Living at home in the City

P5 Presentation Kobe Macco

24 January 2011
1 Berlin
Introduction Berlin
Berlin before the Second World War
Berlin after the Second World War
Berlin until 2010
2 Location
Introduction design location

Unter den Linden  Brandenburger Tor  Museum Insel  Kreuzberg  Friedrichshain
Fascination
Heinrich Lüber

‘...een zinvol leven is als het boven zichzelf kan uitstijgen en bijdraagt aan de publieke zaak.’

Hannah Arendt, *The Human Condition*, 1958, p44
3 Research
Research

Berlin

Report
Research locations

Ten random locations in Berlin
Ten locations

Prinzessinnengärten
Oranienstraße-Prinzenstraße, Berlin

Platoon
Linienstraße-Alte Schönhauserstraße, Berlin

U-Bahnhof
Weinmeisterstraße, Berlin
Conclusion Urban Niche

identity | recognizability | initiative | borders | time | flexibility

unprogrammed | plural | temporary | interaction | creativity | motivation
Conclusion Urban Niche
From sociology to architecture
Overlay with filters in all scales
Urban scale
Block scale

windows  materialization  window frame  shutter  elevation  doorstep  shutter
Program scale

materialization  divisible door  curtain  walls  frames  sunlight  curtains  pavement  road

Pieter de Hooch_The Bedroom_1658
Emanuel de Witte_Interior with a woman at the Virginals_1665
Samuel van Hoogstraten_A peepshow_1655
5 Urban Scale
Ostbahnhof

Wall

Spree

Design location seen as Urban Niche

Historical structure
Urban Niche Block

Berlin block
Closed block
Strip block
Open block

Urban Niche Block
Overlay in Urban Plan
Filters from public to private
Urban Public Space
6 Block Scale
Functions

- offices
- mix
- dwelling
- parking garage
- mix
- dwelling
- dwelling
- mix
Multifunctional building

dwelling type A

public functions
Multifunctional buildings:

- Dwelling$^+$ A
- Dwelling$^+$ B
- Dwelling$^+$ C

Monofunctional buildings:

Swimming pool
Baths:

‘The function of the Baths is to create and recycle private and public fantasies, to invent, test, and possibly introduce new forms of behavior’
Public functions

- swimmingpool
- spa
- restaurant
- exhibition
- art
- fitness
- shopping
Dwelling+
Dwelling$^+$ concepts A_B_C

Dwelling A

Dwelling B

Dwelling C

space of transparencies

$d_1 < d_2 < d_3$
filters:
surfaces for interacting

door plans:
concepts for dwelling

space of transition → → →
Dwelling A / transitions

private app.

transition

public app.

public
Dwelling B / transitions

private app.

transition

public app.

public

Dwelling B / variation

105 m²

102 m²

74 m²
Dwelling B_front and back
Dwelling C / transition

private app.

transition

public app.

public

156 m²

105 m²

102 m²

156 m²
Entrance focus area
Entrance focus area
7 Program
Focus
Impression focus area
Urban Impression_entrance squares
Impression focus area
Plan focus area
Load bearing structure

diagonal structure makes it possible to freely apply filters on the facades.
Deck construction
Accessibility via external elevators and staircases
The three buildings are connected via decks a raised urban deck arises
Functions

multiple functions overlay in volumes
Functions

Urban exposure via routing along facades
Urban events via narrow building

**Multifunctional buildings:**
- dwelling
- art
- exhibition
- shops
- fitness
- restaurant
- spa
- swimming pool
Dwelling+ A ground floor
Impression interior
Impression interior
Impression ground floor filters define plan
Dwelling+ A 1st floor
Impression first floor_Urban Niche in house
Multifunctional buildings:

- dwelling
- art
- exhibition
- shops
- fitness
- restaurant
- spa
- swimming pool
Impression facade Spa
Spa first floor

Spa ground floor
Spa principle
Urban impression pool
Urban impression dwelling and exhibition space
Facades
Facades filters on frame
Facades_different filters
Facades_filter along gallery
Facades_inbetween area gallery
8 Technical
Materialization

perforated black steel

concrete panels

steel net fence

oukome deck

black aluminium
Facade detail A

- concrete panels
- slidable perforated steel
- aluminium window frames
- okoume battens
Climate installations

Via heat exchangers the hot water from the Spa or the cool water from the Spree is preheated.
Climate installations

heating via water in Spa
_fitness
_spaa
_art centre
_housing
_shops
_restaurant

cooling via water in Spree
_fitness
_spaa
_art centre
_housing
_shops
_restaurant

_climate installations
Climate installations

 Pipes via service zone in basement
Thank you.
rainwater via shafts housing floor 7
floor 8 roof floor 5
floor 4 floor 3
+ 10820 mm floor 2
+ 7690 mm floor 1
+ 4560 mm ground floor
+ 140mm floor -1 parking garage
- 2800 mm
+ 13950 mm
+ 17080 mm
+ 20210 mm
+ 23340 mm
+ 26340 mm
Plan focus area