LEED for Homes Project Snapshot

Meadowlark Builders
THE NAUTILUS HOUSE

Ann Arbor, Michigan LEED PLATINUM

56%

Expected Energy Savings
Based on HERS Score

90%

Construction Waste Diverted from Landfill



Photo Courtesy of: Meadowlark Builders

STRATEGIES AND RESULTS

The Nautilus House sprung from a need to fix a leaky roof, and a vision for energy and water independence on a beautiful wooded building site. Form follows function in this building designed to capture sunlight, water, and air currents. Like a nautilus, it unfolds in an organic shape spiraling upward and outward on the original foundation, with existing materials and spaces re-inventing themselves within and around the structure. The owner, architect and builder worked together to create a unique vision of home that will become Michigan's second LEED Platinum residential remodel.

EXEMPLARY PERFORMANCE

All water from house collected and re-used. 600 gallon tank for a exterior shower on one side, and a 400 gallon recycled grain hopper on the other side. The shower can also be used to water plants, as can the grain hopper, and both overflow to rain gardens on the lot. The house recycles the heated air radiantly through an advanced duct system Energy Recovery Ventilator. The form and openness of the home also take advantage of another product of solar energy - wind – to create convective currents that cool the home passively. A 4 kW Solar Photovoltaic's system with Sharp fixed panels and a Sunny Boy inverter.

LEED[™] **Facts**NAUTILUS HOUSE



LEED for Homes Certification Awarded 2009

*Out of 136 possible points

Platinum	101 [*]
Innovation in Design	6/11
Location & Linkages	9/10
Sustainable Sites	19/22
Water Efficiency	13/15
Energy & Atmosphere	23.5/38
Materials & Resources	12.5/16
Indoor Environmental Quality	16/21
Awareness & Education	2 /3

PROJECT BASICS

Project Type	Single Family
Conditioned Space	4100 sq ft
Bedrooms	7
Bathrooms	2+1/2
Lot Type	Previously Developed
Construction Type	Gut Rehab

KEYS TO SUCCESS

KE13 10 30CCE33		
HVAC Type	Geothermal	
Advanced Framing	30% less lumber	
Low flow fixtures	Toilets, Sinks & Showers	
PV, 4 KW system	Grid Tied Net Metering	
Able to be changed over time for different uses.		

THE LEED FOR HOMES DIFFERENCE

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

About the Project Team

Meadowlark Builders combines artful finishes with the best in building science to create quality sustainable homes and workplaces – healthy, comfortable and energy efficient.

Based in Ann Arbor, Michigan, we are a nationally recognized award-winning building company.

LEED for Homes Provider

AES

✓ YES!

✓ YES!

✓ YES!

✓ YES!

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 FOR HOMES

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information provided is based on that stated in the LEED® project certification submittals. USGBC does warrant or represent the accuracy of this information. Each building's actual performance is based on its que design, construction, operation, and maintenance. Energy efficiency and sustainable results will vary.







