

LEED for Homes Project Snapshot

The ReDevelopment Group
Hill Residence
Greenwood, Indiana
LEED GOLD

40% Expected Energy Savings
 Based on HERS Score

56% Construction Waste
 Diverted from Landfill



Photo Courtesy of: The ReDevelopment Group

STRATEGIES AND RESULTS

Project team looked at using an integrated approach to creating a green home. "First Costs" of installations were weighed against ongoing costs of operation and maintenance. Solar orientation, cross ventilation and other passive techniques were considered during the design process to ensure efficiency was maximized. Diversion of construction waste, use of an "in fill" lot, specification of local materials and attention to durability detailing adds further to the environmental responsibility of the home. Results are an energy efficient home that offers low utility rates to the owners without sacrificing performance and comfort.

EXEMPLARY PERFORMANCE

Selection of an "in fill" lot offered the owners existing infrastructure, utilities and local amenities, all close by. Extreme attention to the building envelope's construction resulted in very low air infiltration rates and excellent thermal performance. Specification of low flow plumbing fixtures, dual flush toilets and native landscaping also ensure water efficiency for the everyday operation of the home. Efficient mechanical systems coupled with passive design strategies result in low usage of energy for much of the year.

LEED™ Facts

Hill Residence



LEED for Homes
 Certification Awarded 2010

Gold 88.5*

Innovation in Design 6/11

Location & Linkages 7/10

Sustainable Sites 13.5/22

Water Efficiency 7/15

Energy & Atmosphere 22/38

Materials & Resources 13/16

Indoor Environmental Quality 18/21

Awareness & Education 2/3

*Out of 136 possible points

PROJECT BASICS

Project Type	Single Family
Conditioned Space	2440 sq ft
Bedrooms	4
Bathrooms	2
Lot Type	Infill
Construction Type	New Construction

KEYS TO SUCCESS

Air Filtration	1.7ACH@50p
Passive Systems	Solar Orientation
In Fill Site Selection	
Water Efficiency	
Local Materials Sourced	
No VOC interior products and finishes	
Efficient Mechanical Systems	

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

A joint collaboration between the architect, owner and contractor made this project possible. The project team was set very early in the process for continuity, cost control and to integrate green strategies.

Architect:
 Demerly Architects
www.DemerlyArchitects.com

Contractor:
 The ReDevelopment Group Inc.
www.redev.net
 317.281.0506

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.