ATLAS OF COASTAL IDENTITY

STRUCTURES AND BUILDINGS
ALONG THE HARBOURLINE OF COPENHAGEN

ORIENTKAJ: A CONTEMPORARY FISH MARKET



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SPATIAL DESIGN 2023 DET KONGELIGE AKADEMI ARKITEKTUR DESIGN KONSERVERING

9	INTRODUCTION
11	PAUSTIAN HOUSE
17	ORIENTKAJ METRO STATION
21	GÖTEBORG PLADS
25	THE METAL FACTORY
31	LA BANCHINA
35	SPANTELOFTET
39	THE GUN BOAT SHEDS
43	TORPEDOHALLEN
47	MASTESKURENE
51	MÆRSEHUSET
55	THE ROYAL OPERA HOUSE
59	THE OPERA PAVILLION
63	THE ROYAL PLAYHOUSE
67	NYHAVN

73	GAMMELHOLM TOLDKAMMER
77	KNIPPELSBRO TOWERS
81	HOLMENS CHURCH
85	GAMMEL STRAND
89	CHRISTIAN IVS BREW HOUSE
93	KALVEBOD WAVES
97	THE SEED SILO
100	IMAGE REFERENCES
104	REFERENCES



INTRODUCTION

The Atlas of Coastal Identity is an analysis of coastal buildings and structures around the harbour and canals of Copenhagen. It has been a method to explore and learn from the different buildings connected to the harbourline, and has been used as a tool to reference within our project.

The intention of the Atlas is to map out buildings that we think have interesting qualities and that are characteristic to the coastal identity of the city. The offset of the study has been to bike and walk around the harbour and canals, as well as taking the harbourbus from north to south to register as many buildings as we wanted.

The book starts in the north of the city and ends in the south. Starting with cases in Nordhavn, then following the harbourbus route, with a few offsets into the smaller canals, before ending all the way south in Sluseholmen.

Each case is represented with a sitemap, technical drawings, a short text and pictures that highlight our point of interest.



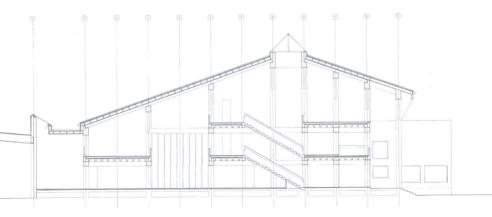
PAUSTIAN HOUSE

1

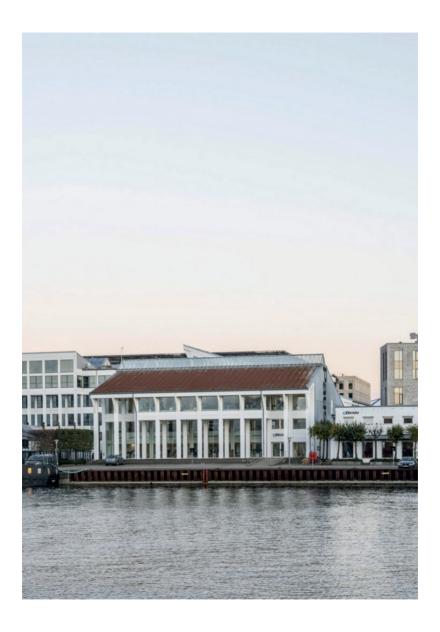
The building, which is located behind our site, contains the showroom of Paustian furniture. The building is designed by Jørn Utzon, and was completed in 1987.

It is standing on the edge of the harbour, with external concrete pillars which gives the building a temple-like appearance. Inside, the tall, white, fan-topped columns stretch up to the ceiling where they are connected by geometrical archways.

Looking at how the building expresses itself with exposed concrete pillars and a withdrawn glass facade which is reflected by the water. As well as the material choices in interior spaces, colored tiles, concrete and wood are comined in single spatial elements.



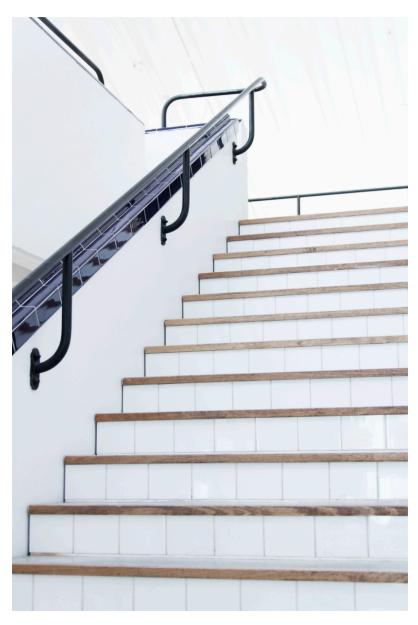
PAUSTIAN HOUSE





PAUSTIAN HOUSE





MATERIAL CHOICES, STAIRCASES CLAD IN WHITE AND BLUE TILES, WOODEN DETAIL, CONCRETE STEPS

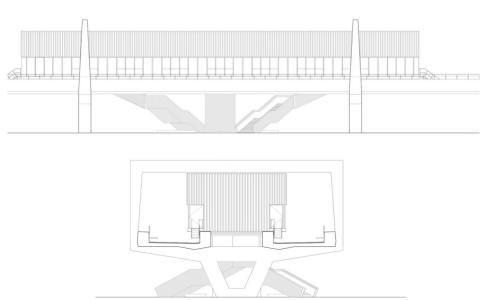


ORIENTKAJ METRO STATION

2

Tracing the outline of a shipping container, the overground Orientkaj Station references the large scale volumes and brutalist features of Nordhavns industrial past. Inside it opens up and reveals more human focused detailing.

Looking at the metro structures ability to be both an alienlooking element but at the same time providing a nod to the industrial past. How it brings a new, but familiar identity to the site. In addition, how the raised volume provides public passage on the ground level.

