SECTION A
scale 1:100
SECTION B
scale 1:100
**DETAIL 1**

- Steel grating floor: 5 cm
- Screws
- Steel beam: 20 cm
- Concrete: 10 cm
- Moisture barriers: 1 cm
- Ground

Scale: 1:10

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**DETAIL 2**

- Door
- Steel column: 2 cm, 80 cm
- Steel plate: 1 cm
- Concrete base
- Screws
- Water collection system
- Footing

Concrete floor: 25 cm
Floor heating | cooling
Insulation: 6 cm
Concrete: 10 cm
Moisture barriers: 1 cm
Ground

Scale: 1:10

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**DETAIL 3**

- Sliding element
- Aluminium window frame
- Double glazing
- Concrete expansion joint
- Concrete floor: 25 cm
- Floor heating | cooling
- Insulation: 6 cm
- Concrete: 10 cm
- Moisture barriers: 1 cm
- Ground

Scale: 1:5

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The House of Wine | Ioanna Fragkaki 4188551
**CONSTRUCTION**

Construction process phases

- Shallow warm water effluent
- Deep cold water intake
- Sea
- Summer winds
- North cool winds
- South warm winds
- Cooling station
- Closed loop chilled water distribution
- Closed loop warmed up water distribution
- Centralized heating system
- Centralized sea water cooling system

**CLIMATE**

**SUMMER**
- Roof climate
- Centralized sea water cooling system
- Cooling station
- Closed loop chilled water distribution
- Sea
- Shallow warm water intake
- Centralized heating system
- Closed loop warmed up water distribution

**WINTER**
- Roof climate
- Centralized heating system

**volumes | temperature**

- Structure grid of the roof
- Columns, trusses of the roof
- Grid prevents unwanted objects to enter the space between the two corten plates
- Welded cor-ten steel plates
- Wooden revolving element
- Grid that prevents unwanted objects to enter the space between the two corten plates

**Construction process phases**

- Construction process phases
- Wind direction
- Sun path

**CLIMATE**

- Sun path
- Wind direction

**volumes | temperature**

- welded cor-ten steel plates
- welded cor-ten steel plates
- Wooden revolving element
- Wooden revolving element

**Structure grid of the roof**

- Structure grid of the roof
- Grid that prevents unwanted objects to enter the space between the two corten plates
- Sun path
- Wind direction

**Construction process phases**

- Construction process phases
- Wind direction
- Sun path

**CLIMATE**

- Sun path
- Wind direction

**volumes | temperature**

- welded cor-ten steel plates
- welded cor-ten steel plates
- Wooden revolving element
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**Structure grid of the roof**

- Structure grid of the roof
- Grid that prevents unwanted objects to enter the space between the two corten plates
- Sun path
- Wind direction

**Construction process phases**

- Construction process phases
- Wind direction
- Sun path

**CLIMATE**

- Sun path
- Wind direction

**volumes | temperature**

- welded cor-ten steel plates
- welded cor-ten steel plates
- Wooden revolving element
- Wooden revolving element