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LOCATION

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HISTORY
urbanization of Delft since 1575

From open field...

(great explosion of Delft)

to the edge...

and enclosed by the city
development of the Artillery Storage House

1671 - 1741

1750

1847

1867

1920

current

DEVELOPMENT OF THE COMPLEX

1410

1573

1671

1824

1903

1927

1945

1989

2013

founding of the Clarissenklooster
storage of gunpowder
construction affuitenloods
construction ‘vuurwerkers’ and pyrotechnic laboratory
storage of heavy artillery, granates, bullets and saltpeter
production and assembly of ammunition
storage for legion
departure infantry
storage Army Museum Delft
sell of ASH to private owner
redevelopment

OWNERSHIP / USE
CURRENT SITUATION

urban scale
CURRENT SITUATION

urban scale

recreational water: sailing / rowing swimming

recreational routes: cycling / walking sports agricultural leisure / education

activities in nature

Artillery Storage House
landmark
landmark (underexposed)
city square
Paardenmarkt
city routes: shopping culture / history leisure
CURRENT SITUATION

urban scale
// NEW FUNCTION AND PROGRAM

Delft Climate Centre

- research
- commercial / local products
- lifestyle
- urban farming / gardening
- kids science
- sustainable development
- leisure / horeca
The outer facades of the ensemble are closed, openings are covered with wooden gates and hatches.

The inner facades reveal the most interesting details of the monument with the windows, gutters, hinges etc.

The treeline at the Oostsingel blocks the sight at the Artillery Storage House.
research question: how does the Artillery Storage House act as an intermediair between the two worlds of the city and the ecological structure on both sides of the complex?
Paardenmarkt: dead end square

hidden by treeline at Oostsingel

conclusions

At the side of the Paardenmarkt the square is a unattractive dead end

From the Schie-side the Artillery Storage House is almost invisible
hidden courtyard

dissimilar facades

overview from courtyard

THE SITE
relation direct surrounding

conclusions

The courtyard is almost invisible when walking around the Artillery Storage House.

Because the courtyard is unaccessible the only thing to see is the outer facades, that are different for every building.

From within the courtyard, the complex reveals itself as one ensemble.
The formerly closed and hidden space becomes a public area for the people of Delft for leisure. People can experience the entire monument in once, overseeing the complete ensemble.

The Paardenmarkt becomes the prelude to the courtyard. Entrance and visibility from the east side at the crossing with the Huybrechtstoren.

A new connection between the city and the ommelanden, with The Artillery Storage House as an intermediair to the Delftse Hout.
THE COURTYARD(S)

defining the qualities and weaknesses

1. Dodgy alley between the garage and building I
2. Garage dating from the '80's pasted against building A
3. Connection of varying volumes of building B and C
4. Wall closing of the space between building C and E
5. Additional buildings distort the appearance of the monumental facades of building A and E
6. Narrow corridor between building C and H
By demolishing the unsightly garage the unedged part of the courtyard becomes empty and makes space for a new addition to the existing building blocks.
removing disturbing elements

creating extra space at the entrance

The walls at the entrance and the additional volume in front of building E will be removed in order to create more space at the entrance and routes to the main courtyard and Schie

Also the monumental facades will be in plan sight
Although building H is a quite nice house in the current situation, it will be removed to make place for clear route from the Paardenmarkt to the Schie.
new entrance building

connecting separate buildings

clear defined space for courtyard / garden

new public entrance building in courtyard

the new building will connect 4 of the separate buildings of the complex in an U-shape.

the indoor connected buildings form together the main part of the new program.

the facade of the entrance building form, together with buildings A, C and E a clear and well defined outline for the courtyard / garden.

this re-strengthens the historic composition of the opposite position of building A and C.

the building is the main entrance to the public parts of the complex, reachable from the courtyard.
ARCHITECTURE
colors, application and atmosphere of wood in the interior
ARCHITECTURE
robust black wrought iron frames in doors, windows and stairs
Building I, B and entrance building: groundfloor

- 1 entrance
- 2 tickets and info
- 3 garderobe
- 4 toilets
- 5 shop
- 6 book collection
- 7 study room
- 8 technical space
- 9 toilets
- 10 auditorium
- 11 café with terrace
- 12 sitting stairs
- 13 public exhibition
- 14 start paid exhibition

Building I, B and entrance building: attic

- 15 solar energy deck
- 16 book collection
- 17 employee rooms
- 18 technical space
- 19 roof terrace
ticketbox in entrance hall, lowered floor, sitting stairs at the cafe and auditorium and doors in facade of building B

Glulam wooden arches composed of two driehoekspanten that are connected with scharnierverbindingen at the top and at the floor
The shape is a continuation of the roof shape of building A, cladded with western cedar wood (greying). The slats continue from the roof to the floor of the roof garden to the lamellen in front of the windows of the café, creating a closed but from closeby an open appearance.

