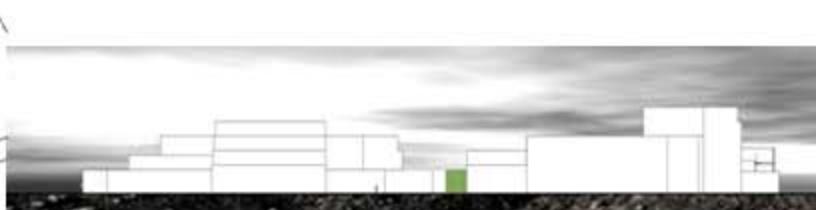


Dw**e**lling for a **co**munity

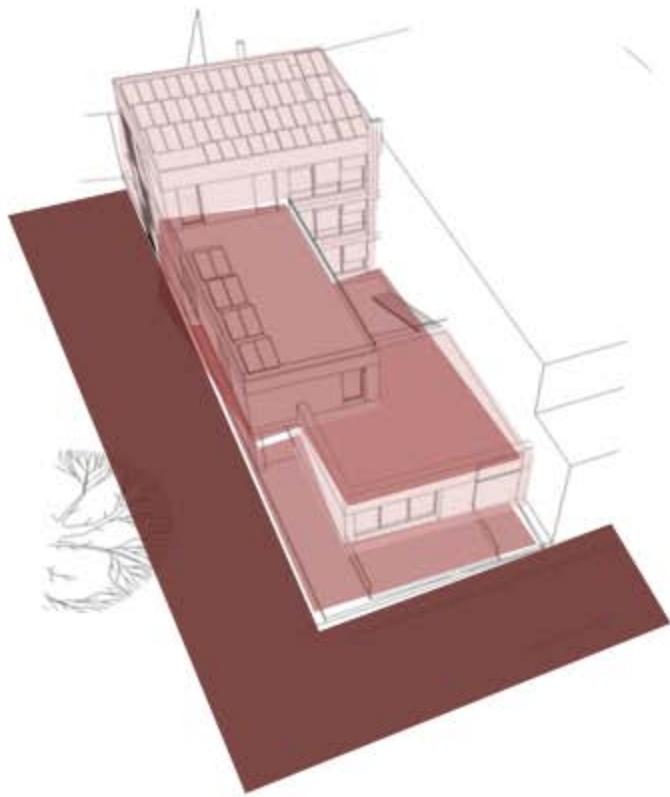




- block 64004a
- plot area: 313 m²
- max. building area: 2.2 x plot area
- max. footprint area: 70% of plot area



