

Home Energy Rating Certificate



Rating Details

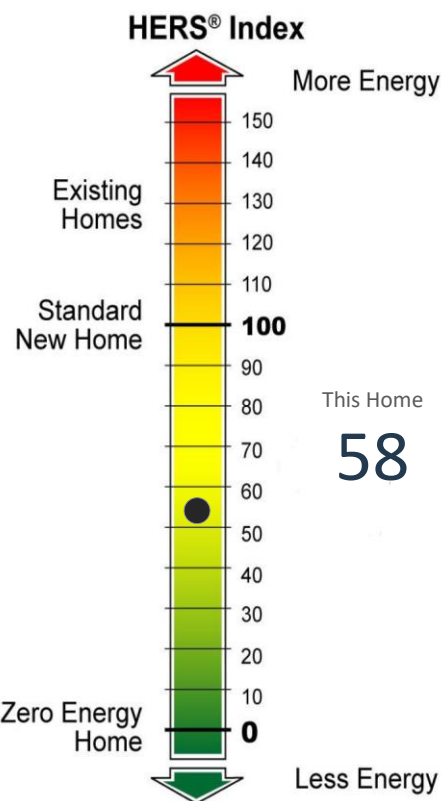
Address 619 Glascock Street
Raleigh, NC 27640
House Type SingleFamilyHouse
Cond. Area 2,731 sq ft
Rating ID 119122
Issue Date 6/11/2024
Certification Verified
Builder Boardwalk Enterprises

Rating Company

Southern Energy Management

5908 Triangle Drive
Raleigh, NC 27617
southern-energy.com

Certified Rater Joe Burgess
Rater ID 4044138
Registry ID 325577870
Rating Date 5/14/2024



Annual Estimates*

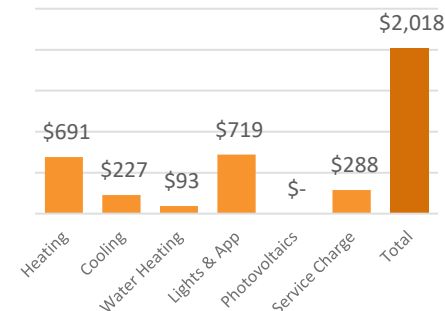
Electric (kWh)	13,068
Natural gas (Therms)	93
Propane (Gallons)	-
CO2 emissions(Tons)	8.6
Annual Savings*	\$1,724

*Based on a HERS 130 Index Home

HERS Score

58

Estimate Annual Energy Usage



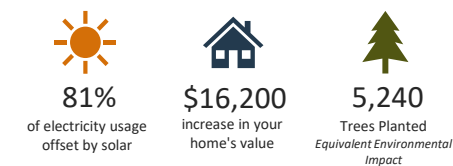
Solar Potential Analysis

Recommended System Size **8.5 kW**

Based on your projected energy usage and roof size

Approx. Annual Savings **\$1,470**

Dependent on roof orientation, pitch, and shading



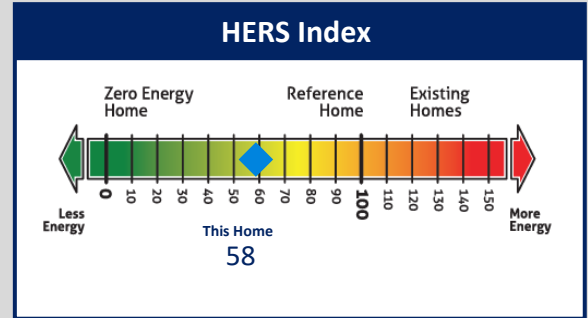
Request a Free Estimate
southern-energy.com/HERS-Solar



ENERGY STAR® CERTIFIED

NEW CONSTRUCTION

Builder/Developer: Boardwalk Enterprises
Permit Date/Number:
Home/Unit Address: 619 Glascock Street
Raleigh, NC 27640
Rating Company: Southern Energy Management
Rater ID Number: 4044138
Rating Date: 2024-05-14
Oversight By: RESNET
Program/Version Number: 3.1



This value is not intended to be used for code compliance.

Standard Features of ENERGY STAR Certified New Homes and Apartments

Your ENERGY STAR certified new home or apartment 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: 1441 CFM50 (3.29 ACH50)

Primary Insulation Levels:

Ceiling: R-44 **Floor:** R-19.0

Wall: R-15 **Slab:** R-10

Primary Window Efficiency:

U-Value: 0.27 **SHGC:** 0.18

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 or building.

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

Management of moisture levels in building materials during construction.

