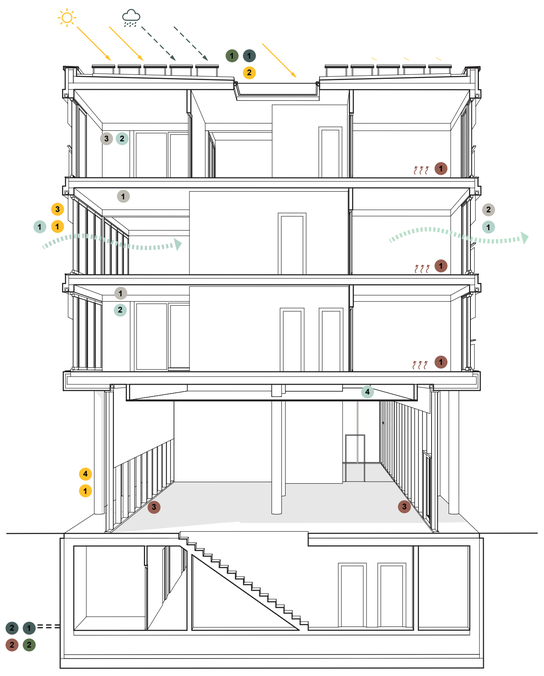
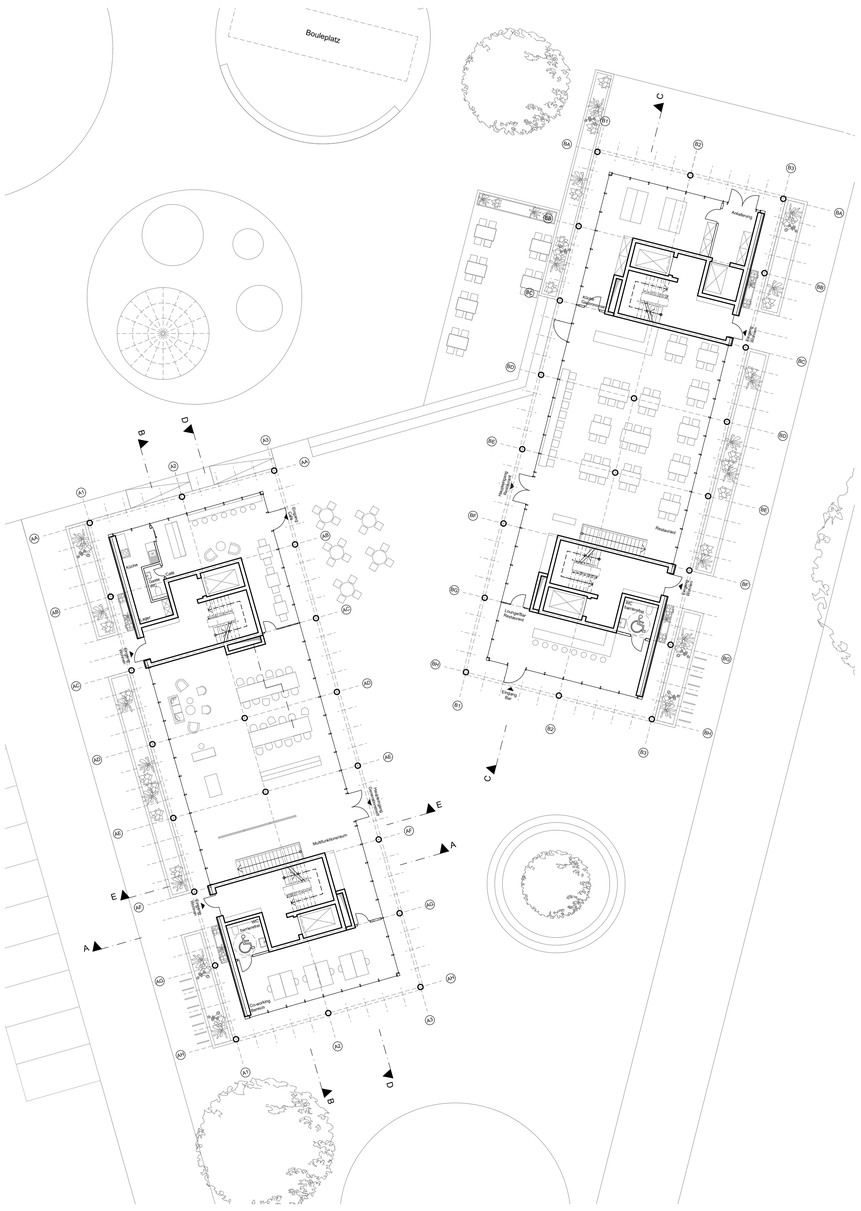