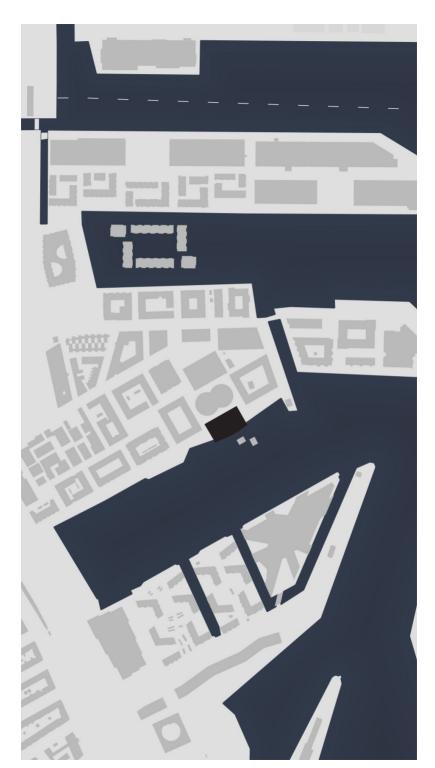


ORIENTKAJ METRO STATION





FIG 8 PHOTO: AUTHORS 17



GÖTEBORG PLADS

3

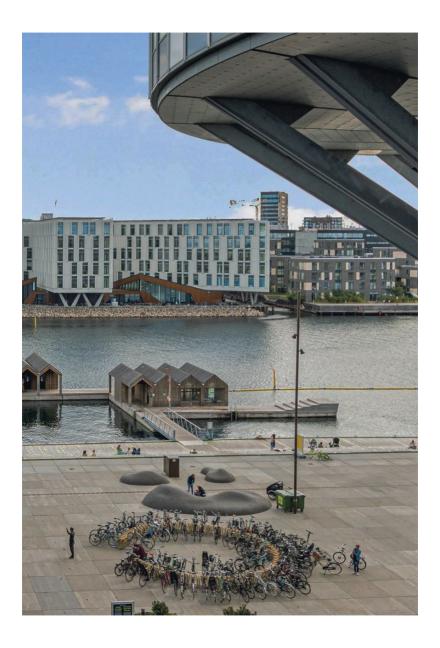
Göteborg plads is a large public plaza in Århusgade neighborhood. The composition is established by a continuous surface of large 2×2 meter concrete tiles.

A series of small hills point to the port's history, as the disembarkation point for piles of cement and gravel, as well as functioning as urban furniture for stay and play. Large evergreen trees and shrubs create shelter, shade and division of space.

Looking at how the square steps down towards the water as well as the surprising elements in the urban interior which references the history of the site.



GÖTEBORG PLADS



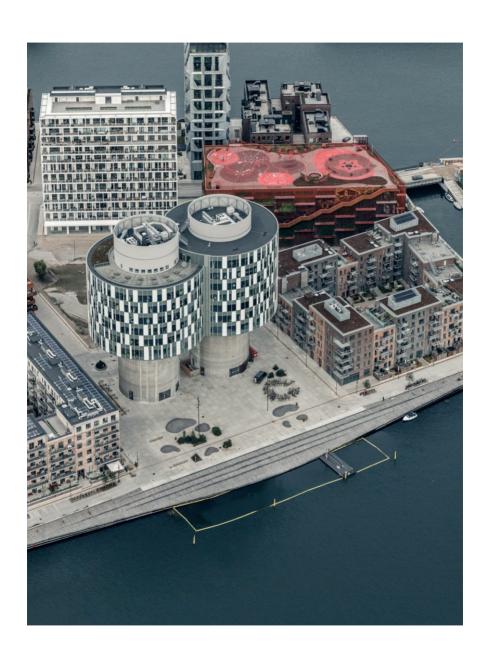


FIG 11 PHOTO: SLETH 21



THE METAL FACTORY

4

Burmeister & Wain shipyard is a former military- and industrial area on Refshaleøen. It was once the largest workplace in Denmark and employed more than 10.000 people. B&W was established in 1843, but after bankruptcies the shipyard closed in 1996.

Part of the shipyard was a warehouse for the metal factory/pladeværkstedet which included Skabelonloftet where full size templates were made in metal, based on the ship drawings. A job that required plenty of space.

Looking at the patchwork of materials and openings of the large rough halls, intented for heavy duty operations.

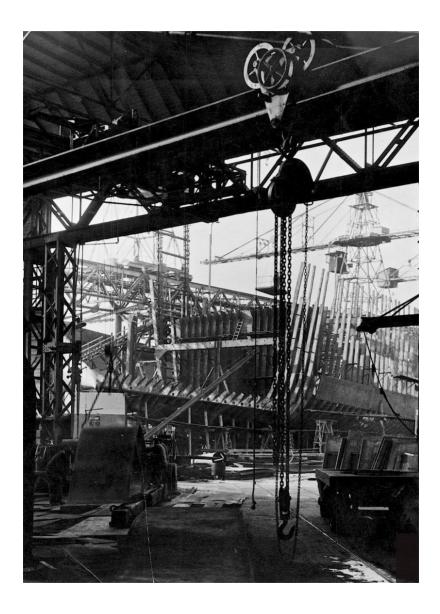


THE METAL FACTORY





THE METAL FACTORY







LA BANCHINA

5

A cafe, restaurant and wine bar in a remarkably small building that was a gatehouse to the old ship yard. The small restaurant provides seating for 16 guests. It is at the land side of one of the large docks, and from the bar there is a view across the harbour to Kastellet, Langelinie Quay and Nordhavn.

There is a small garden area with a sauna, and a mobile quay. The mobile quay invites visitor to enjoy their food and drinks close to the water. The harbour location means it can be approached by boat, bike, the harbour bus and the 9A bus.

Looking at the popular summer hangout and its ability to cerate a seasonal and intimate space in an uncomplicated and small scale. Having a public, but at the same time personal atmosphere.

