

LEED for Homes Project Snapshot

Virginia Theological Seminary
1509 N. Frazier Street
Alexandria, VA
LEED CERTIFIED

37% Expected Energy Savings
 Based on HERS Score

75% Construction Waste
 Diverted from Landfill



Photo Courtesy of: Harry Braswell, Inc.

STRATEGIES AND RESULTS

By focusing on a high efficiency HVAC system, Energy Star light fixtures, Energy Star windows, and spray foam insulation, we were able to project a 37% expected energy savings for the owner.

Other green features of the home include high efficiency plumbing fixtures, FSC certified wood and trim, low VOC paint and construction sealants and adhesives, and a permeable paver driveway to reduce runoff. We were able to divert 75% of construction waste from the landfill.

EXEMPLARY PERFORMANCE

To help preserve the existing site, we were able to leave many of the mature trees undisturbed. These trees contribute shade to the house, and along with the light gray permeable paver driveway and sidewalks, help reduce the heat island effect.

We planted a native wildflower mix around the perimeter of the site which will reduce the amount of watering, fertilizing and other maintenance required by traditional turf grass.

LEED™ Facts

VTS Faculty Home



LEED for Homes
 Certification Awarded September 2010

Certified	65*
Innovation in Design	4/11
Location & Linkages	9/10
Sustainable Sites	13/22
Water Efficiency	5/15
Energy & Atmosphere	19/38
Materials & Resources	5/16
Indoor Environmental Quality	9/21
Awareness & Education	1/3

*Out of 136 possible points

PROJECT BASICS

Project Type	Single Family
Conditioned Space	3574 sq ft
Bedrooms	3
Bathrooms	2
Lot Type	Infill
Construction Type	New Construction

KEYS TO SUCCESS

HVAC Efficiency	95%
Window U Value	.31
Lighting	EnergyStar
Roof Insulation Value	R30
99% permeable lot to prevent runoff	
High efficiency plumbing fixtures reduce water use	
MERV13 air filters to improve indoor air quality	

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

Harry Braswell, Inc. has been serving the local community for over 25 years. We are proud to be part of the first two houses to achieve LEED Certification in Alexandria, VA.

Owner - Virginia Theological Seminary
 Architect - Cole & Denny
 HVAC - Roberts Heating and Air
 Plumbing - The Gentleman Plumber
 Electrical - R&M Electric
 Roofing - Exterior Medics
 Insulation - Procoat Applications
 Painting - Hamblen Brothers
 Broad Run Recycling

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.

LEED for Homes Project Snapshot

Virginia Theological Seminary
1511 N. Frazier Street
Alexandria, VA
LEED CERTIFIED

45% Expected Energy Savings
 Based on HERS Score

75% Construction Waste
 Diverted from Landfill



Photo Courtesy of: Harry Braswell, Inc.

STRATEGIES AND RESULTS

By focusing on a high efficiency HVAC system, Energy Star light fixtures, Energy Star windows, and spray foam insulation, we were able to project a 45% expected energy savings for the owner.

Other green features of the home include high efficiency plumbing fixtures, FSC certified wood and trim, low VOC paint and construction sealants and adhesives, and a permeable paver driveway to reduce runoff. We were able to divert 75% of construction waste from the landfill.

EXEMPLARY PERFORMANCE

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Certified 67*

Innovation in Design 4/11

Location & Linkages 9/10

Sustainable Sites 12/22

Water Efficiency 5/15

Energy & Atmosphere 22/38

Materials & Resources 5/16

Indoor Environmental Quality 9/21

Awareness & Education 1/3

*Out of 136 possible points

PROJECT BASICS

Project Type	Single Family
Conditioned Space	3932 sq ft
Bedrooms	3
Bathrooms	2
Lot Type	Infill
Construction Type	New Construction

KEYS TO SUCCESS

HVAC Efficiency	95%
Window U Value	.31
Lighting	EnergyStar
Roof Insulation Value	R30
99% permeable lot	
High efficiency plumbing fixtures	
MERV13 filters	

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Construction Waste Management Plan	<input checked="" type="checkbox"/> YES!
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