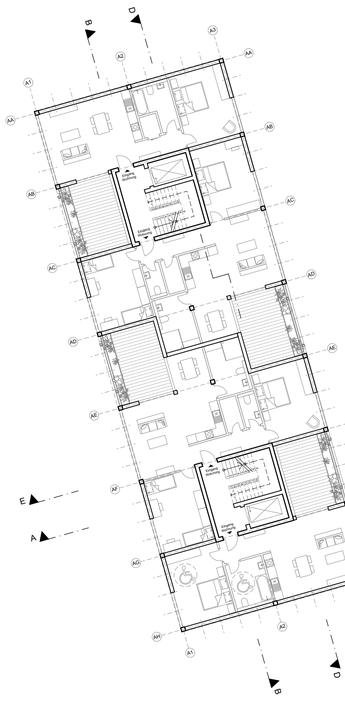
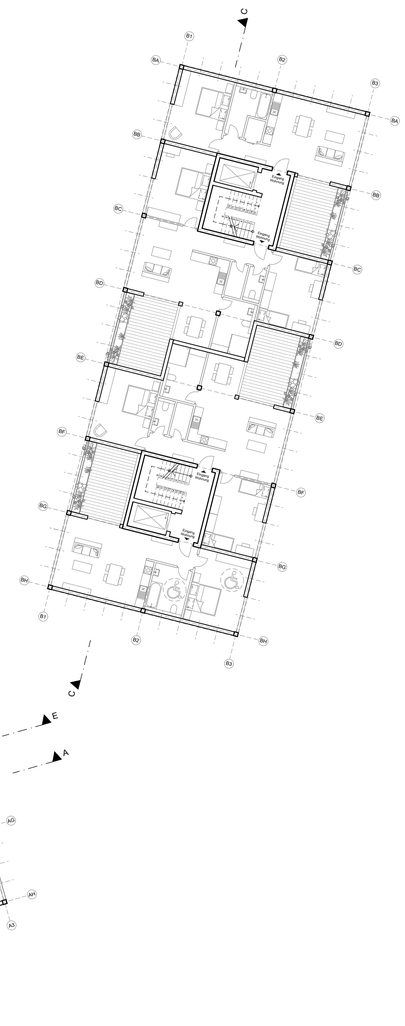
Healthy Homes Design Competition

