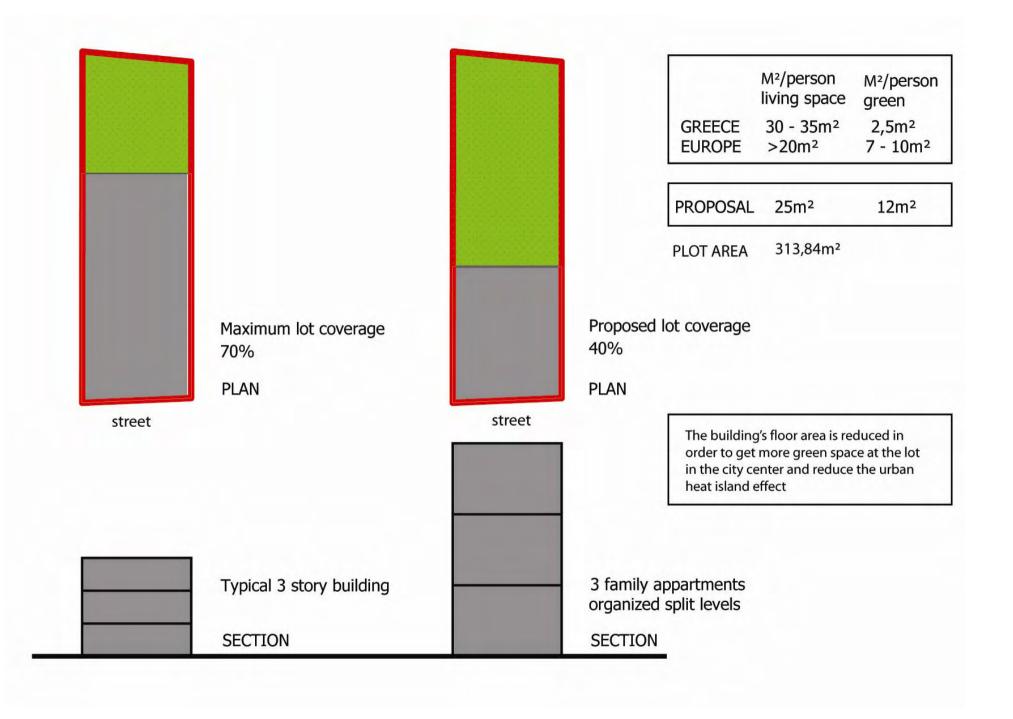
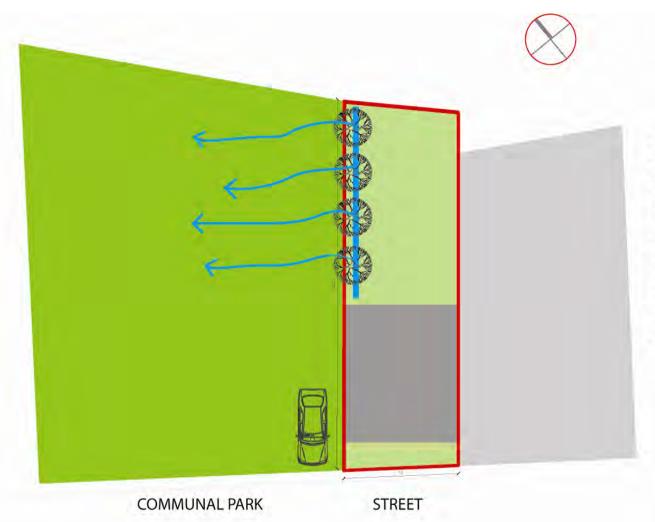
ECOWEEK 2010

GREEN HOUSE OF ZERO EMISSION

Ilic' Olivera
Iliopoulou Eleni
Ritsakis Giorgos
Stevanovic' Sanja

Office: AREA™





- We create a natural fence of trees by placing them in a row in order not only to ensure the privacy for the habitants but also to help the natural irrigation towards the communal park.
- We adopt the car club stragedy: one car is being used by the whole building. We manage to reduce the use of the car by limiting the parking spaces.



