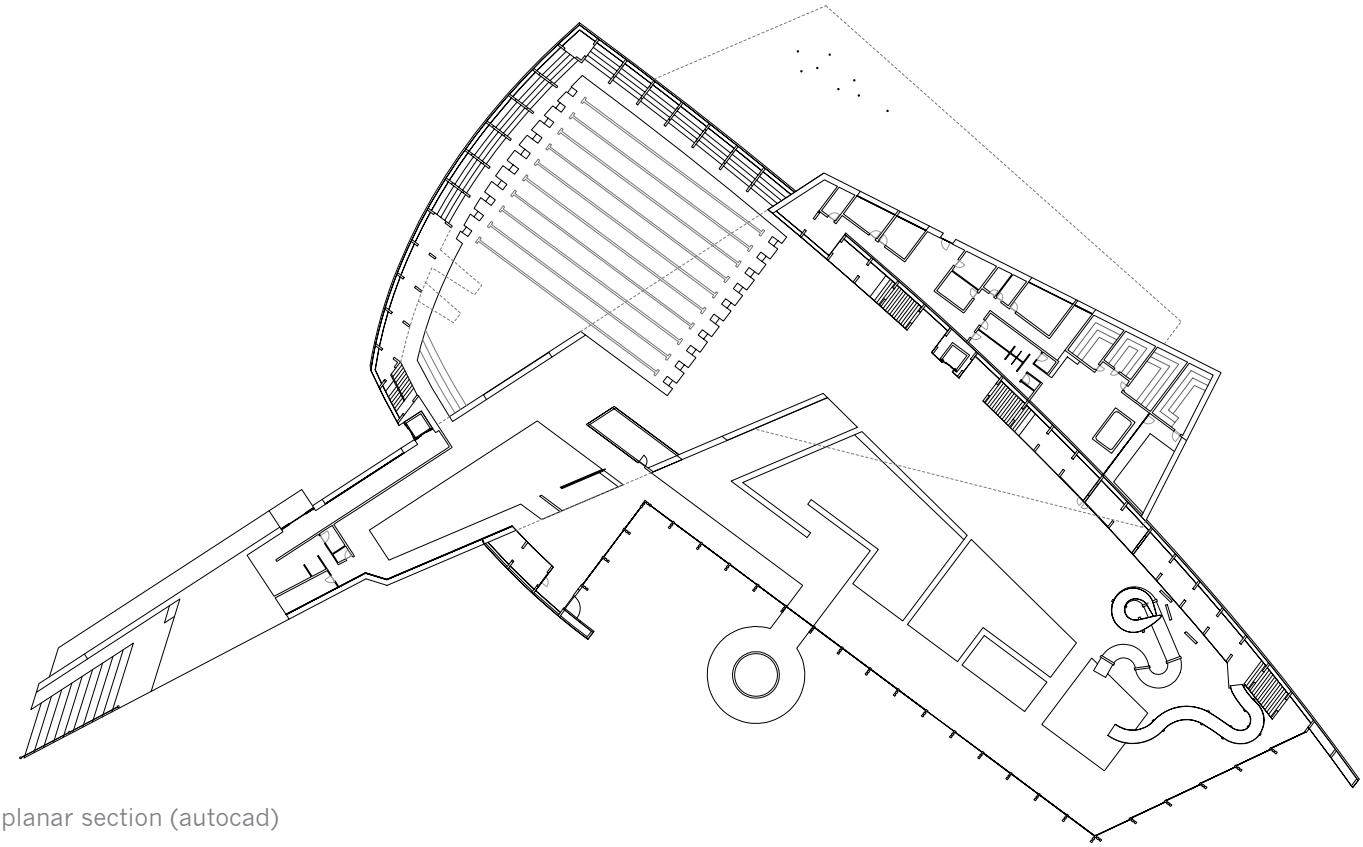
The bathhouse aims to utilize the sun for heat generation in the south facing family section; lanes, springboards and diving platforms are located in the north side to avoid direct reflections from the sunlight. Air is ventilated through the highest points in the north facade, leading the heated air through the different sections of the building.

Internal heights are limited to what is practically needed in the different sections by tilting the roof in the south/east direction; if wanted it could incorporate sun panels. To further reduce the internal 'wasted' volume a foyer/wardrobe breaks through the building at the second floor, also creating a visual separation between the different pool areas.

