



Design Philosophy

Daylighting

- Rooftop access windows work in tandem with open stairwell to bring natural light into the house.
- Extensive windowing to the south provides optimum interior lighting.

Passive Heating & Cooling System

- Cooling Tower: Rooftop access windows provide natural ventilation by pulling air through the house and evacuating hot air out, without the use of mechanical parts.
- Extensive operable windowing in suite aids in this ventilation
- Evaporative effect and shading of the greenroof provides additional cooling benefits in the summer
- Large south-facing windows provide maximum solar gain during winter months, but are shaded for summer.

Active Heating & Cooling System

- High efficiency natural gas furnace used to minimize energy use.
- Solar domestic hot water heating provides up to 75% of yearly hot water needs
- Passive system designed to reduce need for active heating & cooling in each home.

Green Roof System

- Excellent summer insulator, curbs water run-off, prevents city-heat build-up, and discharges oxygen.
- Provides beautiful focal point to your rooftop patio.

Futureproofing

- Technologies, materials, and building practices address future sustainable living needs today.
- Flexible house layouts change with the needs of residents
- Rainwater collection off roof to provide water for landscaping and gardens

Healthy Environment

- Building materials chosen for low or no volatile organic compounds (low-VOC).
- Strawbale walls do not have a vapour barrier, but are able to 'breathe' without loss of R-value.

Eco-Density

- Provide alternative living arrangement from traditional single-family dwelling
- Integration of building design into the surrounding community