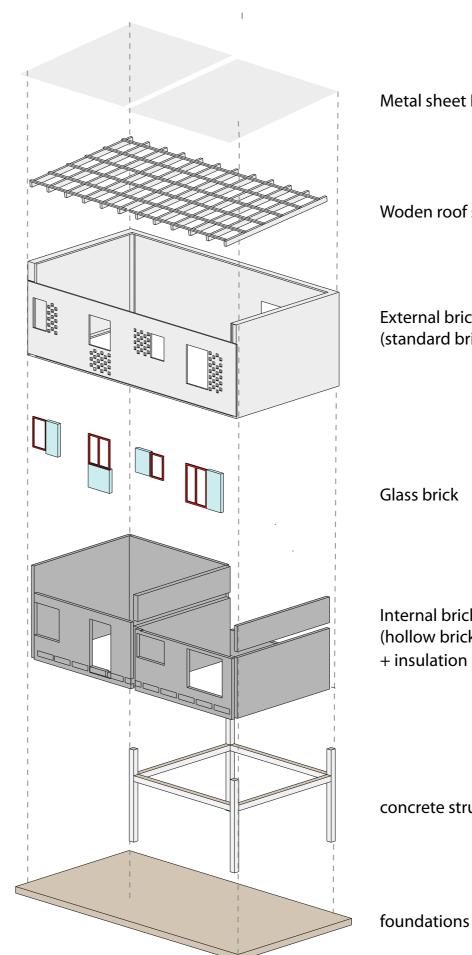


The main idea is to conceptualize a basic module of 50 square meters of affordable housing for low-income families, and to create an harmonious development of the urban complex of Masero, Lesotho's capital city.

The climate of the city varies constantly with the different seasons: hot summer and cold winter with temperatures below zero degrees. For this reason it is necessary to create housing units with locally-available insulating materials.

The initial building is made of a compact design, strategically arranged by a structure of loadbearing bricks and concrete that allows a flexible aggregation. This aggregation is possible by razing one wall without affecting the main structure. The unit can easily grow to 75 s.m. with a very low consumption of resources, and develop 3 different options. The low-rise density can grow without overcrowding.



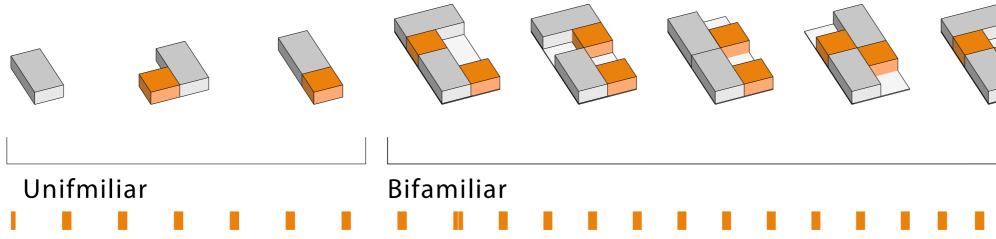
Metal sheet Roof

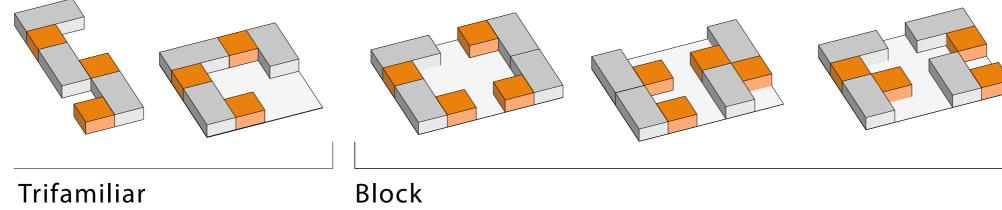
Woden roof structure

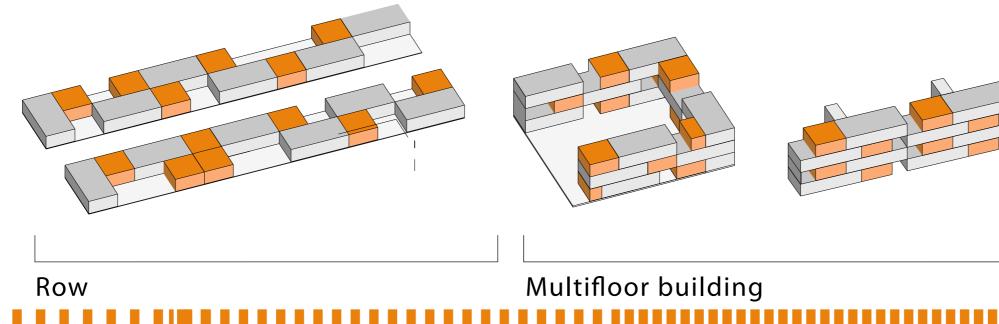
External brick layer (standard brick)