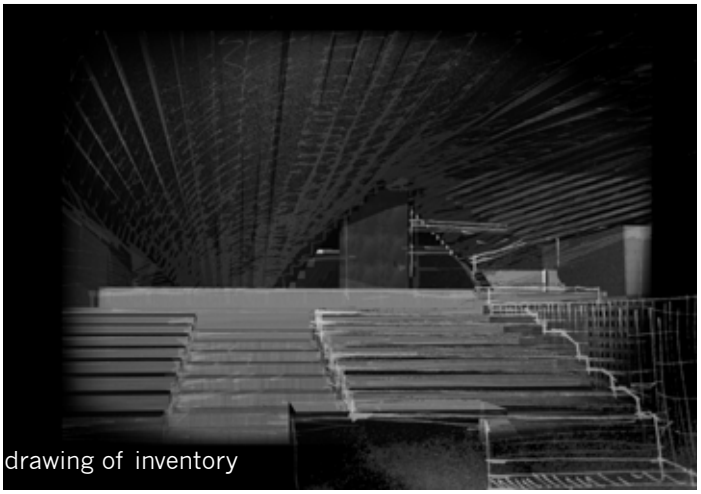
Wood is a local resource and therefore chosen as the main construction material, presenting the active areas of the swim hall. As another local resource, slate is chosen to represent the more quite and functional activities for the building, stabilizing and contrasting the wooden construction.

birdsview (rhino, illustator&photoshop)

internal rendering (rhino&photoshop)

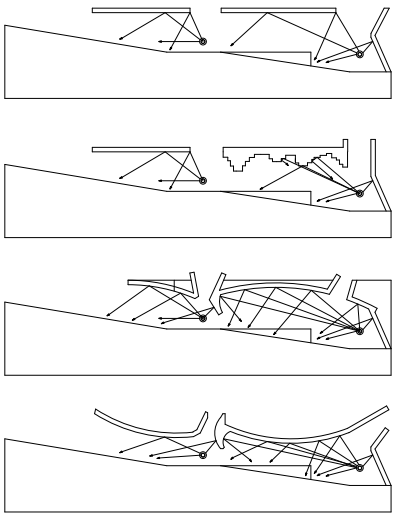


planar section (autocad)



drawing of inventory


modelphoto of inventory



sound reflection diagrams

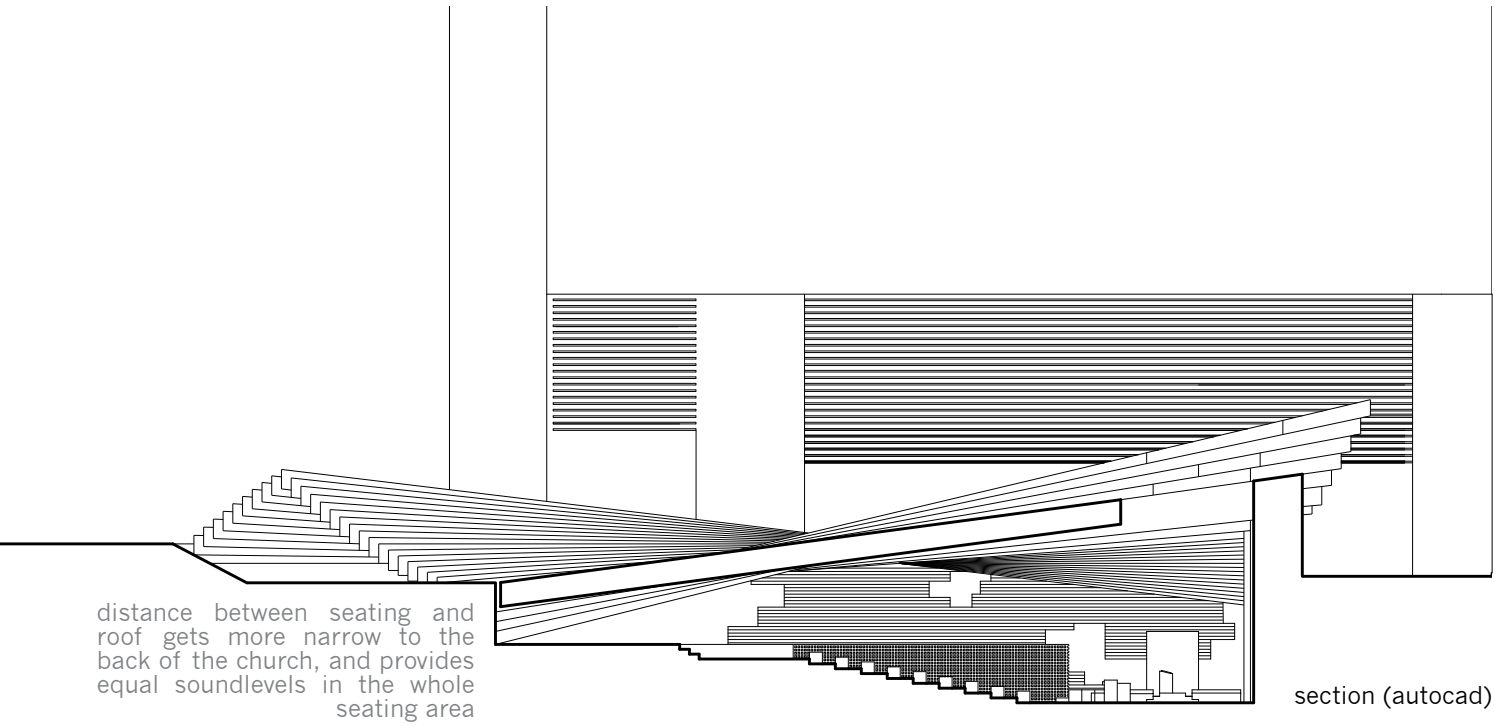
# Church in Orestaden, Copenhagen · semester project