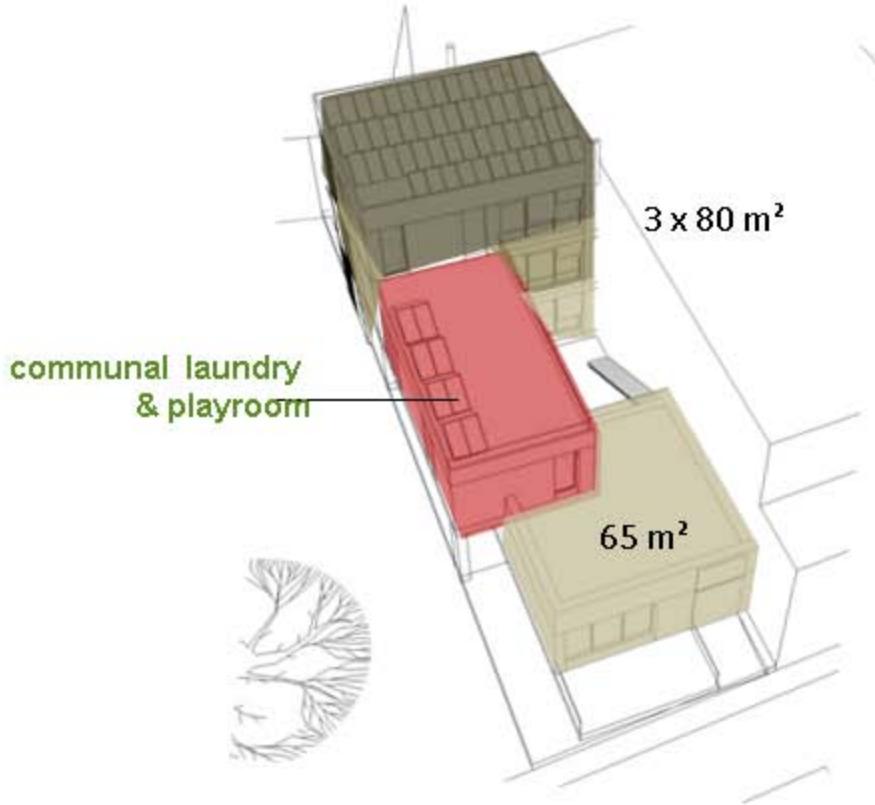
Area analysis



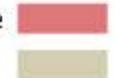
public use



private use



spaces for common use



apartments

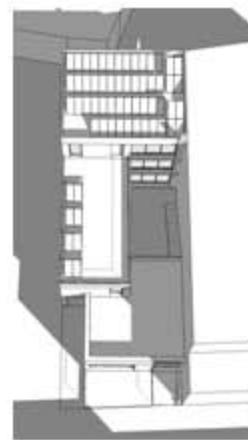




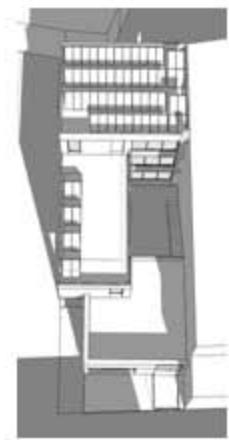
10.00



12.00



14.00

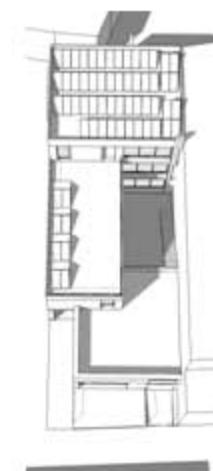
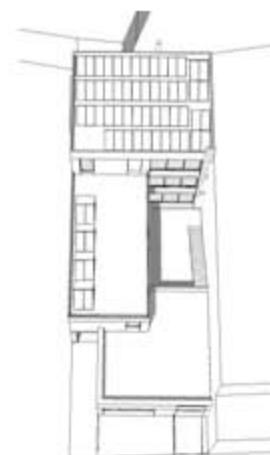
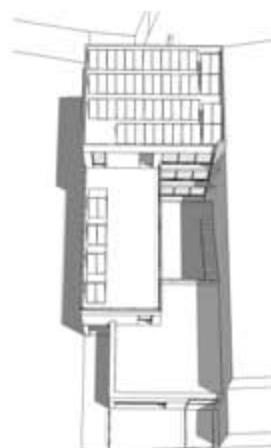


16.00



DECEMBER

orientation



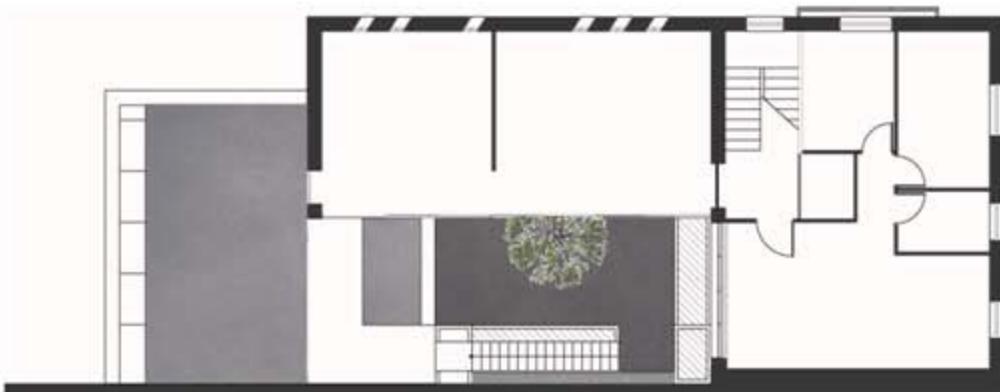
JUNE



Sun study



floor plan



1st floor plan

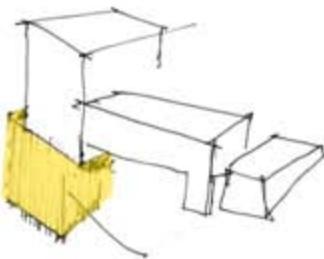


2nd floor plan

- 1. living room-kitchen
- 2. master bedroom
- 3. bedroom
- 4. bathroom
- 5. parking
- 6. elevator
- 7. open yard
- 8. planted roof