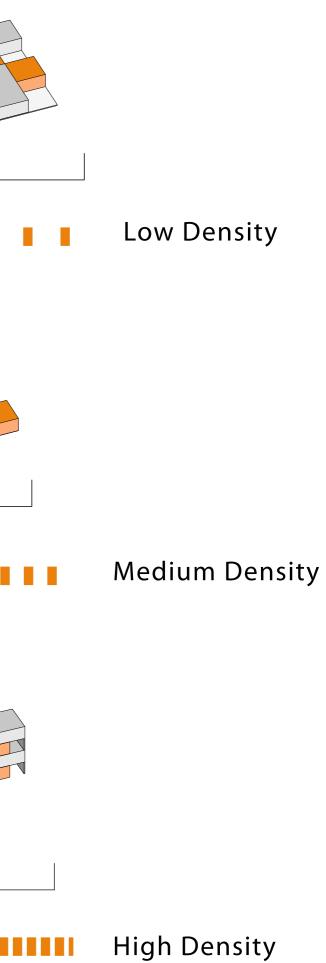
Internal brick layer (hollow brick)

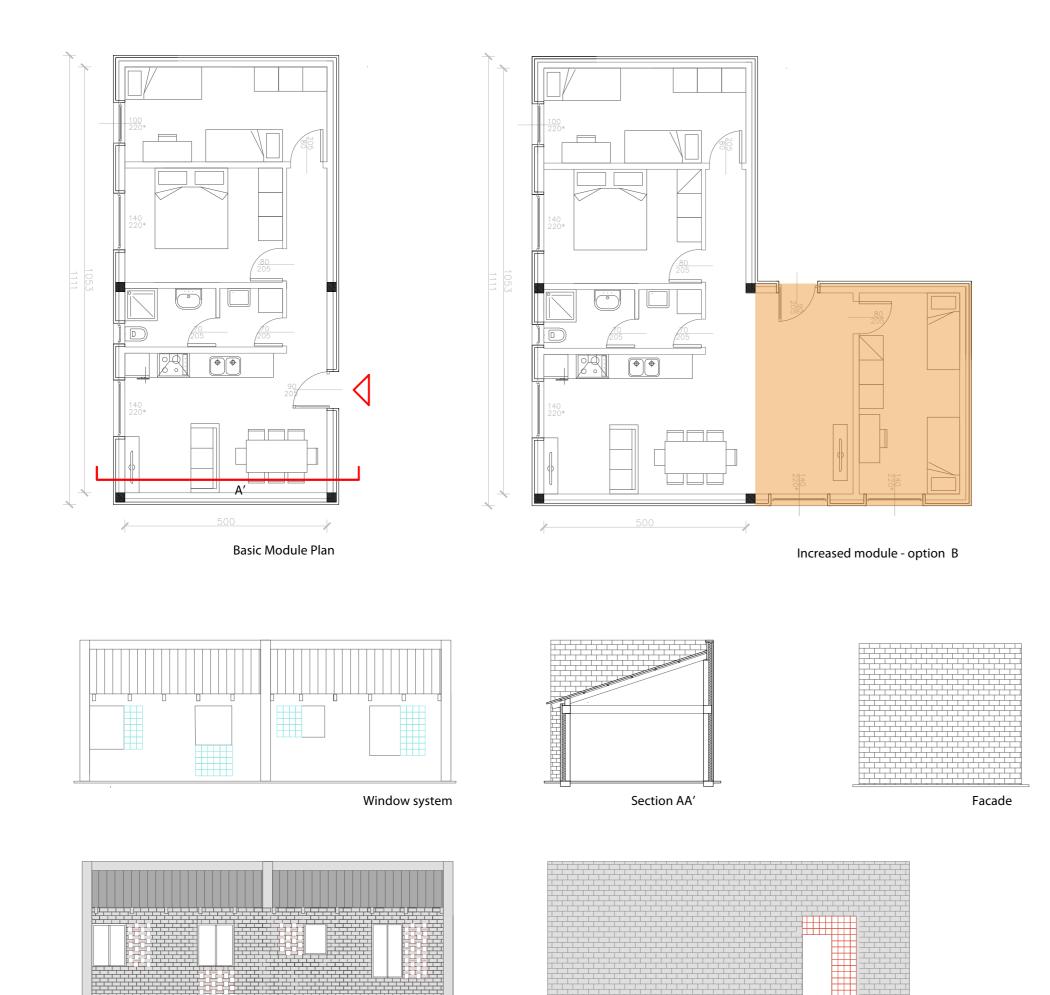
concrete structure







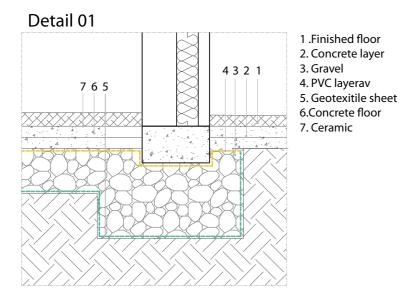




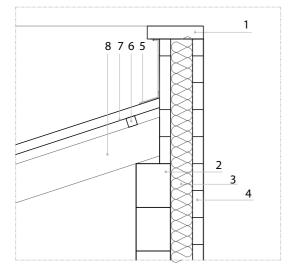
Facade

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Facade



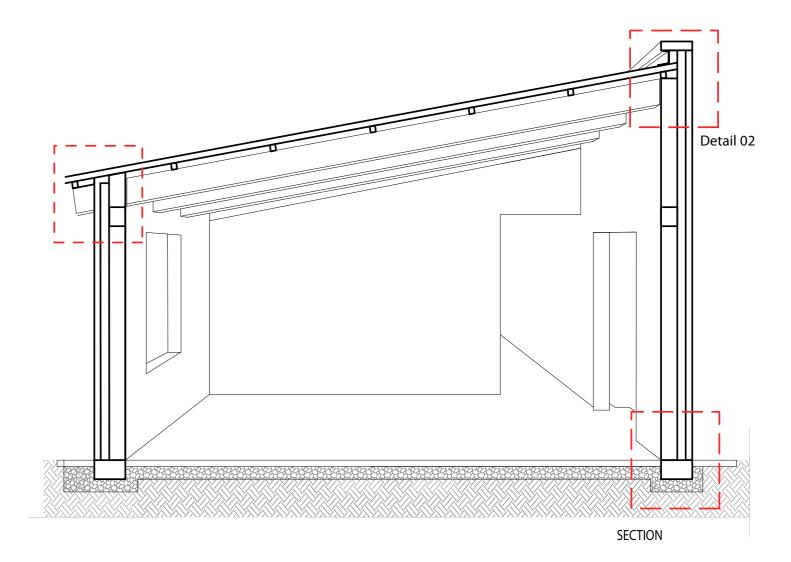
Detail 02



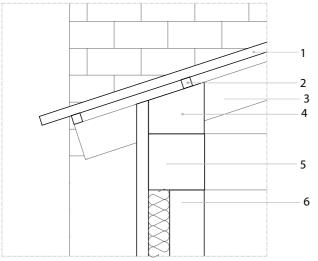
Brick cap
Hollow block
Insulation
External brick layer
Iron sheet
Wood stick

- 7. Iron sheet sandiwch+ insulation8. Wooden timber
- 0. Wooden timbe

The initial building is also conceptualized for aggregation with other units considering the various population density in respect to the needs of the urban fabric. The flexibility of the settlement solutions may vary from small housing clusters to multilevel buildings, focusing on semi-private spaces able to develop a communitarian association beyond the nuclear family unit. All of this is possible thanks to the creation of a porous, urban structure able to contain rationalized individual intention, limiting the possibility of chaos. The units will be able to accommodate the residents' diversity and be easily integrated with the existing building. Creating a location for underserved families close to the city with easy access to urban opportunities is the key to helping them to overcome poverty.