NEUTRAL PLAN AND SECTION PLACING SPACES ACCORDING TO IDEAL TEMPERATURE

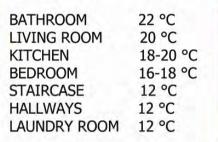
PLAN

PROPOSED PLAN AND SECTION PLACING SPACES ACCORDING TO IDEAL TEMPERATURE, PHYSICAL LIGHTING AND CIRCULATION



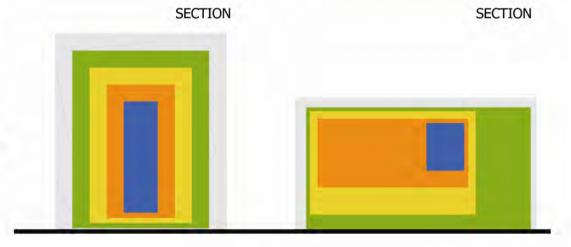
PLAN

IDEAL TEMPERATURES FOR EACH USE

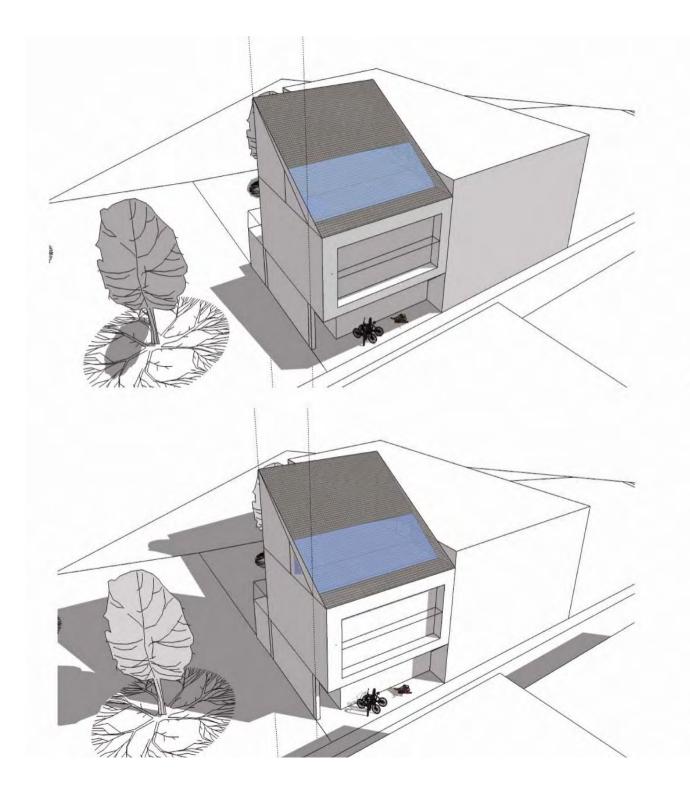


COOLER

HOTTER

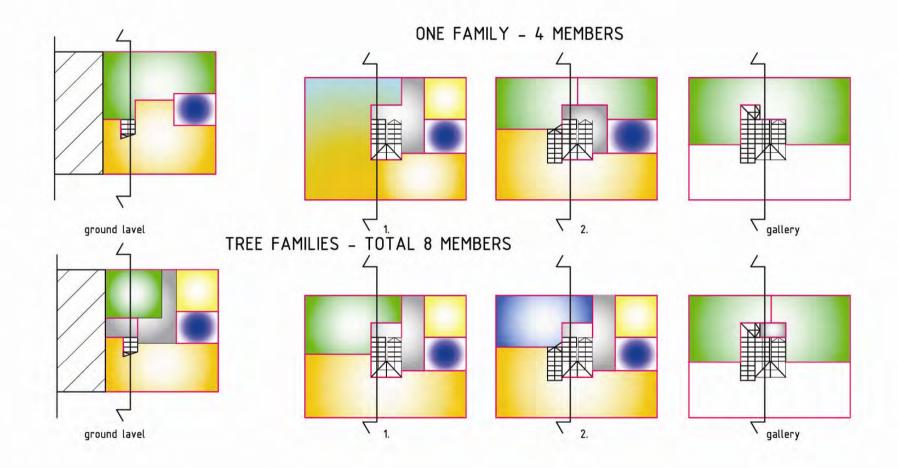


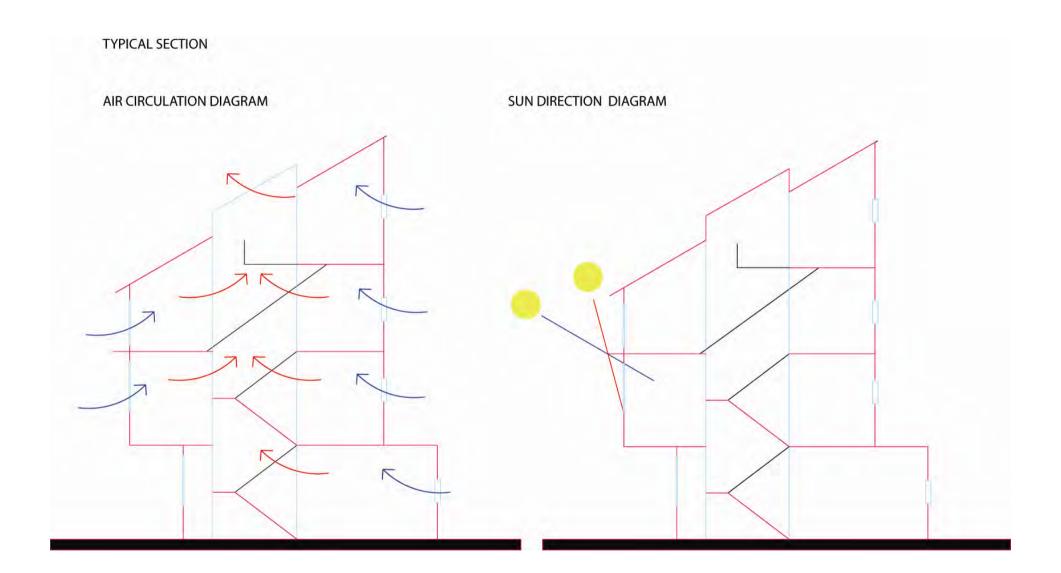
THE MATRYOSKA DOLLS STRATEGY

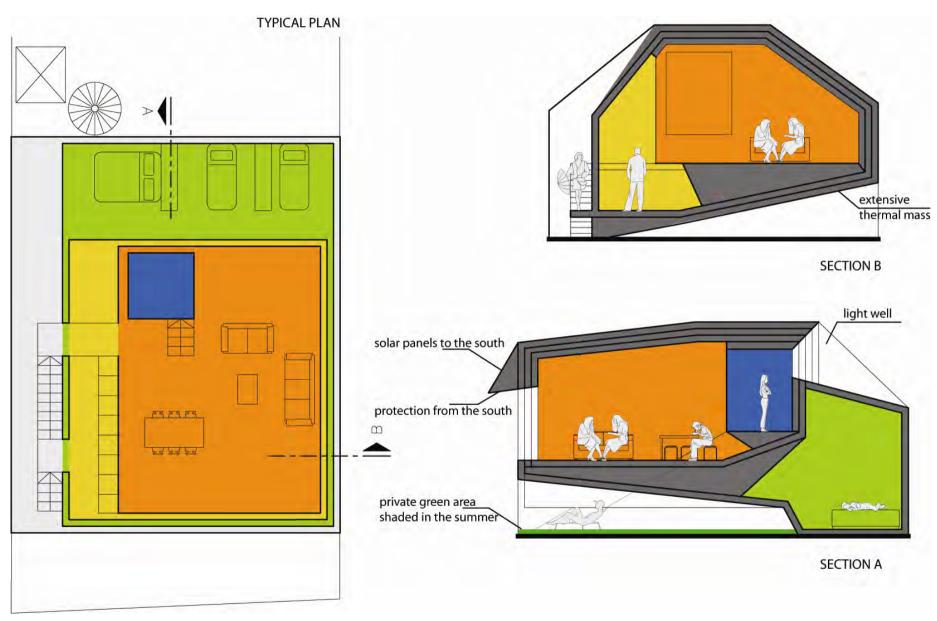


