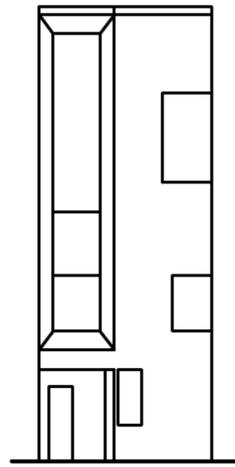
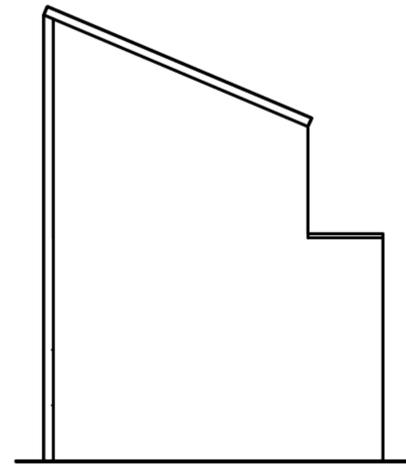


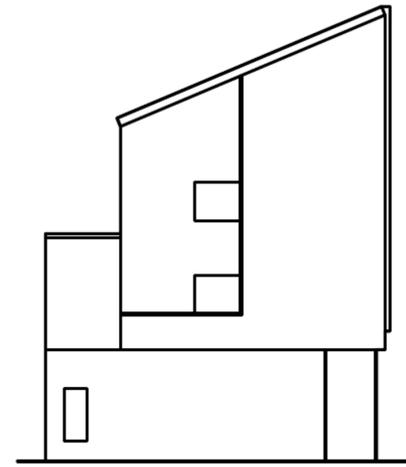
Elevations



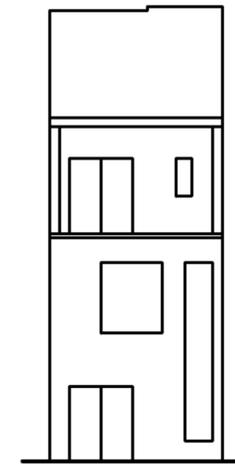
NORTH ELEVATION



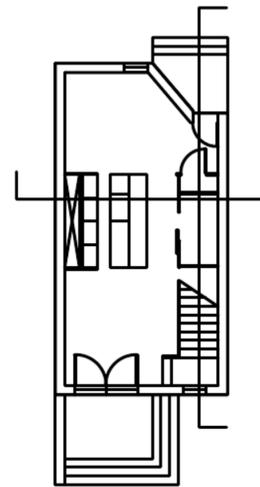
WEST ELEVATION



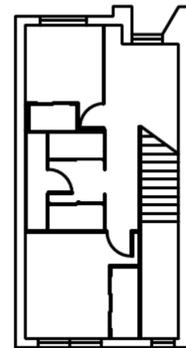
EAST ELEVATION



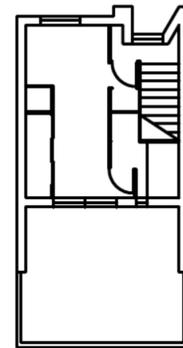
SOUTH ELEVATION



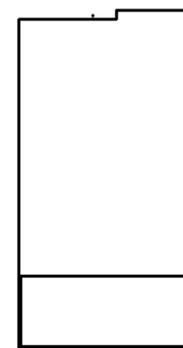
1ST FLOOR PLAN



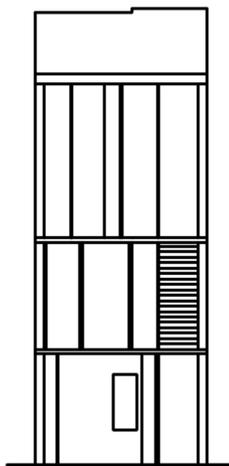
2ND FLOOR PLAN



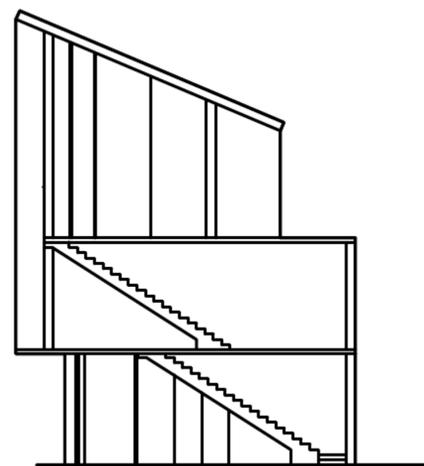
3RD FLOOR PLAN



ROOF



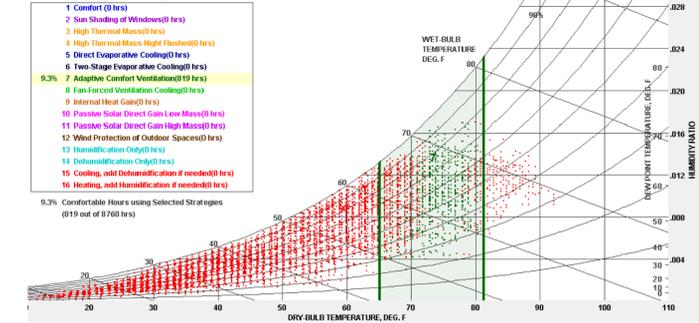
NORTH SECTION



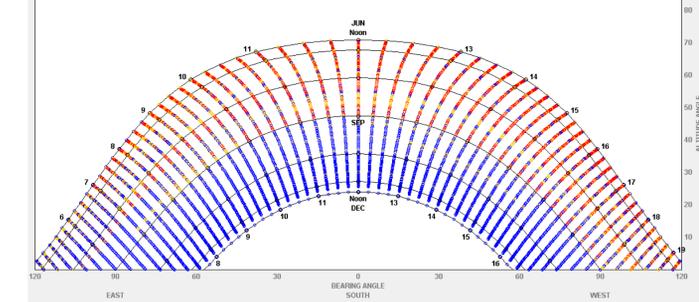
WEST SECTION

- Architect: ISA-Interface Studio Architects (Kara Medow, Brian Phillips, Deb Ketz)
- Design Concept: A prototype for high performance houses that has the ability to generate more energy than they need.
- Year of finish: 2013
- Location: 226-232 Highland Street, Roxbury, Boston
- Square Footage: 2,500 square foot
- Spaces: Dining Room, kitchen, Living Room, e Bathrooms, Storage room, 4 Bedrooms, Study Room, Roof Terrace, Backyard, Front yard and Parking Spaces.
- Design Approach: The goal for the architects was to develop a hybrid of high performance houses but with the ability of low cost. The goal was achieved by using simple massing, a tight and thick envelope with easily constructible detailing, minimal approach to systems and technological solutions.
- Idea of production: The project is a part of the E+ Green Building Program, a program that tries to develop energy-positive housing in Boston.