LA BANCHINA









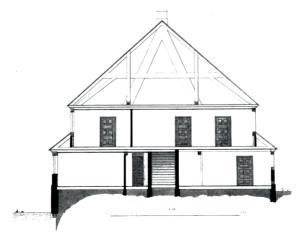
SPANTELOFTET

6

Spanteloftet, a two-storey half-timbered house, built in 1742 as part of the military wharft. When constructed, the building had two different purposes. The bottom floor was a chaloup shed: an open pillared floor with heavy ceiling beams. Here the chaloups hung as they did on board the ships. A chaloup is a rowing boat that was used when rowing from the quay out to the larger unanchored ships.

The upper floor was the coffered ceiling: one large column-free room, where the floor was a "drawing sheet". The frames for large wooden ships were drawn in full size on the floor.

Looking at the playful construction and permeable facade created through niches and passages in close connection to the waterfront.



SPANTELOFTET







FIG 22 PHOTO: AUTHORS

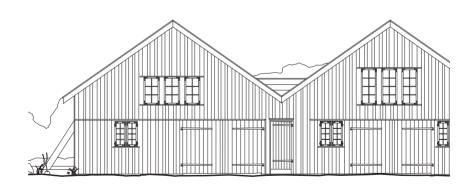


THE GUN BOAT SHEDS

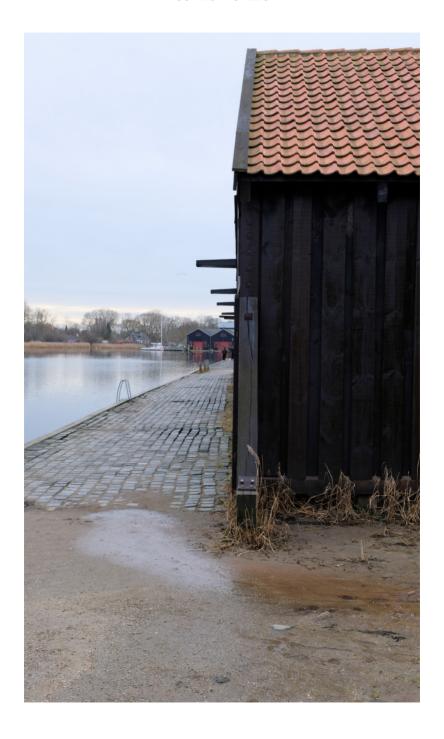
7

The gun boat sheds built around 1802, appear as coastal buildings with their traditional forms. The repeated volumes appear as different buildings on the outside but are in fact connected and inside they appear as one big room.

Looking at the sloping floorplan towards the water, intended for easy transport of boats to the water. Constructed to endure water, as the small height difference between building and water puts the building in frequent risk of floods.



GUN BOAT SHEDS









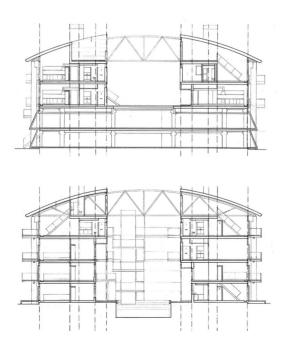


TORPEDOHALLEN

8

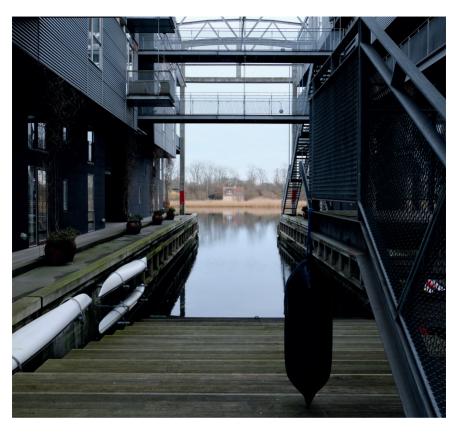
Torpedohallen is a transformation of a former industrial boathall where housing units have been placed within the original construction.

Looking at the building transformations ability to keep a close connection to the water by letting it float into a closed canal in the common space of the building.



TORPEDOHALLEN









MASTESKURENE

9

This row of buildings was originally built as storage units for ship parts, they have since then been transformed into offices.

Looking at the way light is allowed to enter the building through thoughtfully placed openings within the original construction.



MASTESKURENE









MÆRSEHUSET

10

Originally, the building housed the navy's "mærser" - mast baskets. The building was renovated in 2009 and the architects were respectful the original design.

Mærsehuset's characteristic horizontal panel and the falu-red mud color have been retained. The many doorways on the courtyard side have been refined and rebuilt with thermal glass doors behind the wooden gates in connection with the insulation of the building.

Looking at the facade by the water side where an openable two-storey facade has been created, to open up and generously light the rooms and its ability to have a closed facade during hard weather.

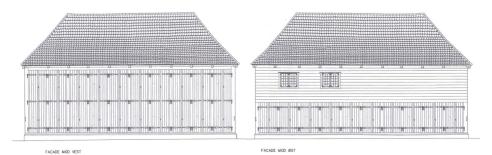
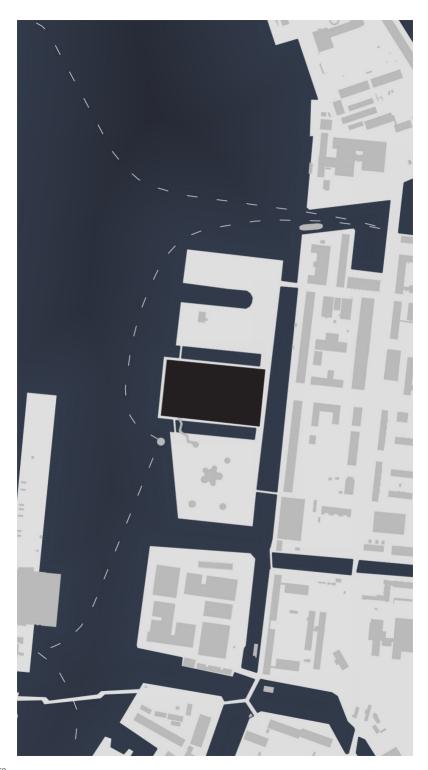


