

# LEED for Homes Project Snapshot

## 2010 PROJECT OF THE YEAR

100k House - Postgreen

Philadelphia, PA

LEED PLATINUM

51 %

Expected Energy Savings  
Based on HERS Score

82 %

Construction Waste  
Diverted from Landfill



Photo Courtesy of: Sam Oberter

### STRATEGIES AND RESULTS

Our Goal: Build a LEED home for less than \$100 per square foot in hard construction costs (labor and materials).

Strategy: Wherever possible we reduced complexity and finish level until we had a very clean, modern, simple home. Then we focused on those areas of green building where we saw the most value . . . location, site and energy efficiency.

Result: An 1,150 SF LEED Platinum home built for just under \$100 per SF. So far this home has exceeded expectations in energy use and occupant comfort.

### EXEMPLARY PERFORMANCE

**Location and Site:** The 100k is a small home built on a previously developed, 18' x 56', urban infill site. It is less than 1/4 of a mile from the subway and even closer to several bus routes. We believe that reusing land in a dense, transit oriented neighborhood is a prerequisite to sustainable development.

**Energy Efficiency:** Using SIPs Panels, advanced air sealing techniques, high-performance casement windows and a vented rain screen, we were able to create a superior building envelope. This highly insulated and sealed envelope is the key to our excellent energy performance and low utility bills.

## LEED™ Facts

### 100k House

LEED for Homes  
Certification Awarded April 2010

Platinum **90.5\***

Innovation in Design 7.5 /11

Location & Linkages 10/10

Sustainable Sites 18.5 /22

Water Efficiency 6 /15

Energy & Atmosphere 26 /38

Materials & Resources 8.5 /16

Indoor Environmental Quality 12 /21

Awareness & Education 2 /3

\*Out of 136 possible points

### PROJECT BASICS

|                   |                      |
|-------------------|----------------------|
| Project Type      | Single Family        |
| Conditioned Space | 1,150 sq ft          |
| Bedrooms          | 2                    |
| Bathrooms         | 1                    |
| Lot Type          | Previously Developed |
| Construction Type | New Construction     |

### KEYS TO SUCCESS

|                                                |                 |
|------------------------------------------------|-----------------|
| Wall Insulation Value                          | R-25            |
| Roof Insulation Value                          | R-53            |
| Air Sealing                                    | 2.5 ACH @ 50 Pa |
| Air Filtration                                 | MERV-12         |
| Ventilation - 95% Efficient ERV                |                 |
| Hot Water - Solar Thermal                      |                 |
| Location - Dense Transit Oriented Urban Infill |                 |

### THE LEED FOR HOMES DIFFERENCE

|                                      |        |
|--------------------------------------|--------|
| Construction Waste Management Plan   | ✓ YES! |
| On-Site Performance Tests            | ✓ YES! |
| Custom Durability Planning Checklist | ✓ YES! |
| Third-Party Verified Documentation   | ✓ YES! |

### About the Project Team

Builder/Developer: Postgreen  
Architect: ISA

More Info:

[www.postgreen.com](http://www.postgreen.com)

[www.postgreenhomes.com](http://www.postgreenhomes.com)

[www.100khouse.com](http://www.100khouse.com)

### LEED for Homes Provider

MaGrann Associates

### About LEED for Homes

LEED for Homes is a voluntary, third-party certification program developed by residential experts and experienced builders. LEED promotes the design and construction of high-performance green homes, and encourages the adoption of sustainable practices throughout the building industry.



[www.usgbc.org/homes](http://www.usgbc.org/homes)

The information provided is based on that stated in the LEED® project certification submittals. USGBC does not warrant or represent the accuracy of this information. Each building's actual performance is based on its unique design, construction, operation, and maintenance. Energy efficiency and sustainable results will vary.