Binnengasthuys
The Arcade Library and the Stately Tower

Level 2, scale 1:200
Western Facade, scale 1:200

Level 3, scale 1:200

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Msc 4 Studio Fall Interiors 2013
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The Arcade Library and the Stately Tower

Ventilation principle for the tower.

As the wind flows over the building, underpressure is created to stimulate natural ventilation in all rooms of the building. In the windless days an additional ventilator is necessary to make indoor space for offices and lecture rooms.

On the top floor a heat pump is placed to extract the additional heat.

Flexibility.

The floors in the tower are designed as open floor plans. May the university think it necessary to enclose space for offices and lecture rooms, the floors can be divided in rooms and spaces.

Very informal study spaces are created to enjoy the view and to be a treat to sit.

Level 12, scale 1:200

Level 11, scale 1:200

Level 10, scale 1:200

Level 9, scale 1:200

Level 8, scale 1:200

Level 7, scale 1:200

Level 6, scale 1:200

Level 5, scale 1:200

Level 4, scale 1:200

Level 3, scale 1:200

Level 2, scale 1:200

Level 1, scale 1:200

North Facade, scale 1:200

Section through library + arcade, scale 1:200

Section through tower + climate design, scale 1:200

Northern Facade, scale 1:200

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Ventilation and heating system for the library.
Both sides of the library have its own air handling unit in the basement. The air is supplied from the roof.
A heat pump generates heat from the warmth in the ground. The air is supplied through canals on either side.

Construction of the library

Construction of the tower

Climate design library, scale 1:200

Section through library, scale 1:200

Section through tower, main hall and library staircase, scale 1:200

The Arcade Library and the Stately Tower

Section through library + tower, scale 1:200
Facade fragments scale 1:50

Sheet of TECU Bronze, 3mm, bent to suit

Waterproofing

Mineral wool insulation

Concrete floor 250mm

Radiator panel

Ventilation valve

TECU Bronze perforated panel

Radiator panel in lowered ceiling to heat up or cool incoming air

Ventilation valve

Window frame, glass glued on wooden frame

Aluminum profile for water drainage 3mm

Insulating glazing, 6+8mm

Automatic pleated sunshading on inside of cavity. (Pellini Screenline)

Aluminum window trim, powder-coated white

TECU Bronze window trim 3mm with ventilation holes

TECU Bronze window trim 3mm for water drainage

Architectural concrete paving slab, with ventilation slits for water drainage