FIG 35 ELEVATION DRAWINGS: MAALI & LALANDA

MÆRSEHUSET





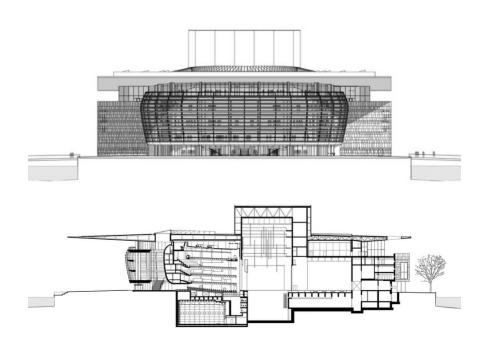


THE ROYAL OPERA HOUSE

11

The Opera is located in Copenhagen just opposite the main castle Amalienborg, home of the Danish royal family, at the shore of the harbour. The Opera House is built in alignment with Amalienborg and Marmorkirken.

Looking at how the facade opens up towards the harbour, creating views and communication with the rest of the city. The facade becoming a face from the sea.

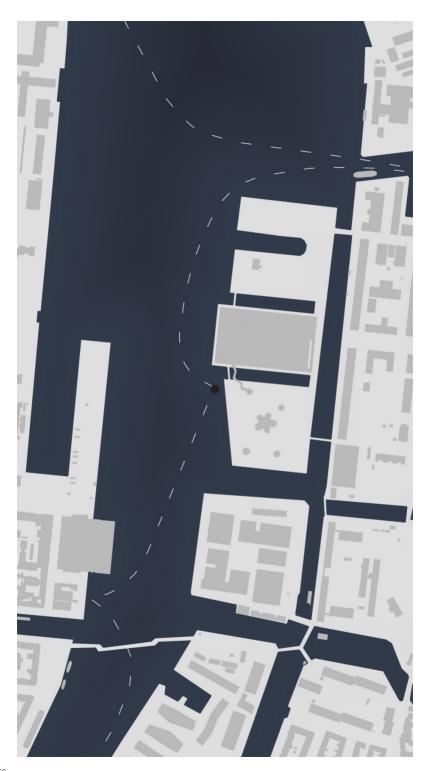


THE ROYAL OPERA HOUSE









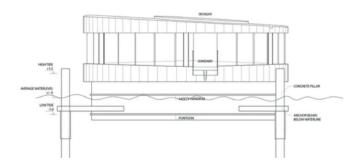
THE OPERA PAVILLION

12

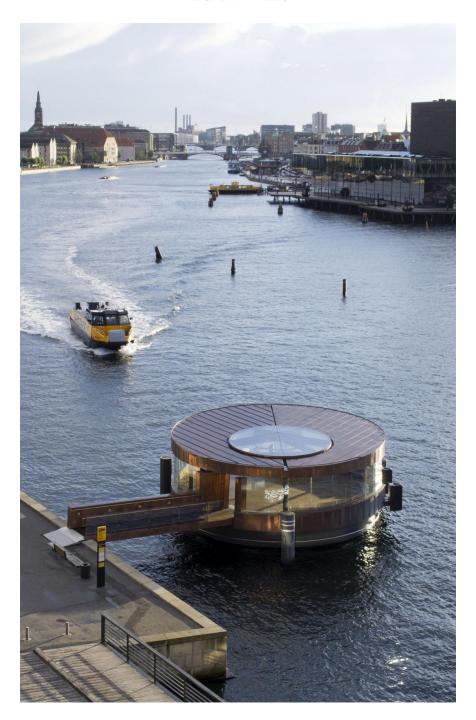
The circular pavilion was built in 2011, and is located at the harbor bus landing place. With space for two harbor buses, it helps to ensure easy transit and a waiting area with benches for audience and passengers. The pavilion can hold 200 waiting passengers.

The facade and roof are clad in copper, a reference to the bridge houses on Knippelsbro and Langebro. Railings and signs are in brass, and a bench in oak and brass is fitted along the curved wall of the pavilion.

Looking at the construction of piles and leveling of platform.



THE OPERA PAVILLION







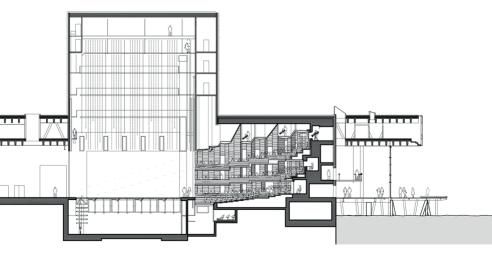


THE ROYAL PLAYHOUSE

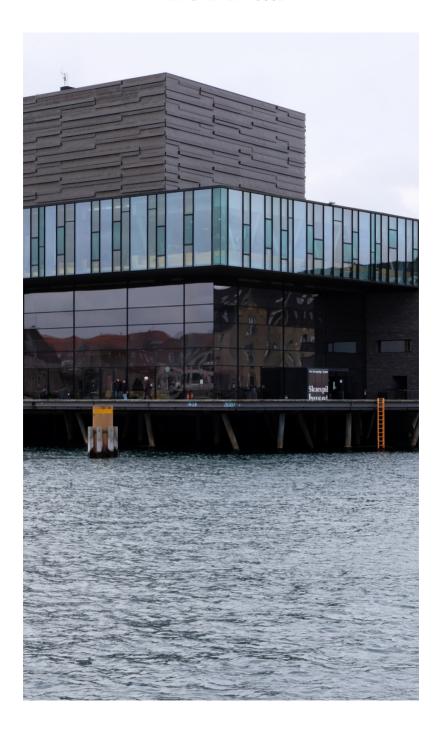
13

The playhouse is partly placed on piles into the harbour, in close proximity and in relation to the opera house. The building consists of three compositional elements, a public oak-clad promenade floating on thin columns over the water. A scene building, echoes the material character of the harbour front with brickwork and copper-clad tower. An expansive, unifying roof level containing personnel facilities and views in all directions through nuances of green glass.

