



# ENERGY STAR® CERTIFIED NEW HOME

**Builder Name:** Blue Ocean Development  
**Permit Date/Number:**  
**Home Address:** 1281 Serenity Lane  
 Vienna, VA 22180

**Rating Company:** Building Performance Solutions  
**Rater Identification Number:** 8285056  
**Rating Date:** 7/17/2018  
**Version:** 3.0

## Standard Features of an ENERGY STAR Certified New Home

Your ENERGY STAR certified new home has been designed, constructed, and independently verified to meet rigorous requirements for energy efficiency set by the U.S. Environmental Protection Agency (EPA), including:

### Thermal Enclosure System

A complete thermal enclosure system that includes comprehensive air sealing, quality-installed insulation and high-performing windows to deliver improved comfort and lower utility bills.



Air Infiltration Test: Htg: 3441 Clg: 3441 CFM50

Primary Insulation Levels:

Ceiling: R-49.0

FndWall: R-17.5

AGWall: R-23.5

Floor: R-38.0

Slab: R-0.0, R-0.0

Primary Window Efficiency:

U-Value: 0.280, SHGC: 0.330

### Water Management System

A comprehensive water management system to protect roofs, walls, and foundations.



Flashing, a drainage plane, and site grading to move water from the roof to the ground and then away from the home.

Water-resistant materials on below-grade walls and underneath slabs to reduce the potential for water entering into the home.

Management of moisture levels in building materials during construction.

### Heating, Cooling, and Ventilation System

A high-efficiency heating, cooling system, and ventilation system that is designed and installed for optimal performance.



Total Duct Leakage:  
119.00 CFM25.

Duct Leakage to Outdoors:  
119.00 CFM25.

Primary Heating (System Type • Fuel Type • Efficiency):  
Electric, Htg: 9.5 HSPF. Clg: 16.0 SEER.

Primary Cooling (System Type • Fuel Type • Efficiency):  
Air conditioner, Electric, 16.0 SEER.

### Energy Efficient Lighting and Appliances

Energy efficient products to help reduce utility bills, while providing high-quality performance.



ENERGY STAR Qualified Lighting: 100%

ENERGY STAR Qualified Appliances and Fans:

Refrigerators: 1

Dishwashers: 1

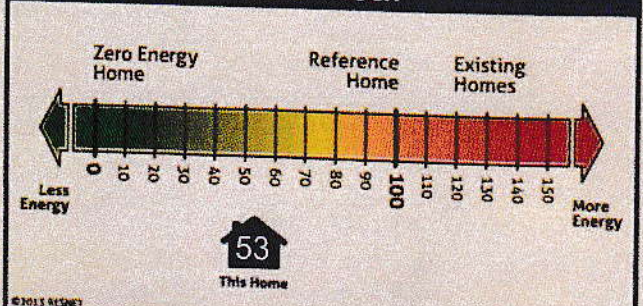
Ceiling Fans: 1

Exhaust Fans: 2

Primary Water Heater (System Type • Fuel Type • Efficiency):

Conventional, Natural gas, 0.62 EF, 75.0 Gal.

### HERS® Index



The certificate provides a summary of the major energy efficiency and other construction features that contribute to this home earning the ENERGY STAR, including its Home Energy Rating System (HERS) score, as determined through independent inspection and verification performed by a trained professional. The Home Energy Rating System is a nationally-recognized uniform measurement of the energy efficiency of homes.