A glass connection between the existing buildings and the entrance hall is a light and transparent transition from the old to the new.
door openings in facade B

heighten the wall between building A and I
DESIGN

entrance building, front facade
WRC bekleding interieur 90 x 20 mm RAL 9016
multiplex 30 mm RAL 7026
isolatiemateriaal multiplex 30 mm
waterkerende dampdoorlatende laag
bevestigingsprofiel gevelbekleding
WRC gevelbekleding 90 x 20 mm

watervast multiplex 15 mm
houten regel
WRC gevelbekleding 98 x 20 mm

rubber tochtdichting

vrouwscherm/venster 152 x 208 mm
watervast multiplex 15 mm
waterdoorlatende dampdoorlatende laag
houten regel
WRC gevelbekleding 98 x 20 mm

Kunststof strip
Esparagollet

houten vliesgevel 200 x 80 mm

Bleading technologie
entrance building, details of the facade
ARCHITECTURE
facade cladding, red cedar wood
glass connection old and new

IMPRESION

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entrance building, details of glass connection
entrance building, details of facades and roof terrace
Photograph of the existing walls, floor, steel construction, windows and gates

The attic is an interesting space with the original spanten. The heightened lower part in the middle is high enough to walk underneath.
Building A: office space in attic

- attic
- entresol (showcase)
- printers
- office space
- seats
- lounge
- meeting room
- door to solar energy deck

Building A: lobby and research space at groundfloor

- entrance
- lobby & desk
- showcase
- door to corridor of research space (public)
- door to research space (private)
- toilets
- research space
- machines & tools
- research space
Steel columns are replaced by a modern version of the standvinken and the floor is partially removed to open up the sight to the construction of the roof.

Walls are insulated with new windows on the inside, and inside the portals of the gates steel framed doors are installed.

In the lobby a desk, a block with the stairs to the entresol and toilets are realized.

The office space in the attick is mainly realized underneath the lower part between the two shedded roofs.
gietvloer:
- PU toplaag 5 mm RAL 9006
- gietlaag 15 mm
dekvloer met wapeningsnet 40 mm
- membraan
- warmte isolerende laag
- betonnen stortvloer 200 mm
- harde isolatieplaat op gestabiliseerde zandlaag

buis 20 mm (voor openen deur)

klos op stelijzer

f lexibele isolatielaag

bestaand metselwerk 350 mm

bestaand scharnier (buiten voor oude hekken)

stucwerk

gipsplaat 12 mm

nieuw stalen scharnier op arm

stelijzer met schuifgat

staalprofiel

hard plastic met tochtrubber

epaulette

buis op lip

watervast multiplex

kitrand

bestaande houten poorten

BUILDING TECHNOLOGY

building A, details of steel and glass frame in gates
The groundfloor of building C is the most ‘original’ one. The standvinken, windows and gates are the most eyecatching elements.

The beautifull arched windows at the garden side are the only windows in building A, B and C with a low windowsills.

When the gates are openend it becomes clear how much extra light enters the space.

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**Design**

building C, existing situation

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groundfloor C

arched window with courtyard view

gate with courtyard-view
attic C with Philibertspanten

// DESIGN
building C, existing situation
Building C: ‘kids science’ and movie theatre in attic

Building A: exhibition and restaurant at groundfloor
At the groundfloor the corridor next to the facade at the garden side is the route to the exhibition spaces, the stairs to the Kids Centre in the attic, the toilets and the restaurant. The gates and insulating glazing in front of the windows are similar to the ones in building A and respects and emphasizes the monumental qualities of the building.

The Kids Science (that is housed in a small village / group of wooden boxes (referring to the storage function of the building) and the movie theatre are located here. The entresol of the restaurant is used for seating, but is also the entrance to the theatre from the restaurant side (in the evening).
building C, details kids science and art centre

langsdoorsnede van een deel van de Kids Science
langsdoorsnede van een deel van de Kids Science
langsdoorsnede over een deel van de zolder van gebouw C bij Kids Science
trap vanuit gang BG naar zolder
Building C, details of roof and wall insulation and new floors with heating.

- **Gietvloer:***
  - PU toplaag 5 mm RAL 9006
  - Gietlaag 15 mm dekvloer met wapeningsnet 40 mm membraan
  - Warmte isolerende laag betonnen stortvloer
  - Zwaluwstaart plaat
  - Bestaande houten vloerdelen
  - Vloerbalk
  - Muuranker

- **Sneldekpan:***
  - Waterlekkende-dampdoorlatende laag isolatietafel
  - Bestaand dakbezet RAL 7035

- **Afwateringsprofiel:***
  - Bestaande 30 mm
  - Driekant met schuine buizen regel
  - Multiplex 20 mm

- **Gietboor:***
  - PU toplaag 5 mm RAL 9006
  - Gietlaag 10 mm dekbies met wapeningsnet 40 mm membraan
  - Waterlekkende laag betonnen stortvloer
  - Zwaluwstaart plaat
  - Bestaande houten vloerdelen
  - Vloerbalk

- **Ventilatieknaal, toevoer:***
  - Bestaand metselwerk 500 mm isolatieslaag
  - Multiplex 20 mm stucwerk
  - Bestaande vloerbalklaag
  - Kit