Looking at the playful piles, and the dock as a seamless continuation of the street dressing the building in a public promenade.



THE ROYAL PLAYHOUSE









NYHAVN

14

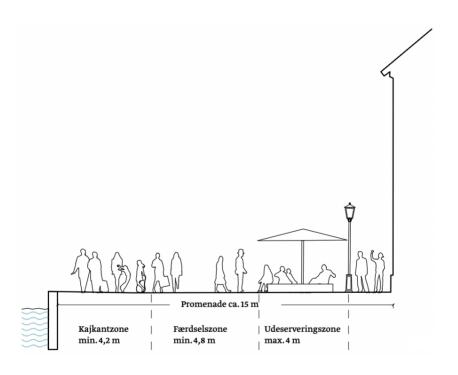
Nyhavn used to be the tradeport and backside of the city, the port has since then transformed and the facades have turned into an iconic image of the city.

Looking at the colorful facades and the parallell streetlife created by the wide promenade with outdoor cafes and public pathways creating an intersection of social interactions.



NYHAVN





NYHAVN



ELEVATOR INTEGRATED IN PATCHWORK OF COBBLE STONES, PROVIDING ACCESS TO PUBLIC TOILETS.



FIG 52 PHOTO: AUTHORS



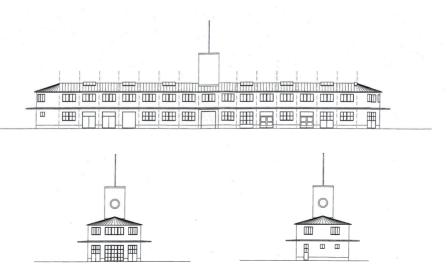
GAMMELHOLM TOLDKAMMER

15

Originally built as a customs house in 1947, today in a partially rebuilt state, contains three restaurants and a venue for jazz music. For a shorter period the building functioned as a terminal for Øresund boats.

The 65 meter long and 10 meter wide building with rounded gables, surrounded by a canopy, and with a central clock tower that appears in a moderate Art Déco style. The house is located with the gables in a north-south direction along the quayside in Havnegade.

Looking at the human scale and details on the facade of the long two-storey building.



GAMMELHOLM TOLDKAMMER





THE 1970'S, TERMINAL FOR ØRESUND BOATS.





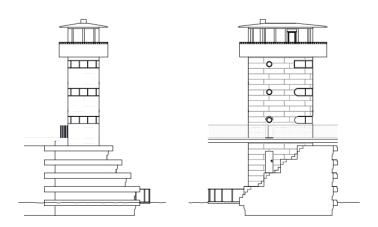
KNIPPELSBRO TOWERS

16

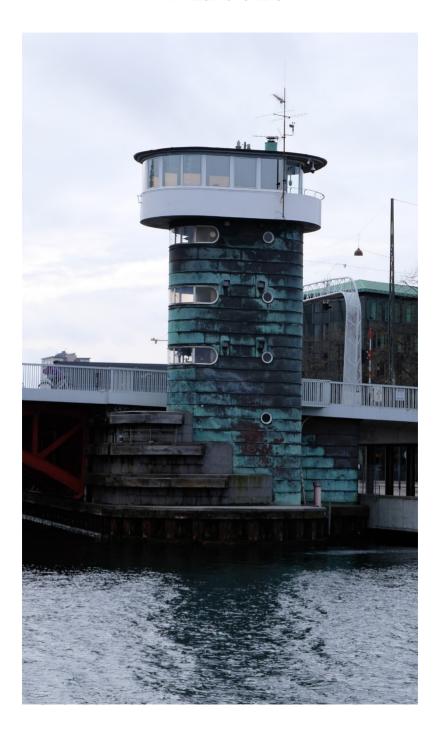
Situated on each side of Knippelsbro, the functionalist fivestory bridge tower reflects the enthusiasm for technology, machines and large ships at the time. Built in 1937 at the B&W shipyard, it consists of an iron construction, clad with wood and then copper. Barge cranes were used to insert them into the concrete foundations that were cast for the purpose.

Originally containing guard rooms, boiler rooms and operating rooms. 13.5 meters above the water is a balcony with windows all the way around intended for managing operations of the drawbridge. Today, the bridge is controlled remotely and the towers are used for other purposes, one is used as a restaurant.

Looking at the openings and views created by the building. Round windows referencing portholes in ships.



