



# ENERGY STAR® CERTIFIED NEW CONSTRUCTION

**Builder/Developer Name:** Buchanan Construction, LLC

**Permit Date/Number:**

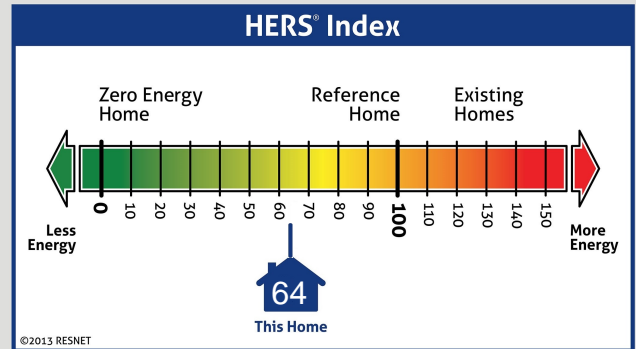
**Home/Unit Address:** 97 Emerald Necklace Dr  
Asheville, NC 28803

**Rating Company:** Eco-Sense

**Rater Identification Number:** 9357399

**Rating Date:** 2020-08-31

**ENERGY STAR Program/Version Number:** 3.0



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 Test:** Htg: 3.24 Clg: 3.24 ACH50

**Primary Insulation Levels:**

**Ceiling: R-30.0      FndWall: R-12.1      Slab: R-0.0, R-0.0**

**AGWall: R-19.0**

**Primary Window Efficiency:**

**U-Value: 0.270, 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 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:**  
312.00 CFM25

**Duct Leakage to Outdoors:**  
126.00 CFM25

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

**Fuel-fired air distribution, Natural gas, 96.0 AFUE.**

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

**Air conditioner, Electric, 14.0 SEER.**

### 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: 1      Dishwashers: 1**

**Ceiling Fans: 0      Exhaust Fans: 0**

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

**Instant water heater, Natural gas, 0.96 EF, 0.0 Gal.**

#### About this certificate

The 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 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 representative 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.

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