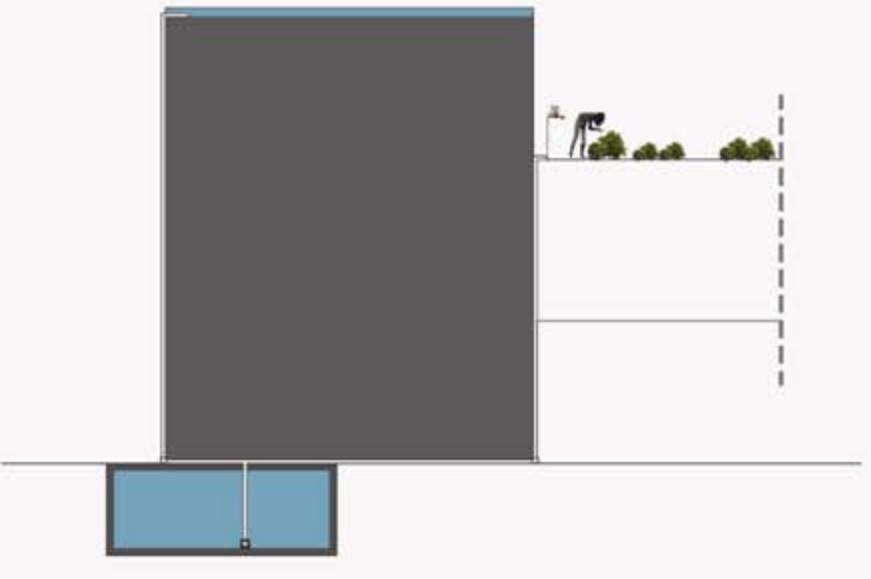
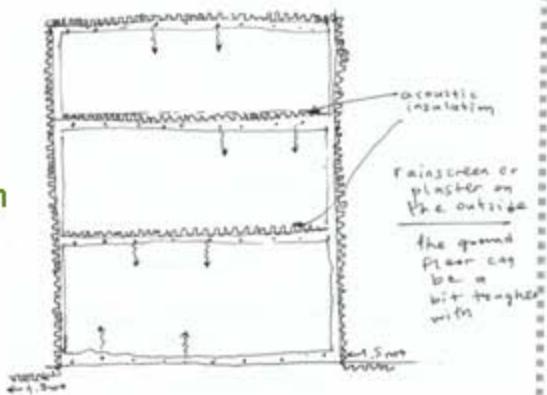