POSITION OF SHADOW ON JULY 21

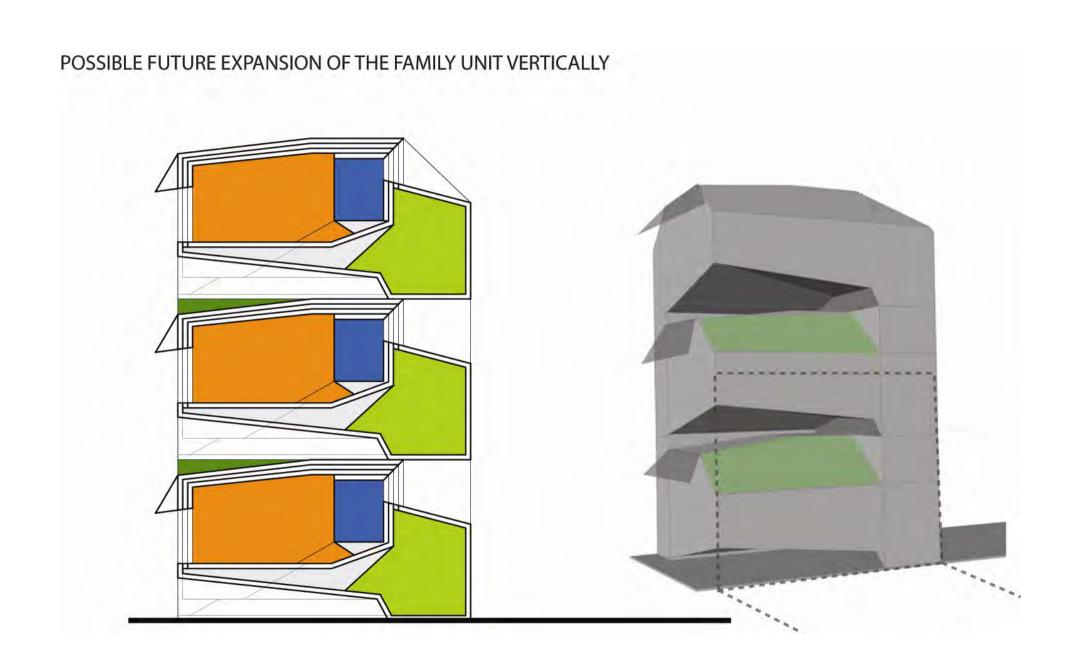
POSITION OF SHADOW ON DECEMBER 21







STREET



Materials and techniques used

- Heat pump for heating and cooling
- Solar thermal collectors (extra heat collected in summer is stored in rockbin under ground)
- Stairways space used for ventilation and cooling
- Materials:
 - Traditional brick wall with 15cm insulation
 - Double glazing windows shaded with overhangs, whose size is bound by the sun angles in winter and sumer