Detail 03



- 1. Iron Roof Sheet with insulation
- 2. Wooden stick
- 3. Wooden Beam
- 4. Concret curb 5. Concrete beam
- 6.Hollow block

The idea is to conceptualize a basic module of 50 m2 of affordable housing for low-income families, and to create an harmonious development of the city of Maseru.

The initial building is made of a compact design that allows a flexible aggregation. The unit can easily grow to 75 m2.. The building is also conceptualized for aggregation with other. The units will be able to accommodate the residents' diversity and be easily integrated with the existing building. Creating a location for families close to the city with access to urban opportunities is the key to helping them to overcome poverty.

Project Cost Estimate

Reinforced concrete cement foundation 2,000 LSL Concrete structure: 3,000 LSL

Hollow block brick: LSL 9,000 Esternal bricks : LSL 4,600 Glass Brick 19x19 cm LSL 38,00 each = LSL 3,800

Insulation: 4,000 LSL

Window : 2,500 LSL Door : 2,500 LSL

Wooden roof structure: timber mm76x220 LSL 140.00/m 60 m x 140 LSL: 8,400 LSL wooden stick 60x60 mm 20,00 LSL/m 60m x 20 LSL :1,200 LSL

Iron sheet Roof: 7,000

TOTAL: 48,000 LSL