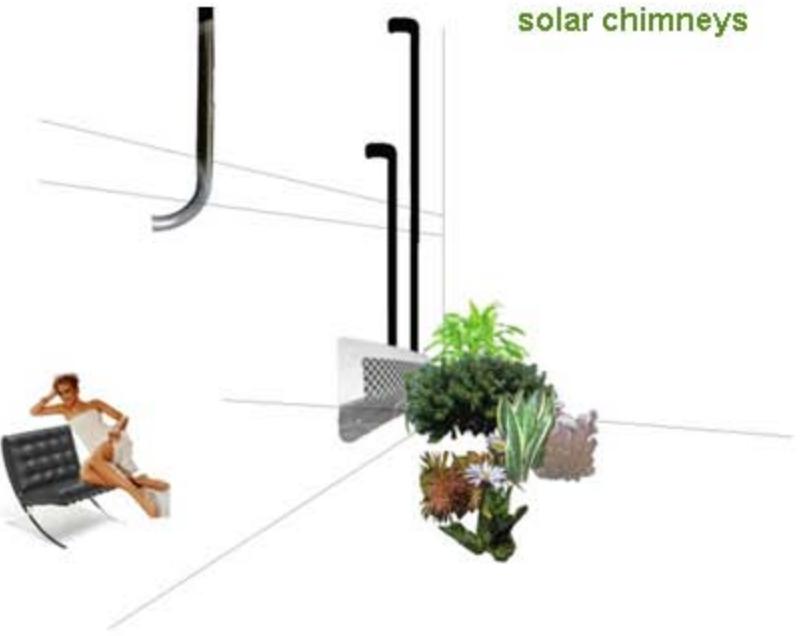
reduce consumption
educate users



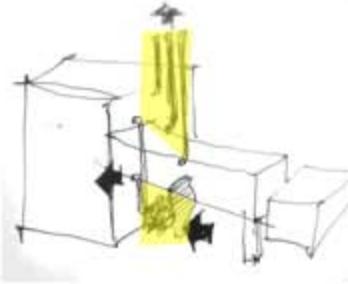
collect rain water

external insulation

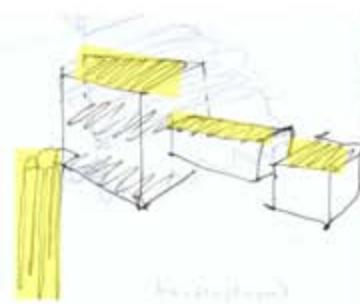




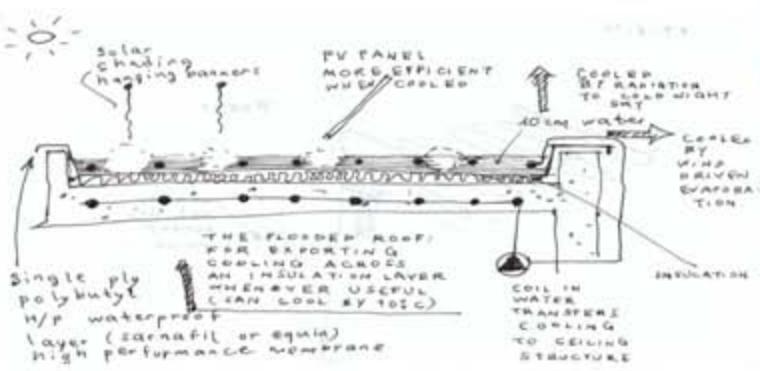
solar chimneys

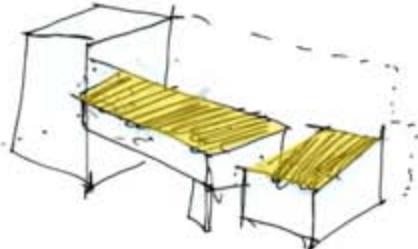


flooded roof cooling

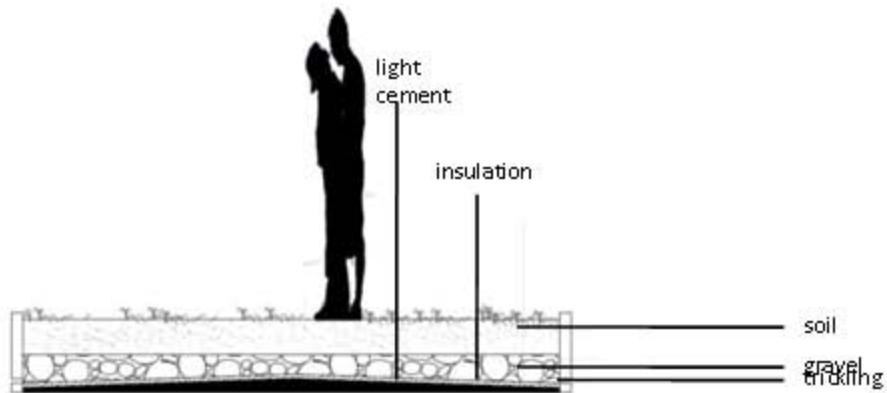


