

Home Energy Rating Certificate

Final Report

Rating Date: 2023-04-28

Registry ID:

HERS® Index Score:

-10

Your home's HERS score is a relative performance score. The lower the number, the more energy efficient the home. To learn more, visit www.hersindex.com

Annual Savings

\$6,022

*Relative to an average U.S. home

Home:

Builder:

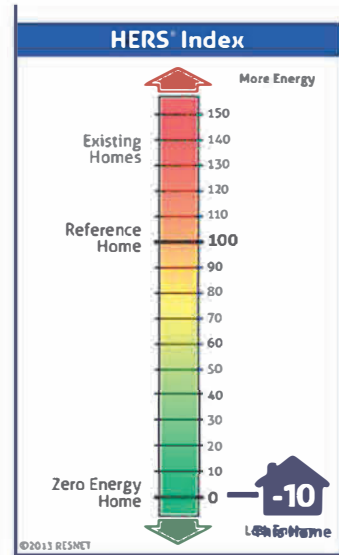
ABUEVA BUILDERS, LLC

Your Home's Estimated Energy Use:

	Use [MBtu]	Annual Cost
Heating	11.6	\$501
Cooling	2.8	\$133
Hot Water	1.6	\$71
Lights/Appliances	21.5	\$954
Service Charges		\$84
Generation (e.g. Solar)	47.8	-\$1,658
Total:	37.5	\$84

This home meets or exceeds the criteria of the following:

ENERGY STAR v3.2
ENERGY STAR v3.1
ENERGY STAR v3
2015 Michigan Energy Code



Home Feature Summary:

Home Type:	Single family detached
Model:	Custom
Community:	Custom
Conditioned Floor Area:	2,832 ft ²
Number of Bedrooms:	2
Primary Heating System:	Air Source Heat Pump • Electric • 10.8 HSPF
Primary Cooling System:	Air Source Heat Pump • Electric • 14.3 SEER
Primary Water Heating:	Residential Water Heater • Electric • 3.88 Energy Factor
House Tightness:	274 CFM50 (0.50 ACH50)
Ventilation:	127 CFM • 127 Watts (Default) • ERV
Duct Leakage to Outside:	11 CFM @ 25Pa (0.39 / 100 ft ²)
Above Grade Walls:	R-50
Ceiling:	Attic, R-87
Window Type:	U-Value: 0.182, SHGC: 0.3
Foundation Walls:	R-28
Framed Floor:	R-50

Rating Completed by:

Energy Rater: Jamison Lenz
RESNET ID: 3892781

Rating Company: Lenz Consultants

616-308-7702

Rating Provider: Energy Efficient Homes Midwest

Jamison Lenz, Certified Energy Rater
Digitally signed: 6/6/23 at 8:34 PM





ENERGY STAR® CERTIFIED NEW CONSTRUCTION

Builder/Developer: ABUEVA BUILDERS, LLC

Permit Date/Number:

Home/Unit Address:

Rating Company: Lenz Consultants

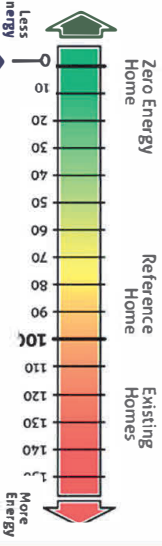
Rater ID Number: 38922781

Rating Date: 2023-04-28

Oversight By: RESNET

Program/Version Number: 3.1

HERS® Index



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: 274 CFM50 (0.50 ACH50)

Primary Insulation Levels:

Ceiling: R-87 Floor: R-50

Wall: R-50 Slab: R-30

Primary Window Efficiency:

U-Value: 0.182 SHGC: 0.3

Water Management System

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



Flashing, a drainage plane, and sile 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:
163 CFM @ 25Pa (Post- 11 CFM @ 25Pa (0.39 / 100 ft²)

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

Air Source Heat Pump • Electric • 10.8 HSPF

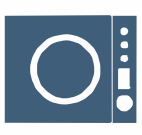
Primary Cooling (System Type • Fuel Type • Efficiency):

Air Source Heat Pump • Electric • 14.3 SEER

Whole-House Ventilation Type (System Type):
Balanced

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):

Residential Water Heater • Electric • 3.88 Energy Factor

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.

Indoor airPLUS Qualified Home

This home built at
was verified by
Lenz Consultants
to meet Indoor airPLUS construction
specifications as established
by the
U.S. Environmental Protection Agency.



Indoor airPLUS qualified homes are designed to contribute to improved indoor air quality.

2023-04-28



Indoor airPLUS Features

- Moisture and Mold Control
- Radon Resistant Construction
- Pest Barriers
- Effective Heating, Ventilating, and Air-Conditioning Systems
- Safe Combustion
- Healthier Building Materials

Not all features are required in all cases. To learn more about indoor air quality features in your home, ask your builder to review the Indoor airPLUS verification checklist with you, or visit www.epa.gov/indoorairplus.



ZERO

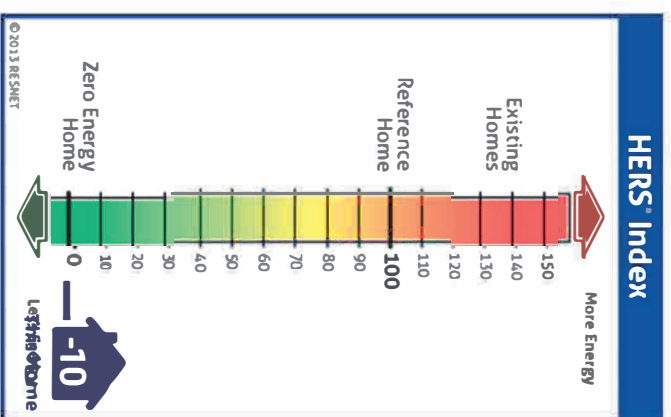
ENERGY READY HOME
U.S. DEPARTMENT OF ENERGY

YOUR HOME WAS DESIGNED, ENGINEERED, AND CONSTRUCTED IN CONFORMANCE TO U.S. DEPARTMENT OF ENERGY (DOE) GUIDELINES FOR EXTRAORDINARY LEVELS OF EXCELLENCE AND QUALITY.

Builder: ABUEVA BUILDERS, LLC
Inspector: Lenz Consultants
Date: 2023-04-28
HERS Score: -10
ZERH Target Score: 52

THIS HOME MEETS OR EXCEEDS THE MINIMUM CRITERIA FOR THE FOLLOWING:
ENERGY STAR V3.2
ENERGY STAR V3.1
ENERGY STAR V3
2015 MICHIGAN ENERGY CODE

SAM RASHKIN, CHIEF ARCHITECT
BUILDING TECHNOLOGIES
U.S. DEPARTMENT OF ENERGY



Ekotrope RATER - Version 4.1.0.3171

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