- Roxbury E+ is featuring solar panels to improve energy efficiency of the building. Also the thick envelope of the building and the minimal windows offer the ability for energy saving.
- The building has no flaws as it comes to the efficiency because the building has designed from the beginning as energy friendly.
- Even though that the building is using solar panels there are some spaces on the roof that are dedicated for sky light. That can help the energy saving even better as is less the use of the electricity.
- The building is designed for year-round occupancy because of its thick envelope that can work as a blocker from the outside temperature.
- The building produce its own energy and that's why it make it more environmental friendly. Actually it produce more energy than it's needed.
- The windows are designed for efficiency and energy saving. Not all of the are opening and most of the are working just to let the sky light get inside. The building has only few windows.
- The envelope of the building is super-insulated for the purpose to not let the outside temperature go inside.

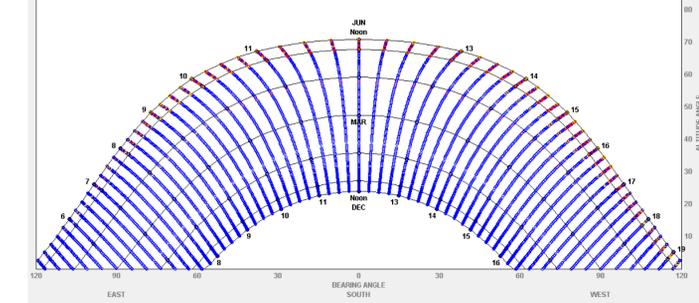
Psychometric Chart



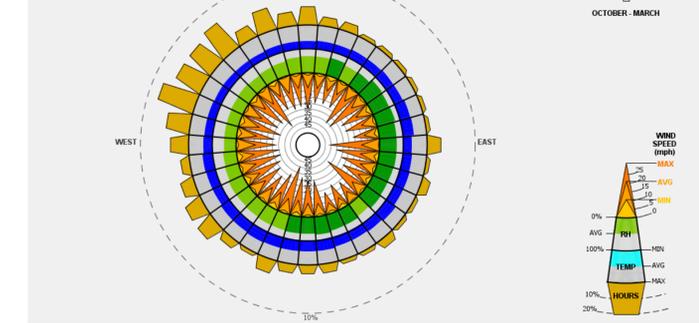
Sun Shading Summer



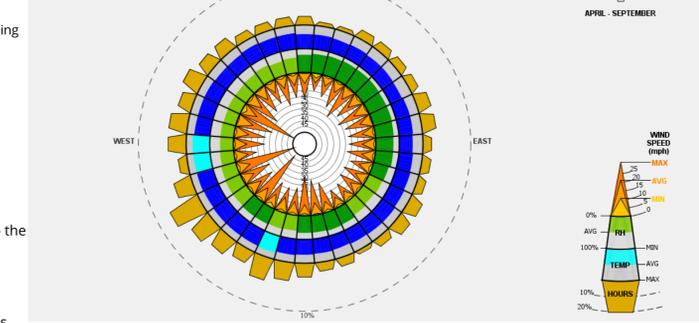
Sun Shading Winter



Wind Summer



Wind Winter





<http://www.is-architects.com/roxbury-e/4jz7v84jen7maird95b9yiliflow>
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