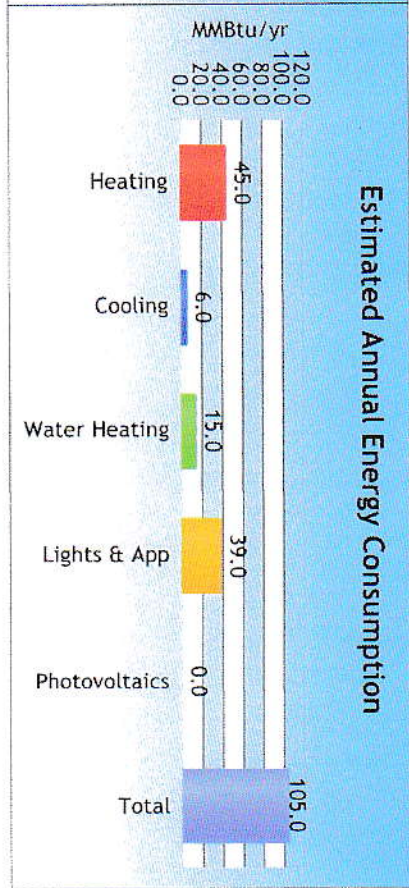
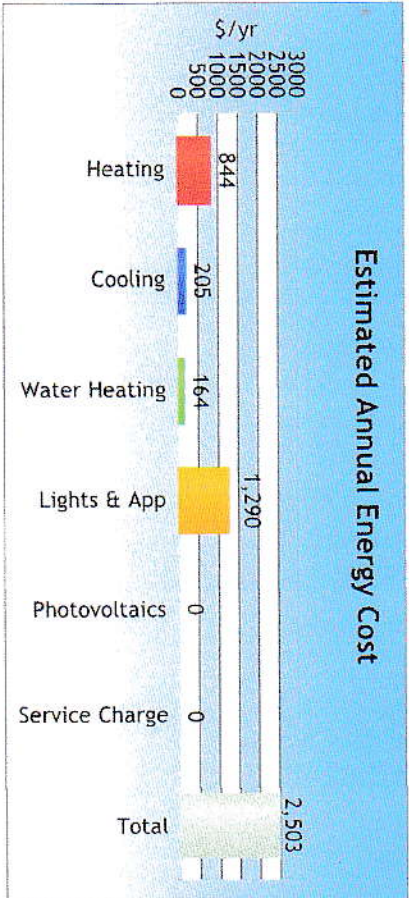
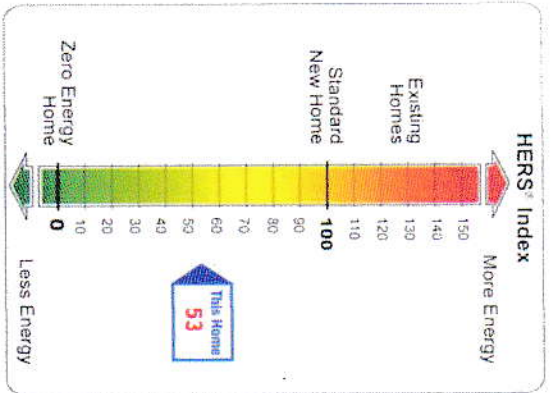
Note that when a home contains multiple performance levels for a particular feature (e.g., window efficiency or insulation levels), the predominant value is shown. Also, homes may be certified to earn the ENERGY STAR using a sampling protocol, whereby one home is randomly selected from a set of homes for representative inspections and testing. In such cases, the features found in each home within the set are intended to meet or exceed the values presented on this certificate. The actual values for your home may differ, but offer equivalent or better performance.

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Learn more at [www.energystar.gov/homefeatures](http://www.energystar.gov/homefeatures)

# HERS PERFORMANCE

# ENERGY RATING CERTIFICATE



Address: 1281 Serenity Lane, Vienna, VA 22180  
 House Type: Single-family detached  
 Cond. Area: 6375 sq. ft.  
 Rating No.: 12811  
 Issue Date: August 17, 2018  
 Certification: Inspected and Tested

Annual Estimates\*  
 Electric(kWh): 16309  
 Natural gas(Therms): 489  
 CO2 emissions(Tons): 11  
 Annual Savings\*\*: \$3258

\* Based on standard operating conditions  
 \*\* Based on a HERS 130 Index Home

Building Performance Solutions  
 Quality Assurance John Hensley  
 1934 Old Gallows Road  
 Certified Rater Jonathan Carruthers  
 Rater ID 8285056  
 Registry ID 461314725  
 Rating Date 7/17/2018

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 The Home Energy Rating Standard Disclosure for this home is available from the rating provider.