

# Home Energy Rating Certificate

Projected Report  
Based on Plans

Rating Date: 2023-04-17

Registry ID:

Ekotrope ID: L9MkjBzL



## HERS® Index Score:

# 69

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](http://www.hersindex.com)

## Annual Savings

# \$981

\*Relative to an average U.S. home

## Home:

139 Serina Woods Drive  
Lillington, NC 27546

## Builder:

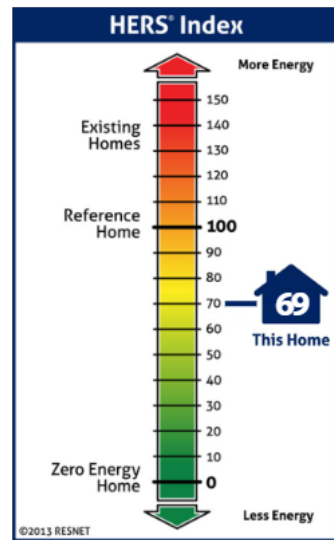
Dustin Blackwell/Weaver Homes

## Your Home's Estimated Energy Use:

	Use [MBtu]	Annual Cost
Heating	13.9	\$434
Cooling	3.9	\$125
Hot Water	4.0	\$127
Lights/Appliances	16.6	\$528
Service Charges		\$168
Generation (e.g. Solar)	0.0	\$0
<b>Total:</b>	<b>38.4</b>	<b>\$1,383</b>

## This home meets or exceeds the criteria of the following:

2009 International Energy Conservation Code



## Home Feature Summary:

Home Type:	Single family detached
Model:	Thurston Farms
Community:	Lillington
Conditioned Floor Area:	1,190 ft <sup>2</sup>
Number of Bedrooms:	1
Primary Heating System:	Air Source Heat Pump • Electric • 9 HSPF
Primary Cooling System:	Air Source Heat Pump • Electric • 15 SEER
Primary Water Heating:	Residential Water Heater • Electric • 0.99 Energy Factor
House Tightness:	3 ACH50
Ventilation:	60 CFM • 60 Watts (Default) • ERV
Duct Leakage to Outside:	30 CFM @ 25Pa (2.52 / 100 ft <sup>2</sup> )
Above Grade Walls:	R-20
Ceiling:	Vaulted Roof, R-33
Window Type:	U-Value: 0.32, SHGC: 0.16
Foundation Walls:	N/A
Framed Floor:	N/A

## Rating Completed by:

**Energy Rater:** Dan Aaron  
RESNET ID: 9273850

**Rating Company:** Home Energy Check LLC  
770 Diamondhead Dr Pinehurst, NC 28374  
910-986-6913

**Rating Provider:** Building Efficiency Resources  
PO Box 1769 Brevard, NC 28712  
800-399-9620

Dan Aaron, Certified Energy Rater  
Digitally signed: 4/19/23 at 11:08 AM



Energy savings calculated without modifications to the energy model. (As Modeled)

Ekotrope RATER - Version:4.1.0.3141  
The Energy Rating Disclosure for this home is available from the Approved Rating Provider.  
This report does not constitute any warranty or guarantee.

# North Carolina 2018 - R402.1.5 Total UA

**Property**

139 Serina Woods Drive  
Lillington, NC 27546  
Model: Thurston Farms  
Community: Lillington

**Organization**

Home Energy Check LLC  
Dan Aaron  
910-986-6913

**Inspection Status**

Results are projected

139 Serina Woods Drive  
139 Serina Woods Dr

**Builder**

Dustin Blackwell/Weaver  
Homes

**This report is based on a proposed design and does not confirm field enforcement of design elements.**

## Building UA

Elements	NC Reference	As Designed
Ceilings	39.4	45.5
Above-Grade Walls	139.5	124.0
Windows, Doors and Skylights	97.1	71.9
Slab Floor:	86.7	115.0
Framed Floors	0.0	0.0
Foundation Walls	0.0	0.0
Rim Joists	0.0	0.0
<b>Overall UA (Design must be equal or lower):</b>	<b>362.7</b>	<b>356.4</b>

## Requirements

✓	R402.1.5	Total UA alternative compliance passes by 1.7%. The proposed home meets the UA requirement by 1.7%
✓	402.3.2	Average SHGC: 0.16 Max SHGC: 0.30 Average SHGC of 0.16 is greater than the maximum of 0.30.
✓	R402.4.2.2	Air Leakage Testing Air sealing is 0.16 CFM50 / ft <sup>2</sup> Shell Area. It must not exceed 0.30 CFM50 / ft <sup>2</sup> Shell Area.
✓	R402.5	Area-weighted average fenestration SHGC Area-weighted average fenestration SHGC is 0.17. The maximum allowed value is [No Limit].
✓	R402.5	Area-weighted average fenestration U-Factor
✓	R404.1	Lighting Equipment At least 75.0% of fixtures shall be high-efficacy lamps, currently 100.0% are high-efficacy.
✓	Mandatory Checklist	Mandatory code requirements that are not checked by Ekotrope must be met. 2015 IECC Mandatory Checklist must be checked as complete.
✓	R403.3.1	Duct Insulation Duct insulation meets the requirements specified in North Carolina 2018 Code Section 403.3.1.
✓	403.3.3	Duct Testing

**Design exceeds requirements for North Carolina 2018 Prescriptive compliance by 1.7%.**

Name: Dan Aaron

Signature: 

Organization: Home Energy Check LLC

Digitally signed: 4/19/23 at 11:08 AM

### Ekotrope RATER - Version 4.1.0.3141

North Carolina 2018 Prescriptive compliance results calculated using Ekotrope RATER's energy and code compliance algorithm, including appropriate amendments. Ekotrope RATER is a RESNET Accredited HERS Rating Tool. All results are based on data entered by Ekotrope users. Ekotrope disclaims all liability for the information shown on this report.