borehole heating

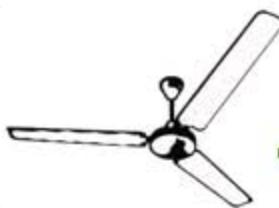




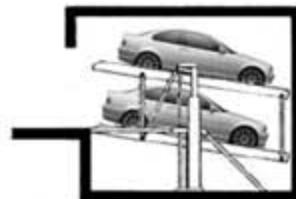
planted roofs



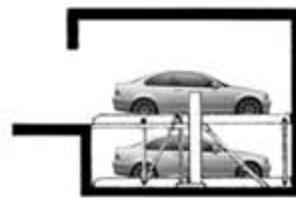
recycle bins



ceiling fans

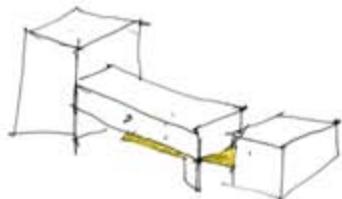


car pool system

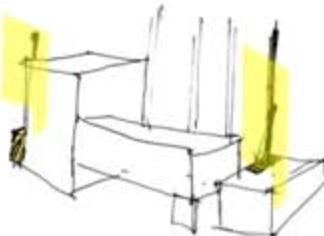
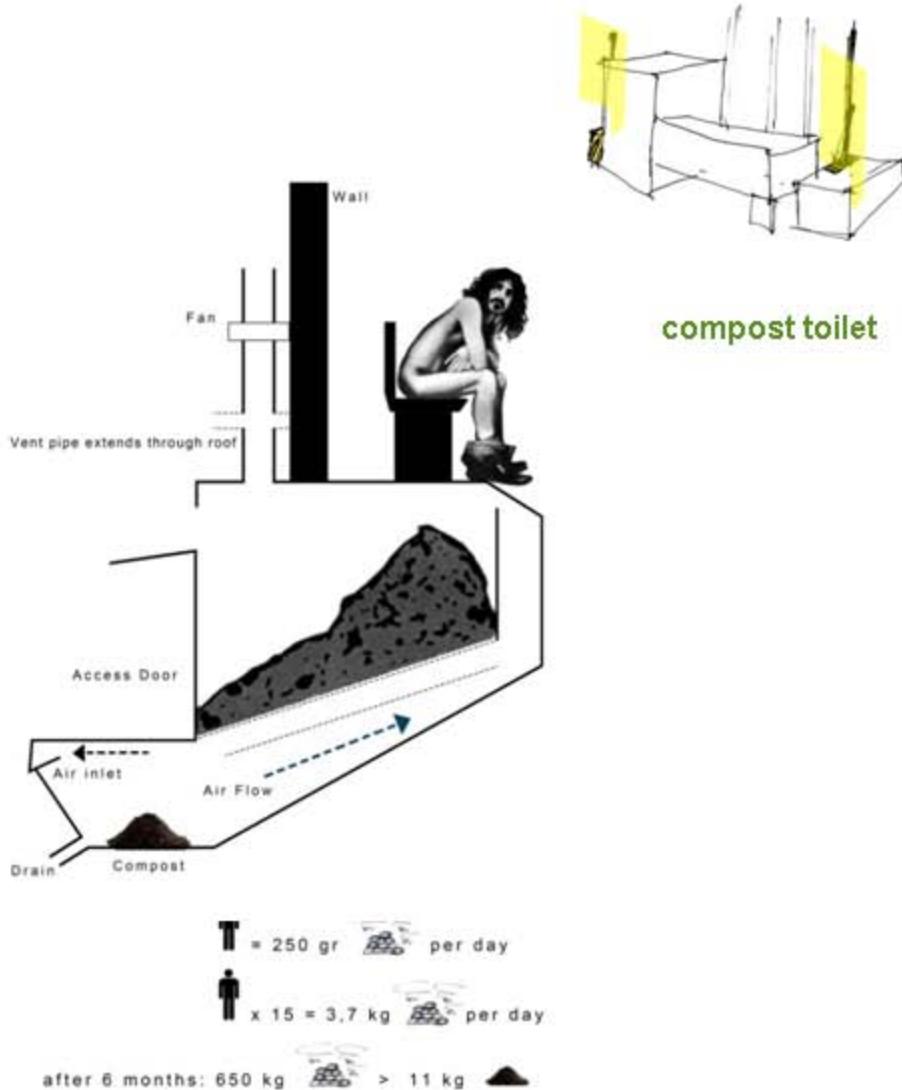