The main idea of the design is to turn the living space into a place of harmony, where one feels healthy, happy and close to nature. Based on the first point of our concept - coexistence, the ground floor of both buildings is planned entirely for public use. Located next to the garden, the café and restaurant offer views of the harbour and green areas of the complex and invite visitors to relax through the outdoor spaces provided. A meeting space for residents to hold workshops, gatherings with music and games, exhibitions and more unifying activities take over the ground floor of one of the buildings. The garden offers something for everyone - from trampolines and a climbing frame, to a community urban garden and a boule court - all amid lush greenery and spaciousness.
The upper floors are dedicated to living. All apartments have a west-east orientation to make optimal use of sunlight and contribute to better daylight and thermal comfort in the living spaces. To cover a broader range of residents' interests apartments with an area of 64 to 165 m² are provided, which can accommodate both couples and families up to 6 people. A key aspect of all apartments is the large balcony that offers a private outdoor space, which in post-pandemic conditions has confirmed its added value for optimal living comfort.









Energy supply

Light

1. natural light through large windows
2. additional light through skylights
3. outer fabric sunshades (living spaces) with manual controlling, electrically operated
4. inner fabric sunshades (ground floor) with manual controlling, electrically operated

Ventilation

1. natural ventilation (living spaces)
2. decentralized mechanical window ventilation as sound-proofed ventilation solution (living spaces)
3. decentralized outgoing air system as humidity protection for wetrooms (living spaces)
4. mechanical ventilation (common rooms on ground floor and basement)

Electricity

1. PV - system
2. additional remote supply

Soundproofing

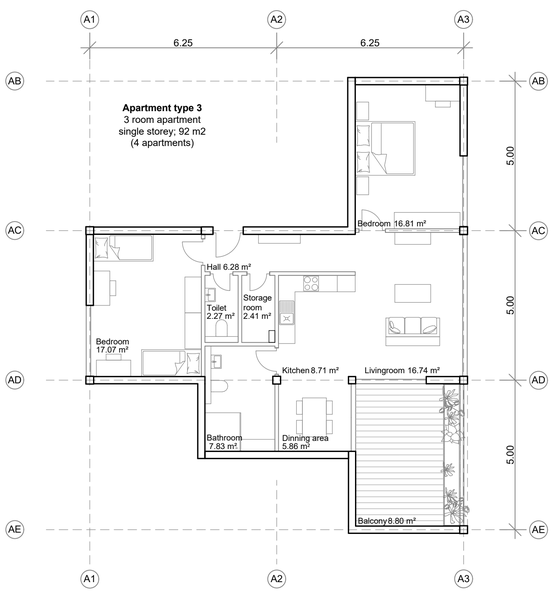
1. soundproofed celling wood elements
2. Low-E-Triple glasing U-Value: ca. 0,80 W/(m² K)
3. decentralized mechanical window ventilation as sound-proofed ventilation solution (living spaces)

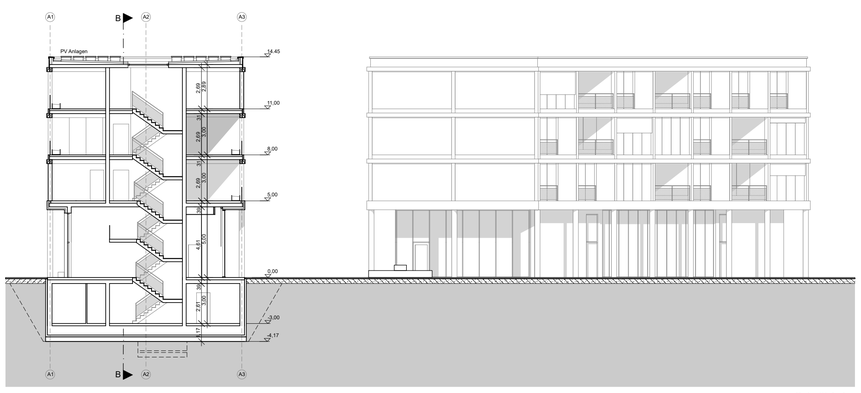
Heating

1. floor heating (living spaces)
2. heat generation by heat pump
3. floor convector (common spaces on ground floor)

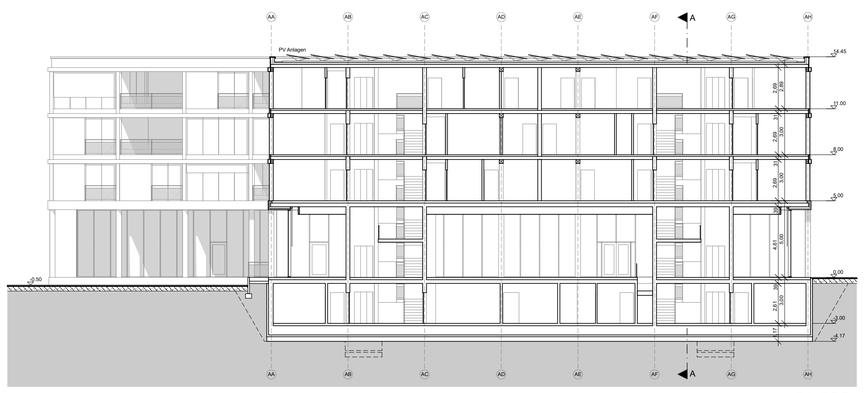
Water

1. rainwater use for watering of green areas (rainwater storage in ground tanks)
2. greywater use for watering of private plants on the balconies and for sanitary installations (sewage treatment plant in basement)





Schnitt A-A



Schnitt B-B

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