## main design parameters · acoustics, light & constructional abilities for concrete

Lowering the church underground, the roof transform into a transitional area within the urban areas of Orestaden; it becomes a place to hang around. The shape of the roof is designed to utilize the constructional abilities of concrete to pull of pressure.

The feeling of being under the surface was aimed to be kept, the necessity of achieving the right reverberation time, caused for innovative use of hard materials like concrete and bricks. Small penetrations of daylight through the roof create a certain cave like feeling, making the sacral areas stand out as a contrast to the outdoor atmosphere.

Shape and material usage for the church project is analyzed through computer based simulations within construction, sound reflections and absorption. Building volume, surfaces and materials are combined to achieve the right wave reflections and levels of sound in this building.



distance between seating and roof gets more narrow to the back of the church, and provides equal soundlevels in the whole seating area

section (autocad)

model at Louisiana Museum of Modern Art

modelphoto exterior

# Treehouse · semester project

main design parameters · experiential value & constructional abilities for wood

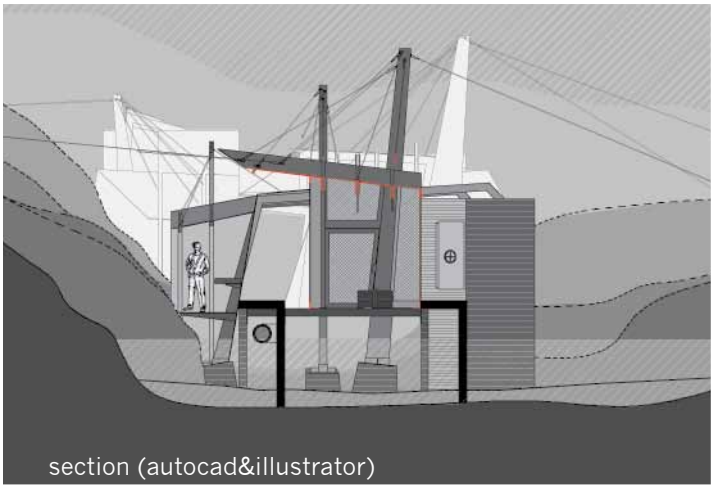
In this project, wood has been challenged to make a fully functional and fascinating structure out from limited material resources. It is designed as a contrast to the daily living, meant to become a private place for escaping and inner reflection.

75x75mm constructional wood is assembled in a structural order with 12mm thred bars, reaching 15 meters into the air. The static construction, combined with 1220x2440mm plywood plates, is what makes the frame for this little cantilevered dwelling.