KNIPPELSBRO TOWERS



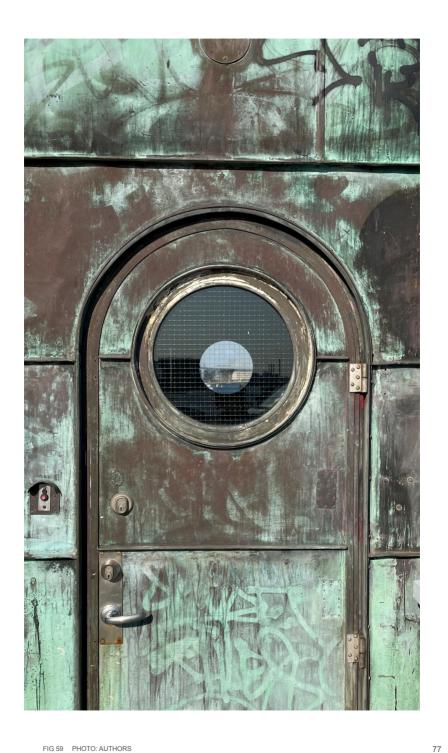


FIG 59 PHOTO: AUTHORS



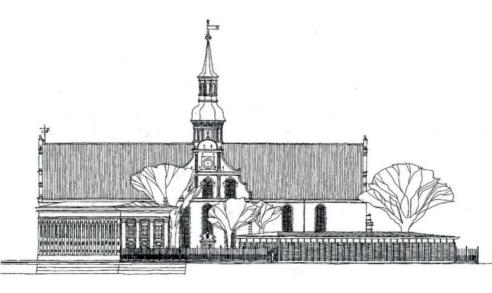
HOLMENS CHURCH

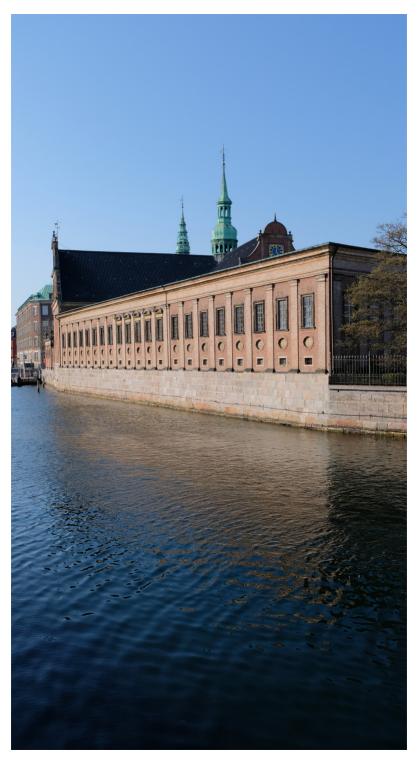
17

The site originally housed a blacksmith's shop, but in 1619 Christian IV commissioned its reconstruction into a church for the Danish Navy. Built in the shape of a cross, a small copper tower rises from the middle, in Renaissance style.

The chapel is situated alongside the canal between the bridges that join Slotsholmen. The church is one of the few to have survived the great fires in the history of Copenhagen. It has been well preserved and stands as it was originally designed. Today, it functions as a common public church.

Looking at the chapel building that rises up from the water.





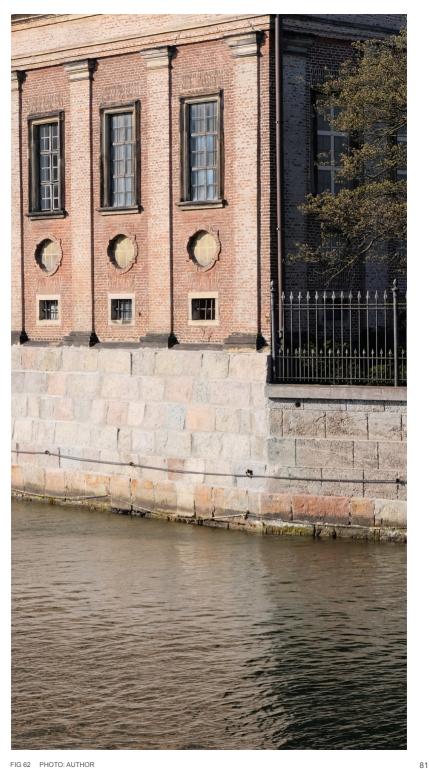


FIG 62 PHOTO: AUTHOR



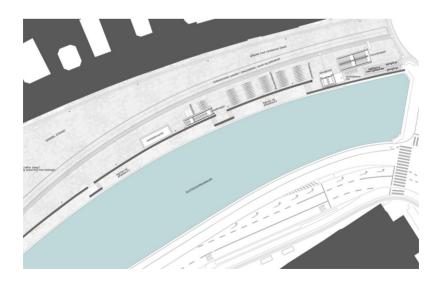
GAMMEL STRAND

18

Gammel Strand was in the citys earliest years the coastline and goods were received here from all over the world. It was the site of a fish market, a lively and noisy element of city, until the 1950s, when the sale was moved to Fisketorvet in Sydhavnen.

Today, the granite statue of one of the famous wives is visible between the re-establishment of the square, sandwiched between the quayside and the subway elevator.

Looking at the stairs leading down to the water, the lower level creating a closer connection to the canal and the influence of the tidal range.



GAMMEL STRAND







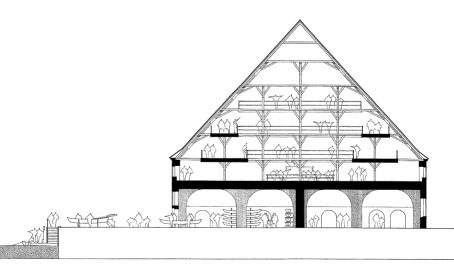


CHRISTIAN IVS BREW HOUSE

19

The tall red brick building facing the canal was built around 1608. It was originally constructed as a corner bastion, as part of Christian IVs fortification of the city and is now partly in use for the Kings Lapidarium, an archive and exhibition space containing copies of historic plaster sculptures.

Looking at the large surface of the roof and the contrast between the large roof with smaller light openings.



