

LEED for Homes Project Snapshot

Ravenswood Residence
Chicago, IL
Burns + Beyerl Architects
LEED GOLD

47% Expected Energy Savings
 Based on HERS Score

88% Construction Waste
 Diverted from Landfill



Photo Courtesy of: Van Inwegen Photography

STRATEGIES AND RESULTS

Burns + Beyerl Architects carefully considered the home's style and scale, creating a contextual design that respects the Ravenswood neighborhood's historical past. The home features a connected floorplan with minimal circulation, and no sacrifice in luxury - including beautiful marble bathrooms and an immaculate, naturally lit kitchen - in its goals for sustainability. The finishes include recycled counters and tiles, zero-VOC paints and stains, cork flooring, and formaldehyde-free custom cabinetry throughout the gorgeous, green gatherings spaces for friends and family. The existing home on the site was deconstructed, and every component possible was salvaged.

EXEMPLARY PERFORMANCE

The custom single family home features a solar thermal panel array on the white reflective roof that reduces heat gain. The solar thermal system provides hot water, and is integrated with a geothermal heating and cooling system. It was constructed using FSC lumber from managed forests, and incorporates an exterior layer of rigid insulation, coupled with open and closed cell foam insulation, creating an efficient, tight envelope, and achieving a HERS rating of 53. There is a lighting control system and extensive LED and fluorescent lighting, as well as native landscaping that utilizes a 700-gallon underground rainwater harvesting storage tank.

LEED™ Facts

Chicago, IL

LEED for Homes
 Certification Awarded April 2012

Gold 94.5*

Innovation in Design 7/11

Location & Linkages 10/10

Sustainable Sites 15/22

Water Efficiency 11/15

Energy & Atmosphere 24/38

Materials & Resources 13.5/16

Indoor Environmental Quality 13/21

Awareness & Education 1/3

*Out of 136 possible points

PROJECT BASICS

Project Type	Single Family
Conditioned Space	6,494 sq ft
Bedrooms	7
Bathrooms	4
Lot Type	Previously Developed
Construction Type	Custom

KEYS TO SUCCESS

Wall Insulation Value	R-26 wall, R-44 roof
Window U Value	0.25
On Site Renewables	Solar hot water heater
Air Filtration	2.0 ACH @50 Pa
Energy recovery ventilator (ERV) for healthy air.	
Ground source heat pump for heating and cooling.	
Sustainable landscape including rainwater capture.	

THE LEED FOR HOMES DIFFERENCE

Construction Waste Management Plan	<input checked="" type="checkbox"/> YES!
On-Site Performance Tests	<input checked="" type="checkbox"/> YES!
Custom Durability Planning Checklist	<input checked="" type="checkbox"/> YES!
Third-Party Verified Documentation	<input checked="" type="checkbox"/> YES!

About the Project Team

Architect: Burns + Beyerl Architects
 Builder: Eriksen Armstrong Corporation
 Landscape: Prassass Landscape Studio
 Mechanicals: Sachin Anand, dBHMS
 Interior Design: McCann Associates

LEED for Homes Green Rater:
 Jason La Fleur, Eco Achievers
 Energy Rater:
 Jim Gill, eZing

LEED for Homes Provider:
 Alliance for Environmental
 Sustainability (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

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.