the gallery flat
(or fallen tower)

P5 presentation
25th of June, 2019
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A design for a transformation of an office building into dwellings taking into account circularity, demonstrating how circularity offers freedom for (non-traditional) households.
Part I Architecture: research
February 2018

Part II Construction, Management & Engineering: research
September 2018

Part III Architecture: design
February 2019

timeline of graduation process.
RESEARCH
research part I as part of the master Architecture,
research part II as part of the master Construction,
Management & Engineering, and design (part III)
building at the end of its life

dismantling

extract valuable materials

demolish

shredder

waste

reprocessing
Linear building process from the perspective of a building component, based on Durmisevic (2010) and Crowther (1999).
reuse building at the end of its life
easy and quick disassembly
building material
sorting
decomposer
geruse
recycle
Linear building process (top) and circular building process (bottom) from the perspective of a building component, based on Durmisevic (2010) and Crowther (1999).
Toasters by Agency of Design, from left to right: the Optimist, Pragmatist, and Realist.
case studies
interviews.
implementing reducing, reusing and recycling.
The building in 1974, source: Beeldbank Amsterdam
The building in 1974, source: Beeldbank Amsterdam
The building in 1974, source: Beeldbank Amsterdam
Layers (Brand, 1994)
early on

- initiate
- prepare
- design
- building process

- waste handling & processing
- information & documentation
- take-back management
- maintenance & repair
- transport & logistics
- acquire & procure
- transport & logistics
- acquire & procure

- the role of the architect
Buitenveldert.
top view of Amsterdam Zuid
Typologies in Zuidas and Buitenveldert, made by author.
view from Lex van Deldenbrug, on the left Buitenveldert and on the right the Zuidas.
gallery, vertical routing

private outdoor spaces (balconies)

courtyard
gallery
urban fabric in Buitenveldert
Urban site restructured.
The household, illustration for an article by the SAR in the journal Plan. (Plan, nr. 8 (1980), 45)
sketches
existing west facade

elevation
west facade

elevation
east facade

elevation
east facade

elevation
reuse floors, columns

structure
systematization of the building

structure, skin, space plan
several apartment types

- type A (65 m²)
- type B (130 m²)
- type C (195 m²)
- type D (130 m²)
- type E (195 m²)
different sizes
a possible configuration; the renter determines

second, sixth and seventh floor
live & work OR live / work

ground floor and first floor
reuse concrete facade panels

skin
reuse concrete facade panels

skin
reuse concrete facade panels

skin

west facade
reuse window openings

skin

east facade
reuse window openings

**skin**

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reuse pavement tiles

water-resistant cork

strawboard

reused concrete facade panel

reused window openings

mechanical connection

rail to overcome differences

magnetic connection

perforated aluminum acoustic panels

threshold carpet separator

dismountable carpet tiles

made of recycled plastic

strawboard

flax with floor heating elements

water-resistant cork

strawboard
natural homogenous materials

space plan
natural homogenous materials

structure
new structure

structure
The existing concrete floor isokorf is mechanically connected to the wooden framework and flax. The magnetic connection rail is used to overcome differences in height. Perforated aluminum acoustic panels are installed for the gallery. Detachable reused wooden floor is used with strawboard and flax, including floor heating elements. Water-resistant cork is also used. The old and new structure is indicated in the diagram.
additional demountable services
natural homogenous materials

space plan
recycled materials

skin
the unit

services
District heating and cooling in Buitenveldert
Rainwater bottlenecks in Buitenveldert
the wall

space plan
type A

plan

3D view
impression type A
impression type B
from collective to private

model

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gallery

common spaces
roof gardens

common spaces
courtyard

common spaces
restaurant

common spaces
shared dining & washing

common spaces
working

common spaces
working

common spaces
working

common spaces
common spaces

working
parking in the basement

common spaces
EVALUATION
Metropolitan apartment compared to Zuidas apartment

evaluation
EPILOGUE