Invitation of the city
Design of a public building in Rotterdam
Intro

- program - concept - spatial design - construction - climate design
Studio Public Realm: A public building for Rotterdam
the focus lies on the relationship between public space and building

process overview
- research
- urban scenario
- architectural design
Rotterdam as a network city
1. The center needs places with different character that can be claimed by different social groups. Their adjacency and connection can stimulate social exchange.
1. The center needs places with different character that can be claimed by different social groups. Their adjacency and connection can stimulate social exchange.
Urban interventions
The urban setting
A brief history of the ‘Stadstimmerhuis’.
Planning office for the reconstruction of Rotterdam
Addition to become a city office
1976
Assignment for a new hybrid program
program

intro - concept - spatial design - construction - climate design
Program concept: ‘Invitation of the city’

A building that

is an invitation to visit the city...

and invites the city to use the building
Collective use > shared use

Public
- Tourist information
- Rotterdam Museum
- Visitor information
- Rotterdam store

Collective
- City Office
- Workshops
- Meeting
- City Expo
- Lectures
- Cafe
- Events
- Performances

Private
- Cultural center
- Creative workspace
Collective space

De Sola-Morales:
Collective (...) space is neither public nor private but both things simultaneously; public spaces that are absorbed by particular use or private spaces that acquire collective use.”

| Public space | Collective space | Private space |

Research: ‘Public, Private Collective’
Spatial characteristics are important for social interaction
spatial translations

Public | Collective | Private

Public space | Collective space | Private space
concept

intro - program -

- spatial design - construction - climate design
Existing building
Enclosed private spaces
Large new grid
16.2 x 14.4 m block structure give various possibilities of use.
Open public space
Collective space
Collective Space

Vertical differentiation connects different levels
horizontal sliding enable connections
Public and private route
spatial design:
Private
Public
Collective

intro - location - program - concept -

- construction - climate design
spatial design:
Private route
Public route
Collective space
New facade provides large entrances and visual interaction with the street
Public entrance
Orientation
Coolsingel view on private entrance
Private functions - entrance

Dwellings
Offices

Creative workspaces

Coolsingel
Private - creative and culture

Dwellings

City office

Back office

Section A
Private route - Creative workspaces
Creative workspaces

Monthly and daily rental fits any spatial need

Flexible space size allows offices to expand or shrink
creative workspaces
Culture circulation - Central Cafe
Central cafe at the Meent
spatial design:
Private route
Public route
Collective space
Public functions

The public functions are arranged in a ‘diagonal street’, maximizing interaction.
Public functions - city office
Public functions - city office
Rotterdam museum

museum routing
Second skin facade as circulation zone
Facade circulation zone
Facade circulation zone
section - collective spaces

section B
Daylight states

- Roof
- Hall
- Base
- Garden
- Workshops
- Events
Base: city expo
Collective Second floor
Collective Third floor

Meet

Courses

flex workspace

flex workspace
Collective roof garden

collective spaces overlook roofgardens.
Collective - Performance hall
construction

intro - program - concept - spatial design -

- climate design
Load bearing structure
Load bearing structure
climate design

intro - program - concept - spatial design - construction -
climate facade

Winter
- Museum
- Draft free natural ventilation

Spring
- Sun reflective foil 50% reduction
- Pre-heated natural ventilation

Summer
- Sun shading, heat extraction
- Sun shading, natural ventilation

Installations
- Heat pump
- Floor heating
- Heat recovery
- Air handling
- Ventilation

Floor cooling
Air cooling
climate facade
Questions?