Quarantine ensemble

P5 presentation

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Located along the river - surrounded by water
Analysis

Direct surrounding - river and harbors

![Image of river and harbors with labels: Nieuwe Maas, Quarantine area, Heysehaven, Werkhaven, Eemhaven]
Analysis

Green context

Water hardly noticeable

Time seems to stand still
Sequence of experiences
Research question analysis

What was and is the character/atmosphere of the outdoor space in the quarantine ensemble in relation to the buildings and what can it be in future?
Analysis

Why a quarantine terrain?
What was the function?
Why the Beneden Heijplaat?
Original design

A geometrical structure of separate pavilions

Every building had its own function/program
Physical changes of landscape and terrain
Unique green environment in the city of Rotterdam with a natural river beach.
Functions of the surrounding

Orientation and movement

Green and water

Residential areas
- Pernis
- Schiedam
- Heijplaat
- Heysehaven
- Werkhaven
- Waalhaven
- Eemhaven

Portugaal

Urban scale

Analysis
Analysis

Scale difference between buildings of the context
Enclave

omsloten en contrast met omgeving
‘ensemble’

Coherence between elements

An ensemble consists of buildings and context
Analysis

The in-between

Space between the buildings

Space between the buildings and green

In-between space

It is space in sense of ‘distance’

It is a place on its own
Defined by separation of functions in different buildings, because of:
- risk of infection
- daylighting
Analysis

**Current in between space**

- Current green structure
- Trees and buildings define different in-between spaces

- Industrial activity
- Edge of terrain
The original structure of paths and green is still traceable.
The buildings make architectural statements that influence the in between space.

Orientation and faces of the buildings/architecture influence the in between space.
Analysis

Building typology

Buildings with architectural expression

Main material used: brick and roof tiles

Corridor typology

Typology bigger connected spaces

House typology
Relation inside-outside

Ground floor higher than ground level outside

Entrance zone with steps and concrete canopy

Framed view from inside
Building method

Timber roof construction
(hanging rafters)

Brick masonry - cavity wall

Concrete foundation
on wooden piles

General load bearing
structure

Technical section
Valuation

Cultural historical
- reflects an essential part of shipping and health care culture in the early 20th century

Uniqueness
- original suggested function as quarantine area
- the current green structure > special in Rotterdam

Ensemble value
- Landscape elements: water, beach, quays, green
- Buildings: pavilion structure, one architectural language
- Remote positioning in its contracting context.

Spatial quality/experience
The spatial quality between the current green structure and the buildings, forming different outdoor spaces.
Valuation buildings

- Main bearing structure (indicating the zoning of the building)
- Exterior of building volume (one layer base volume with roof landscape)
Valuation of atmospheres

Bare and sober (original)

Nature and seasons

Idyllic and village-like

Buildings in the green

Architectural expression

Clinical atmosphere

Interior details

Brick - human scale material

Clinical and sober atmosphere (original)

Additions to interior atmosphere

Suber interior
Starting points

- Strengthen enclave character
- Exploit the potential of the qualitative outdoor space (functional)
- Search for functions that fit the specific building typologies
- Use the village character
- Create a meaningful relation between outside and inside space
Rehabilitation centre

A quite green place at the border of Rotterdam to rehabilitate.

Qualities of the quarantine ensemble may have significance for the rehabilitation process.
Research question design

“How can I create a coherent ensemble by adding a new layer to the existing, where outdoor space and interior space have a meaningful relation?”

Ontwerpthemaa’s

- Beleving en sfeer

- Relatie tussen binnen en buiten (overgangen)

- Daglichttoetreding

- Schaal en compositie
Concepts

Using the new volume to strengthen the corner

Zones

Movement - routing outside continues inside the buildings

Accessibility and connections

Thinking about the relation between inside and outside in the existing and added buildings.
Interventions

- New building
- Existing
- Addition
- Old entrance

Diagram showing the location and layout of new and existing buildings.
Intervention existing

zicht naar buiten
Opening up the roof to make the interior more light and lively.

Visible roof construction influences the interior spatiality.
Transformation existing
Existing and addition
Addition connected to existing
**Bouwtechniek**

**Isoleren aan binnenzijde**
- baksteen muur (bestaand)
- stucwerk (bestaand)
- houtvezel isolatie 80mm
- raamlaag met wandverwarming, 25 mm
- leemstuc

**isolatie**
- beton vloer (bestaand)
- viltlaag
- fermacell platen met vloerverwarming
- belastingspreidende laag
- vloerafwerking

**achterzetraam isolatie glas**

**Granito vensterbank**

**aanzicht achterzetramen**
Klimaat ontwerp
Nieuwbouw

Bouwhoogte gebaseerd op bestaande bouw

Dozen met verbindende gang

Volume met inhammen > fragmenteren en reageren op bestaande
Patios and views
Licht, zicht en beleving

snede a

snede b

snede c
Constructie - nieuwbouw en tussenbouw

Houten construcie

Structuur van portalen, kolommen en liggers

Stabiliteit door kruizen (dozen stabiel maken)
Gevel
Bouwtechniek

Hoge ruimtes met portalen

Tussengevels met zinken luifels en glas

Twee verdiepingen
Zichtbaarheid constructie

zwembad

gang
Interieur referenties
Klimaat ontwerp
Buitenruimte - tussenruimte

- moestuin
- groene patio
- hortus conclusus
- bloemen/planten
- entree plein
- hagen
- bijplanten
- tuin
- bomen
- tuinen
- Pergola - verbinding
- paden
- bomen
- tuinen
Redefining relation with the river

- Jetty (terrace)
- opening in the green boarder to give a view on the river
Buitenruimte

Balans tussen de natuur zijn gang laten gaan en het maken van een goed functionerende buitenruimte.