CHRISTIAN IV BREW HOUSE

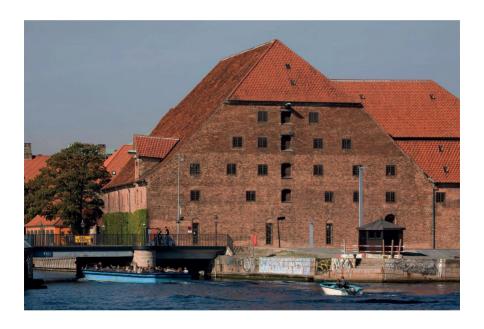




FIG 69 PHOTO: AUTHORS 89



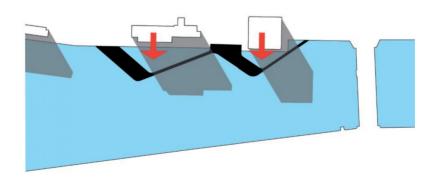
KALVEBOD WAVES

20

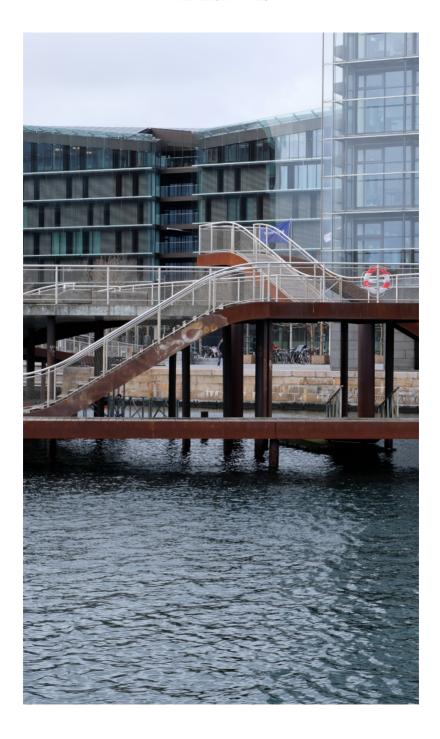
Kalvebod Brygge is a controversial stretch along the harbor where large and dominating office domiciles occupy the harbourline. The buildings were built before Copenhagen had begun to discuss an architectural strategy which valued more recreational spaces along the harbourline.

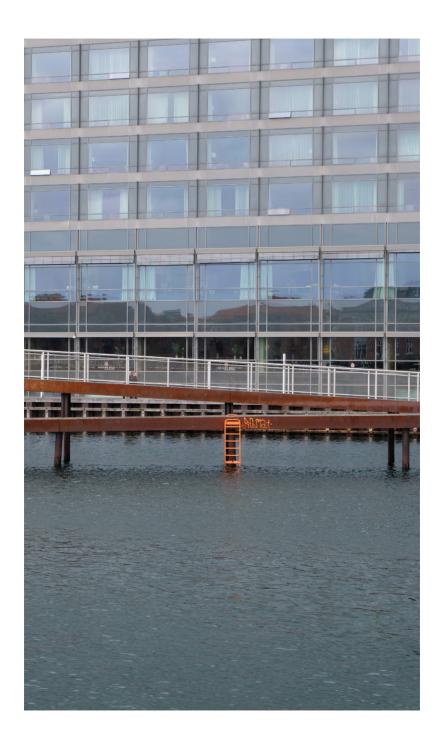
Kalvebod Waves is the winning proposal of an open competition in 2013 to create an urban recreational area to create life and openness into the area.

Looking at the popular recreational space ability to engage and attract people, as well as the approach to softening of the harbourline.



KALVEBOD WAVES







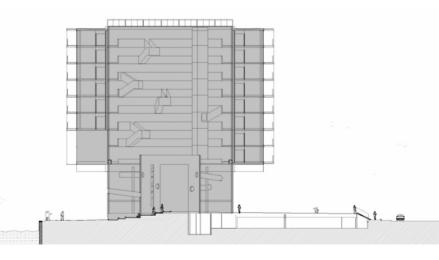
THE SEED SILO

21

The structure consist of a two round concrete silos and was used to store seeds.

The silos has been transformed into a residential building and the apartments are placed outside hanging onto the concrete silo.

Looking at the contrast between the rough, defined construction and the lighter glass facade



THE SEED SILO

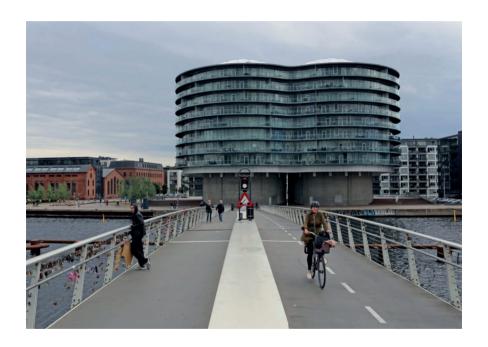




IMAGE REFERENCES

22

FIG 1	MAP OF COPENHAGEN: AUTHORS — PAGE 8
FIG 2	SECTION DRAWING: UTZON ARCHIVES — PAGE 11
FIG 3	PHOTO: RASMUS HJORTSHØJ COAST — PAGE 12
FIG 4	PHOTO: RASMUS HJORTSHØJ COAST — PAGE 13
FIG 5	PHOTOS: PAUSTIAN — PAGE 14
FIG 6	SECTION AND ELEVATION DRAWINGS: COBE ARCHITECTS — PAGE 17
FIG 7	PHOTO: RASMUS HJORTSHØJ COAST — PAGE 18
FIG 8	PHOTO: AUTHORS — PAGE 19
FIG 9	PLAN DRAWING: SLETH — PAGE 21
FIG 10	PHOTO: BOLIGA — PAGE 22
FIG 11	PHOTO: SLETH — PAGE 23
FIG 12	DRAWING: AUTHORS — PAGE 25
FIG 13	PHOTO: AUTHORS — PAGE 26
FIG 14	PHOTO: KBH BILLEDER, MUSEUM OF COPENHAGEN. 1948-1950. — PAGE 28
FIG 15	PHOTO: ANDREW FORBES — PAGE 32
FIG 16	PHOTO: REFSHALEOEN.DK — PAGE 33
FIG 17	SECTION DRAWING: RIGSARKIVET — PAGE 35
FIG 18	PHOTO: THE DANISH AGENCY FOR CULTURE — PAGE 36
FIG 19	PHOTO: AUTHORS — PAGE 37
FIG 20	DRAWING: SPATIAL DESIGN STUDENTS 2021 — PAGE 39
FIG 21	PHOTOS: AUTHORS — PAGE 40
FIG 22	PHOTO: BGB A.S — PAGE 41
FIG 23	SECTION DRAWING: VANDKUNSTEN — PAGE 43
FIG 24	PHOTO: VANDKUNSTEN — PAGE 44
FIG 25	PHOTO: VANDKUNSTEN — PAGE 45

