Fenix II:
From an emigration pioneer
to an integration icon

P5 Presentation
Heritage & Architecture
Rotterdam Harbour Heritage
Adapting 20C Heritage
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Location
N.A.S.M.
Nederlandsch-Amerikaansche Stoomvaart-Maatschappij

H.A.L.
Holland Amerika Lijn
Original Facade

Original Floor Plan

360m
Cranes on top of the building

Original Floor Plan

360m
Monolithic Concrete Construction

Original Floor Plan

360m
History
Redeveloped Fenix I & II
Section Framing Time

Demolished/Bombed part 1922
Original part 1922
Build in 1950
Aluminium Storage

Adapted Floor Plan 1950

Fenix I

Fenix II

Bombed/Burned

History
History
Connection with City Center
Adapted Floor Plan 2013

Fenix I

Fenix II

Circus Rotjeknor

Fenix Food Factory

Bombed/Burned


19
Fenix I
Cultural functions
& added dwellings

´Immigration Museum´
Research Questions

What does an (im-)migration museum/center in the Fenix II contribute to the Rotterdam Harbour Heritage?

What are spatial architectural possibilities to transform the built structure of the Fenix II into a mixed cultural program?

What are values that can be elaborated into the design, and how?
Hope for a better future
Integration

“the action or process of successfully joining or mixing with a different group of people”

Cambridge Dictionary
Integration

“the action or process of successfully joining or mixing with a different group of people”

Cambridge Dictionary

Language
Integration & Language program

Cultural Integration Program

Hope for a better future Program
Hope for a better future
3D Section
Language School

Classrooms  Meeting  Multifunctional Stage + Study Places
Language School

Classrooms  Meeting  Multifunctional Stage + Study Places

C.I.P
Kitchen & Studio

Hope for a better future
Language School

Classrooms    Meeting    Multifunctional Stage + Study Places

C.I.P
Kitchen & Studio

Market hall    Routing

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3D Section
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Classrooms  Meeting  Multifunctional Stage + Study Places

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Immigration Museum

Hope for a better future
3D Section
Hope for a better future
Location
Structure & Scale
Structure & Scale
Position in urban landscape
Structure & Scale
Creating the architectural route
Light & Texture
Light beams from rooflights

Light effect on the floor
Materials of Concrete and plaster inside the Fenix II

Contrast of ‘old’ material with ‘new’

Upper image: Hofmandujardin Architecten, Schipper Bosch - KB Building
Lower image: GUTGUT - The Mill
Ground Floor

1: Routing
2: Markethalls
3: Restaurant
4: Bar
5: Museum
5.1 Museum Shop
6: Supply entry
7: Recreation area
8: Terrace
9: Bicycle parking
10: Offices
1st Floor

1: Routing
3: Restaurant
5.2: Museum hall 1
5.3: Museum hall 2
5.4: Museum hall 3
5.5: Museum Shop
10: Offices
11.1: C.I.P Music
11.2: C.I.P Stage
11.3: C.I.P Culinair
12: Kitchen

12: Kitchen
2st Floor

13: Classrooms
14: Meeting room
15: Open study places
16: Platform
Exploded View
Deconstruction

Isometric
New Situation
Isometric laminated timber connection with concrete

Existing concrete connection

Metal Connection

Glue Anchor

Laminated Timber Column

Wooden Finish

Bolds

Existing concrete connection

Exploded view

Construction
Isometric laminated timber connection with concrete
Elements for direct sunlight

Element for rainwater drainage

Elements for no direct sunlight & generating electricity
Secundary construction

Steel placing element

Wooden connection

Gutter min 30 cm wide

Openable window frame

Solar panel connected to HSB roof

Wooden Purlin Roof Structure

Finishing Hood

Finishing element placed in the gutter of previous placed roof element
Floor Heating / Cooling Kitchens

Wooden separation with internal sound absorption

Central extraction air to WTW

Fresh air from WTW Diffused Supply

Air supply / extraction from WTW

Floor Heating / Cooling

Milk glass

Bringing in more natural light
Climarads are integrated into the Facade of the classrooms

Stage with a flexible use. Surrounded by closeable curtains

Diffused extraction air to WTW

Fresh air from WTW Diffused Supply

Fresh air from WTW

Lifted learning platforms, finished with a grey carpet.

Viewpoint & outside place to have a break
Use the cold of the Rijnhaven as a base for floor cooling.

During Summer doors - windows main route can be opened allowing more fresh air to enter the building. Windows in the roof element can be opened to provide a natural air exit.

Rainwater is collected in two main drainages.

Original roof lights are used to provide natural light in C.I.P.

Electrical heat pump used to heat/cool thermal systems.

Roof element used to generate electricity (36 degrees). Only northern light enters through roof.

During Summer doors - windows main route can be opened allowing more fresh air to enter the building. Windows in the roof element can be opened to provide a natural air exit.
Concrete Roof
Construction Crane Tracks
Concrete Construction
Steel Windowframe
Fenix II
Questions ?