Heating, Cooling, and Ventilation System

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



Total Duct Leakage: **Duct Leakage to Outdoors:**
166 CFM @ 25Pa 33 CFM @ 25Pa

Primary Heating (System Type • Fuel Type • Efficiency):

Air Source Heat Pump • Electric • 7.5 HSPF2

Primary Cooling (System Type • Fuel Type • Efficiency):

Air Source Heat Pump • Electric • 14.3 SEER2

Whole-House Ventilation Type (System Type):

Air Cycler With Supplemental Fan

Energy Efficient Lighting and Appliances

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



Energy Efficient Lighting: 100%

ENERGY STAR Certified Appliances and Fans:

Refrigerators: N/A Dishwashers: N/A

Ceiling Fans: N/A Exhaust Fans: N/A

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

Hot Water Heater • Natural Gas • 0.96 UEF

About this certificate

This certificate provides a summary of the major energy efficiency and other construction features that contribute to this home or apartment earning the ENERGY STAR, as determined through independent inspection and verification performed by a trained professional. The Energy Rating Index or HERS index for this home. If reported, is calculated in accordance with ANSI/RESNET/ICC Standard 301, with any exceptions

approved by the EPA. Because the version of Standard 301 used to calculate this index may not align with the version referenced by code, this value is not intended to be used to demonstrate compliance with code. Note that when a home or apartment contains multiple performance levels for a particular feature (e.g., window efficiency or insulation levels), the predominant value is shown. Also homes and apartments may be certified

to earn the ENERGY STAR using a sampling protocol, whereby one home or apartment is randomly selected from a set for respective inspections and testing. In such cases, the features found in each home or apartment within the set are intended to meet or exceed the values presented on this certificate. The actual values for your home or apartment may differ, but offer equivalent or better performance.



An ENERGY STAR[®] Qualified Home

This certifies that the home built at

619 Glascock Street, Raleigh, NC 27640

by Boardwalk Enterprises

and verified by Southern Energy Management

meets ENERGY STAR guidelines for energy efficiency as established by the U.S. Environmental Protection Agency.

ENERGY STAR qualified homes protect the environment by using less energy.

HERS Index: 58

June 11, 2024

www.energystar.gov

RESNET Home Energy Rating

For home located at: 619 Glascock Street

City: Raleigh State: NC

1.

☒

The Rater or Rater's employer is receiving a fee for providing the rating on this home.
2.

☐

In addition to the rating, the Rater or Rater's employer has also provided the following consulting services for this home.

☐ A. Mechanical system design

☐ B. Moisture control or indoor air quality consulting

☐ C. Performance testing and/or commissioning other than required for the rating itself

☐ D. Training for sales or construction personnel

☐ E. Other (specify below)

3.

☐

The Rater or Rater's employer is:

☐ A. The seller of this home or their agent

☐ B. The mortgagor for some portion of the financial payments on this home

☐ C. An employee, contractor or consultant of the electric and/or natural gas utility serving this home

4.

☒

The Rater or Rater's employer is a supplier or installer of products, which may include:

HVAC Systems

Thermal Insulation Systems

Air sealing of envelope or duct systems

Windows or window shading systems

Energy efficient appliances

Construction (builder, developer, construction contractor, etc.)

Other (specify below):

Renewable Energy and Energy Management Systems; Punchlist Services

Installed in this home by:

OR

is in the business of:

☐ Rater

☐ Employer

☐ Rater

☐ Employer

☐ Rater

☐ Employer

☐ Rater

☐ Employer

☐ Rater

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☐ Rater

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☐ Rater

☐ Employer

☐ Rater

☒ Employer

I attest that the above information is true and correct to the best of my knowledge. As a Rater or Rating Provider I abide by the rating quality control provisions of the Mortgage Industry National Home Energy Rating Standard as set forth by the Residential Energy Services Network (RESNET). The national rating quality control provisions of the rating standard are contained in Chapter One 4.C.8. of the standard and are posted at http://resnet.us/standards/RESNET_Mortgage_Industry_National_HERS_Standards.pdf.

Joe Burgess

Rater's Printed Name

Joe Burgess

Rater's Signature

325577870

Certification #

June 11, 2024

Date

HOW TO READ THE HERS® INDEX

With home energy costs continuing to increase, it only makes sense to find out how energy efficient the home you're buying really is. The U.S. Department of Energy estimates that houses built in line with today's energy code use 30-40% less energy than older homes; however by evaluating your home's HERS index, you can better assess the efficiency of the home you're buying.

A Home Energy Rating involves an analysis of a home's efficiency through a comprehensive plan review and several on-site inspections during the construction of your home. Upon completion of the home's plan review, an independent third party Home Energy Rater will work with the builder to identify energy efficiency improvements. The Rater then conducts on-site inspections which include a blower door test (to test whole-house air infiltration) and a duct test (to test for unwanted air leakage in the duct system). The results of these tests, along with inputs derived from the comprehensive plan review, are used to generate the HERS Index for the home.

The home energy rating is a widely recognized tool in the mortgage industry. Home energy ratings can also be used in a variety of ways in the housing industry. Since a rating quantifies the energy performance of a home, the HERS Index provides a means to compare the relative energy efficiency of different homes.

A new home built to the 2006 IECC would score a 100. One point in either direction indicates the home is either 1% more or less efficient than the 2006 IECC reference design home. Please reference your HERS certificate for more information regarding your home's individually rated HERS Index. For more information on the Home Energy Rating System, please visit: www.resnet.us