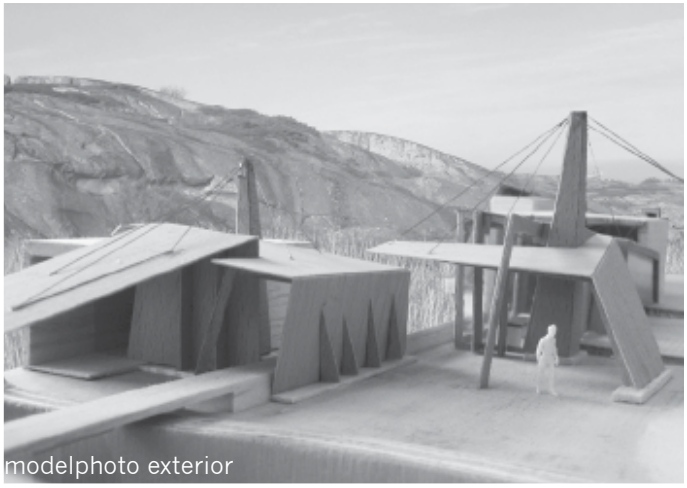
Structural analysis and calculations have been taking part in this project · as well as in most of my projects · helping to create the final shape of construction.

The treehouse will be displayed at the 2011 exhibition LIVING Frontiers of Architecture III and IV, 2011, at Lousiana Museum of Moderen Art.

sections
(autocad&photoshop)



section (autocad&illustrator)



modelphoto exterior

# Scuba centre -semester project

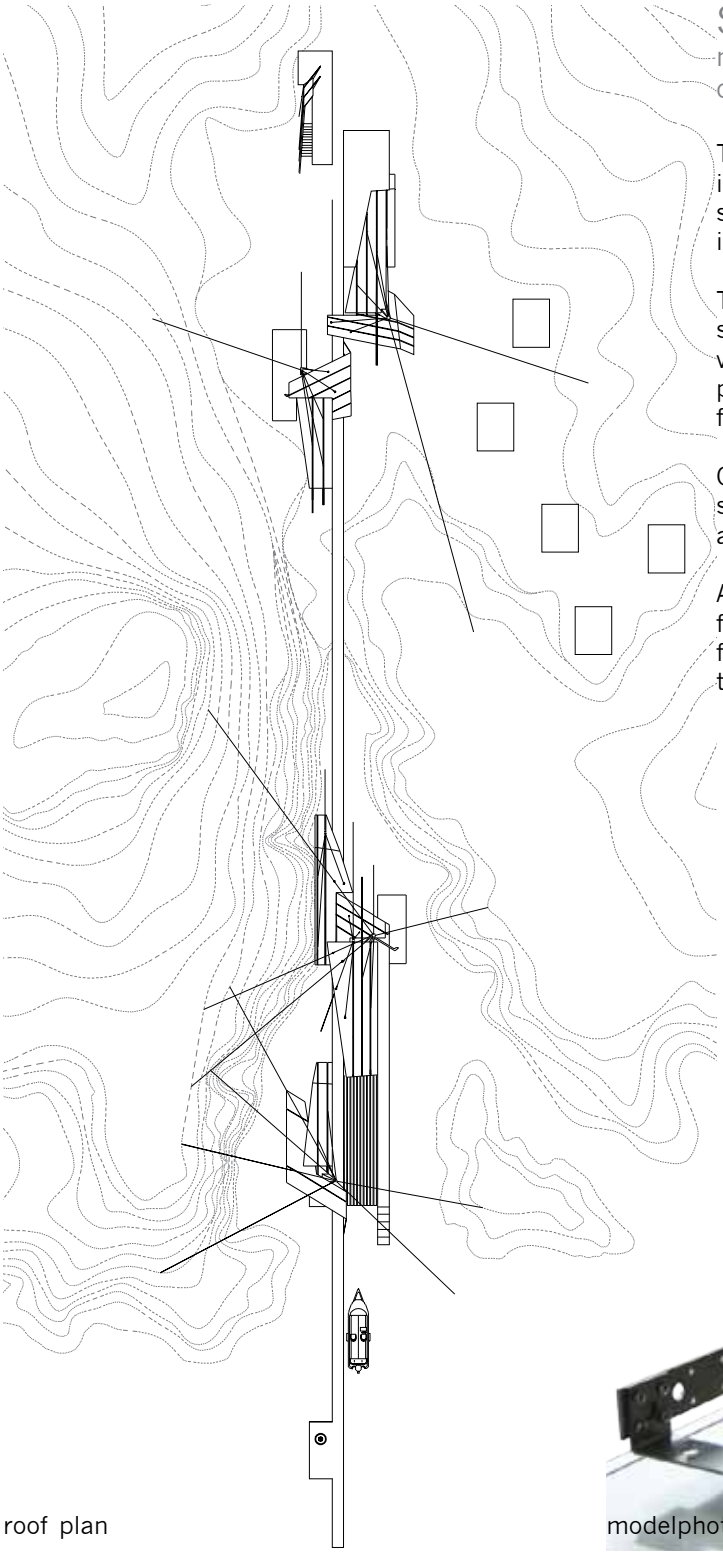
main design parameters - sustainability & constructional abilities for steel

