REDESIGNING THE VAN GENDTHALLEN

P4 presentation
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REDESIGNING THE VAN GENDTHALLEN
REDESIGNING THE VAN GENDTHALLEN INTO A PUBLIC INTERIOR
REDESIGNING THE VAN GENDTHALLEN

INTO A PUBLIC INTERIOR

CONTENT

1. essence of the van Gendthallen

2. mission statement: creating a public interior

3. composing a program

4. urban plan

5. building design
REDESIGNING THE VAN GENDTHALLEN

INTO A PUBLIC INTERIOR
REDESIGNING THE VAN GENDTHALLEN INTO A PUBLIC INTERIOR
REDESIGNING THE VAN GENDTHALLEN INTO A PUBLIC INTERIOR
repetition creates rhythm
rhythm creates atmosphere and depth

diversity between halls
layered building, storytelling

spaciousness between halls
scale of the complex
repetition creates rhythm
rhythm creates atmosphere and depth

diversity between halls
layered building, storytelling

spaciousness between halls
scale of the complex > !
introvert and pragmatic building > creates a 'forgiving' building

But what is possible?

"How can the van Gendthallen become part of Amsterdams’ public domain?"
PUBLIC  →  openly accessible

INTERIOR  →  private (atmosphere)
ABOUT PUBLIC PLACES

- create shared interest
ABOUT PUBLIC PLACES

- create shared interest

- overlap between groups (without shared interest)
ABOUT PUBLIC PLACES

- create shared interest

- overlap between groups
  (without shared interest)

- modern public realm: network city
PROGRAM
diversity: balance between extremes
diversity: balance between extremes

random <-> specific use
diversity: balance between extremes

random <-> specific use

short stay <-> long stay
diversity: balance between extremes

random <-> specific use

short stay <-> long stay

intimate <-> open spaces
densification  (build program)

visitors by day

visitors in evening
densification  (build program)

visitors by day

visitors in evening
densification (build program)

visitors by day

visitors in evening
foodcourt
bar
foodbar
public toilets
balast foot + steel connection creates momentum
rebar in bottom of foot

existing foundation hal 5
(former train foundation)
**eventspace & exhibition space**

- **28 °C**
- **25 °C**

- **22 °C**

- **22 °C**

- **22 °C**

- **28 °C**

**Heat Exchange**

- Water/air based

**VHR Unit**

- Isolated water pipes

**Heat Exchanger**

- Water > air
- Pre-cools air

**Radiation Mat**

- For local cooling/heating

**Energy Source:** Heat pump

**Water Works to Heat Pump in Hall 3**

**Induction Unit**

- Convection

**Air Filtration**

- Kitchen fumes
- Radiation units for local cooling (or heating)

**Extra Ventilation or High Demands**

- Doors closed during event

**Switch to Hall 1 Only** for high capacity

**Roof Hall 5 80% Translucent (glass)**

- To ensure enough sunlight

- Light and reflecting finish

**Air Filtration**

- Kitchen fumes

**Radiation**

- Mat in Hall 1

- For high capacity
isolated water pipes

heat exchanger
(water > air)

pre cools air

heating/cooling by radiation mats in floor/ceiling

air filtering kitchen fumes

radiation mats for local cooling/heating

energy source: heat pump

water works to heat pump in hall 3

extra ventilation or high demands

doors closed during event

22 °C

22 °C

22 °C

25 °C

25 °C

28 °C

25 °C (event)

switch to hall 1 only for high capacity

radiation units for local cooling (or heating)
light and reflecting finish for reflection sunlight

induction unit
convection

30 °C

28 °C

22 °C

22 °C

22 °C

25 °C

VHR unit heat exchange water based

heat exchanger (water > air) pre cools air

radiation mats for local cooling/heating energy source: heat pump

infiltration nozzles under seating

isolated water pipes

eventspace & exhibition space

exhaust air

VHR unit heat exchange air/air based

exhaust air

convection

convection unit (water > air based)

warm/cool water pipes
75

foodcourt

bar

info desk wardrobe

dressing rooms

artists lounge

public toilets

stage

restaurant (nu 350 m²/two.superscript )

1 50 m²/two.superscript per 60 personen middenklasse restaurant

60% = niet verdienend opp

local (eco) super market

(400 m²/two.superscript)

small super market = 400 - 700 m²/two.superscript

terras

horeca

event space

(concerten, shows, opvoeringen)

plein + markt

interactie straat <-> space

(interactie straat <-> space (documentaire W. H. White))

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bar

retail

exposition area

expo/atelier

laden lossen

entree markt

open space

(2m)

9m

2.5m

1.5m

2.5m

2,5m