FIG 27 PHOTO: ALEXANDER BAXEVANIS — PAGE 48 FIG 28 PHOTOS: MAALI & LALANDA — PAGE 49 FIG 29 ELEVATION DRAWINGS: MAALI & LALANDA — PAGE 51 FIG 30 PHOTO: SPACON & X — PAGE 52 FIG 31 DRAWINGS: HENNING LARSEN TEGNESTUE — PAGE 55 FIG 32 PHOTO: HENNING LARSEN TEGNESTUE — PAGE 56 FIG 33 PHOTOS: HENNING LARSEN TEGNESTUE — PAGE 57 FIG 34 SECTION DRAWING: LUNDGAARD TRANBERG ARCHITECTS — PAGE 59 FIG 35 PHOTO: AUTHORS — PAGE 60 FIG 36 PHOTOS: AUTHORS — PAGE 61 FIG 37 PHOTOS: LUNDGAARD TRANBERG — PAGE 61 FIG 38 DRAWING: ALFRED JØRGENSEN - PAGE 63 FIG 39 PHOTO: VINCENTS PRODUCTIONS — PAGE 64 FIG 40 PHOTO: MOAHIM - PAGE 65 FIG 41 ELEVATION DRAWINGS: RIGSARKIVET — PAGE 67 FIG 42 PHOTO: AUTHORS — PAGE 68 FIG 43 PHOTO: AUTHORS — PAGE 69 FIG 44 ELEVATION DRAWINGS: EMMA BUKHAVE VIDARSSON — PAGE 71 FIG 45 PHOTO: AUTHORS — PAGE 72 FIG 46 PHOTO: AUTHORS — PAGE 73 FIG 47 ELEVATION DRAWING: NIELS VIUM — PAGE 75 FIG 48 PHOTO: AUTHOR — PAGE 76 FIG 49 PHOTO: AUTHOR — PAGE 77

FIG 50 PLAN DRAWING: METRO COMPANY — PAGE 79

FIG 26 SECTION DRAWINGS: MAALI & LALANDA — PAGE 47

- FIG 51 PHOTO: AUTHORS PAGE 80
- FIG 52 PHOTO: LAURA STAMER PAGE 81
- FIG 53 PHOTO: AUTHORS PAGE 81
- FIG 54 SECTION DRAWING: LUNDGAARD TRANBERG ARCHITECTS PAGE 83
- FIG 55 PHOTO: KONGERNES LAPIDARIUM PAGE 84
- FIG 56 PHOTO: AUTHORS PAGE 85
- FIG 57 DIAGRAMATIC DRAWING: URBAN AGENCY PAGE 87
- FIG 58 PHOTO: AUTHORS PAGE 88
- FIG 59 PHOTO: AUTHORS PAGE 89
- FIG 60 SECTION DRAWING: MVRDV PAGE 91
- FIG 61 PHOTO: SANDRA GONON PAGE 92
- FIG 62 PHOTO: JACOB GALLT PAGE 93

REFERENCES

23

PAUSTIAN HOUSE - UTZON
HTTPS://WWW.PAUSTIANWEEKLY.COM/EN/UTZONHOUSE/

ORIENTKAJ METRO STATION - COBE HTTPS://COBE.DK/PLACE/ORIENTKAJ-AND-NORDHAVN-METRO-STATIONS

GØTEBORG PLADS - THING BRANDT
HTTPS://WWW.THING-BRANDT.DK/GOTEBORG-PLADS

LA BANCINA
HTTPS://REFSHALEOEN.DK/LOCATIONS/LA-BANCHINA/

PLADEVÆRKSTEDET
HTTPS://WWW.PLADEVAERKSTEDET.DK/

SPANTELOFTET
HTTP://EPLUSN.DK/SPANTELOFTBYGNINGEN-0

THE ROYAL DANISH OPERA - HENNING LARSEN
HTTPS://WWW.ARCHDAILY.COM/915153/THE-ROYAL-DANISH-OPERA-HENNING-LARSEN/5CB4ECD1284DD1C72F00000D-THE-ROYAL-DANISH-OPERA-HENNING-LARSEN-PHOTO?NEXT_PROJECT=NO

THE OPERA PAVILLION - C.F. MØLLER
HTTPS://WWW.APMOLLERFONDE.DK/PROJEKTER/OPERAPAVILLON/

THE ROYAL PLAYHOUSE - LUNDGAARD TRANBERG
HTTPS://WWW.ARCHITONIC.COM/EN/PROJECT/LUNDGAARD-TRANBERG-THENEW-ROYAL-PLAYHOUSE/5100099

GUN BOAT SHEDS
HTTPS://WWW.ARKITEKTURBILLEDER.DK/BYGNING/KANONBAADSSKURENE

TORPEDOHALLEN - VANDKUNSTEN
HTTPS://VANDKUNSTEN.COM/PROJECTS/MOTORTORPEDOHALLEN

MASTESKURENE - MAALI & LALANDA HTTPS://WWW.ARKITEKTURBILLEDER.DK/BYGNING/MASTESKURENE

MÆRSEHUSET - MAALI & LALANDA HTTPS://WWW.ARKITEKTURBILLEDER.DK/BYGNING/MAERSEHUSET

GAMMELHOLM TOLDKAMMER
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HOLMENS CHURCH HTTPS://WWW.HOLMENSKIRKE.DK/

GL STRAND

HTTPS://ARKITEKTFORENINGEN.DK/ARKITEKTEN/METRO-GL-STRAND/ HTTP://WWW.HOVEDSTADSHISTORIE.DK/INDRE-BY/GAMMEL-STRAND/

CHRISTIAN IVS BREW HOUSE

HTTPS://KONGELIGESLOTTE.DK/DA/SLOTTE-OG-HAVER/KONGERNES-LAPIDARIUM-I-CHRISTIAN-4S-BRYGHUS.HTML

KALVEBOD WAVES - JDS, KLAR HTTP://JDSA.EU/KAL/

THE SEED SILO - MVRDV

 $\label{thm:https://www.arkitekturbilleder.dk/bygning/gemini-residence-alias-froesiloen$