This project focuses on the reuse of materials and minimizing impact on nature. The marine environment, and especially ship wrecks, piers and wharfs have been essential design inspirations through the process.

The weight and strength of concrete is used to provide a solid fundament to the rest of the construction. The concrete volumes and pieces are resting on the sand, this makes it possible to one day, remove the centre without leaving any footprints in the landscape.

Crushed clamshells are used in the concrete production; since concrete is CO2 emissive, its CO2 emission will, during a lifetime, become close to zero.

All steel plates and columns are created by remodeling hulks from scrapped ships. It is more environmentally friendly, and fits the concept of a scuba diving centre; a contribution to the sea and its beautiful forces.



roof plan

modelphoto

external rendering (rhino&photoshop)

internal rendering (rhino&photoshop)


siteplan

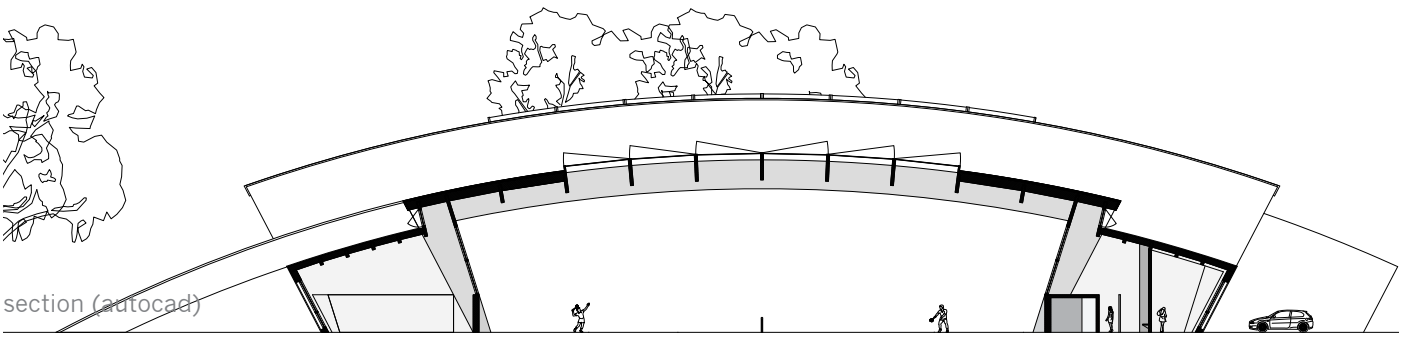
# Arcs & aces - competition

## main design parameters - prefabrication & economy

The aim of the project was to create exciting architecture mainly from sets of prefabricated elements. It is presented with the use of two different prefabrication setups (a small and a bigger one), where they can be combined as shown, or used separately depending on the economy, number of required fields and spatial requirements

The prefabricated wood design of laminated beams and elements are not only supporting the construction, but it also provides for some natural insulation between outdoor/indoor and between the spaces; in combination with a green grass roof the need for additional insulation are minimal.

This tennis arena takes advantage of shape, direction and material usage in the aim for a natural and energy efficient design. Its facades are tilted to reflect the sunlight and provide shading during the summer periods, while generating heat during months when the sun attacks with a lower angle.



section (autocad)