LEED for Homes Project Snapshot

The Slotnick Residence
370 Washington Avenue
Glencoe, IL
LEED PLATINUM

68 % Expected Energy Savings
Based on HERS Score

77 % Construction Waste
Diverted from Landfill

Photo Courtesy of: Kipnis Architecture + Planning

STRATEGIES AND RESULTS

The building has two south-facing roof areas that are set at specific angles to optimize solar benefits. A steeper roof section, angled to optimize the low winter sun, is designed for solar thermal panels, which heat the domestic hot water and radiant floor systems. The second south-facing roof is shallower, optimized for the high angle of the summer sun, which maximizes the output from PV panels to offset peak summer electricity. These two roof sections also are used to funnel 40% of the rainwater that falls on the roof into a lower roof section containing a vegetative green roof and patio. Any excess will be diverted to rainwater storage containers for a vegetable garden.

EXEMPLARY PERFORMANCE

This home is unique in its commitment to staying within the aesthetic of the surrounding community while implementing a wide range of green goals. It's one of the few LEED homes to take a non-modernist approach to its exterior, as well as being informed by traditional low-impact building philosophies. The home is classic in its style, form and proportions, yet modern in its use of materials, colors and systems. Green features include passive, natural ventilation; passive solar heating and cooling; water-efficient indoor plumbing fixtures including a waterless urinal; low and no-VOC finishes and fixtures; standing seam metal roofing; cement fiberboard siding; and prefabricated framing.

LEED™ Facts
Slotnick Residence

LEED for Homes
Certification Awarded December, 2011

Platinum	**108.5***
Innovation in Design	**8 /11**
Location & Linkages	**9/10**
Sustainable Sites	**16 /22**
Water Efficiency	**7 /15**
Energy & Atmosphere	**32 /38**
Materials & Resources	**14.5 /16**
Indoor Environmental Quality	**20 /21**
Awareness & Education	**2 /3**

**Out of136 possible points*

PROJECT BASICS

Project Type	Single Family
Conditioned Space	5,500 sq ft
Bedrooms	7
Bathrooms	4
Lot Type	Infill
Construction Type	New Construction

KEYS TO SUCCESS

On Site Renewables	Solar PV, Solar Thermal
HVAC Type	Radiant & Forced Air
Lighting	Natural, LEDs & CFLs
Roof Insulation	R-52

Home Energy Rating System (HERS) Score: 32

Building form is based on simple, passive design

Cost comparable to neighboring homes in area

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

Owner: Barry & Natalie Slotnick
www.glencoegreenhome.com

Architect: Kipnis Architecture + Planning
www.kipnisarch.com

Builder: Scott Simpson Builders
www.scottsimpsonbuilders.com

Landscape: Christy Webber
www.christywebber.com

LEED for Homes Provider: AES
www.AllianceES.org

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

LEED™ FOR HOMES