bike shed





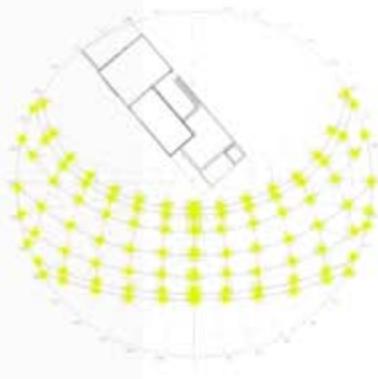
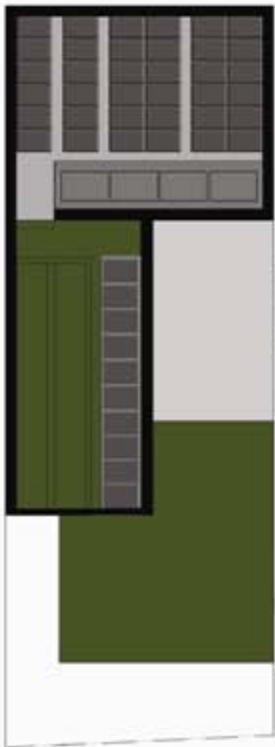
reed bed



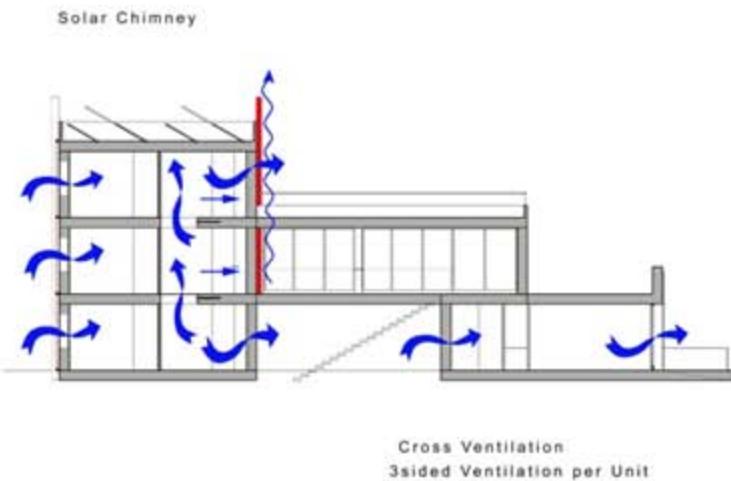
compost toilet

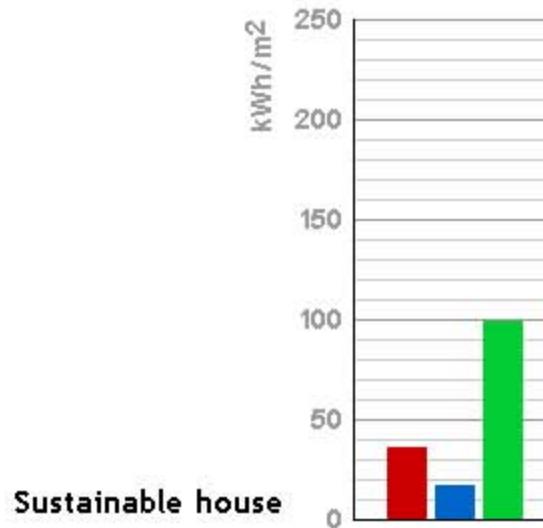
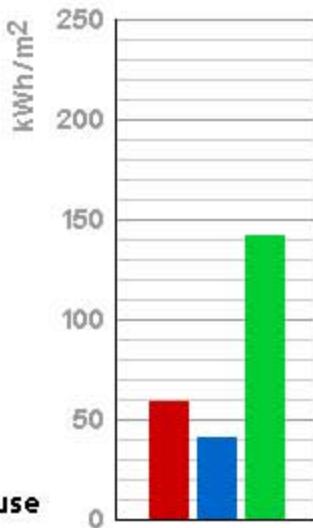


solar thermal and PV panels

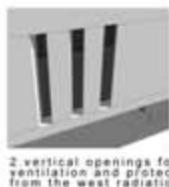


ventilation





	heating energy (kWh/m ²)	cooling energy (kWh/m ²)	lighting energy (kWh/m ²)	total energy (kWh/m ²)	Reduction by	CO ₂ emissions (kg/m ²)
Conventional design	58.8	40.5	142.1	241.4		48.3
Sustainable design (using green roof, high thermal mass, external insulation, high performance windows and with shading)	36.2	17.0	99.1	152.3	37%	30.5



ZERO Carbon VS *LOW Carbon*



Thank you Brian Mark !!!!!