# 139 Serina Woods Drive

Lillington, NC 27546

Builder: Dustin Blackwell/Weaver Homes

Model: Thurston Farms Community: Lillington


This report is based on a proposed design and does not confirm field enforcement of design elements.

**THIS HOME IS CERTIFIED TO MEET THE NORTH CAROLINA  
2018 ENERGY CODE**

## Building Features

<b>Ceiling</b> Vaulted Roof, R-33	<b>Duct</b> Supply R-8.0, Return R-8.0
<b>Above Grade Walls</b> R-20	<b>Duct Leakage to Outside</b> 30 CFM @ 25Pa (2.52 / 100 ft <sup>2</sup> )
<b>Foundation Walls</b> N/A	<b>Total Duct Leakage</b> 50 CFM @ 25Pa (Post-Construction)
<b>Framed Floor</b> N/A	<b>Heating</b> Air Source Heat Pump • Electric • 9 HSPF
<b>Slab</b> R-0.0 Perimeter, R-0.0 Under	<b>Cooling</b> Air Source Heat Pump • Electric • 15 SEER
<b>Infiltration</b> 3 ACH50	<b>Water Heating</b> Residential Water Heater • Electric • 0.99 Energy Factor
<b>Window</b> U-Value: 0.32, SHGC: 0.16	

As a 3rd party extension of the code jurisdiction utilizing these reports, I certify that this energy code compliance document has been created in accordance with the requirements of Chapter 4 of the adopted International Energy Conservation Code based on HARNETT County. If rating is Projected, I certify that the building design described herein is consistent with the building plans, specifications, and other calculations submitted with the permit application. If rating is Confirmed, I certify that the address referenced above has been inspected/tested and that the mandatory provisions of the IECC have been installed to meet or exceed the intent of the IECC or will be verified as such by another party.

Name: Dan Aaron Signature:   
Organization: Home Energy Check LLC Digitally signed: 4/19/23 at 11:08 AM

Ekotrope RATER - Version 4.1.0.3141

North Carolina 2018 Certificate compliance results calculated using Ekotrope RATER's energy and code compliance algorithm, including appropriate amendments.  
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# Energy Code Inspection Checklist



## Property

139 Serina Woods Drive  
Lillington, NC 27546  
Model: Thurston Farms  
Community: Lillington

## Organization

Home Energy Check LLC  
Dan Aaron  
910-986-6913

## Inspection Status

Results are projected

139 Serina Woods Drive  
139 Serina Woods Dr

## Builder

Dustin Blackwell/Weaver  
Homes

## General Building Information

Conditioned Area (sq ft)	1,190
Conditioned Volume (cubic ft)	14,899
Insulated Shell Area (sq ft)	4,583.2

The building energy model in Ekotrope reflects the building assemblies and energy features listed below. Sometimes energy features will change in the field from what has been modeled. The inspection process should identify any changes and ensure that the home continues to meet the applicable energy code.

## Slab



Name: Slab(1,190 s.f., 170.1 ft. exterior perimeter)  
R-0 perimeter insulation, R-0 under slab insulation.

## Framed Floor

None Present

## Foundation Wall

None Present

## Above Grade Wall



Name: 1 to Garage (486.4 s.f.)  
R-0 continuous insulation, R-12.95 cavity insulation  
Insulation Grade: I



Name: 1 to Ambient (1,370 s.f.)  
R-0 continuous insulation, R-20.35 cavity insulation  
Insulation Grade: I



Name: Knee to Attic (204 s.f.)  
R-0 continuous insulation, R-12.95 cavity insulation  
Insulation Grade: I

## Rim Joist

None Present

# Energy Code Inspection Checklist



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## Ceiling / Roof

Name: Whole House Vault (1,332.8 s.f.)  
R-0 continuous insulation, R-33.3 cavity insulation  
Insulation Grade: I

## Opaque Door

Name: Doors to Garage (3) (80.4 s.f.)  
R: 8.00

## Glazing

Name: 1 FW unsh (2020) (16 s.f.), U: 0.320, SHGC: 0.16, Orientation: NORTH\_WEST

Name: 1 LW unsh (2020) (8 s.f.), U: 0.320, SHGC: 0.16, Orientation: NORTH\_EAST

Name: 1 BW unsh (2852) (96.6 s.f.), U: 0.320, SHGC: 0.16, Orientation: SOUTH\_EAST

Name: 1 BW unsh (2020) (20 s.f.), U: 0.320, SHGC: 0.16, Orientation: NORTH\_EAST

Name: 1 BD unsh (3068) (20 s.f.), U: 0.320, SHGC: 0.16, Orientation: NORTH\_EAST

Name: 1 RW unsh (2020) (8 s.f.), U: 0.320, SHGC: 0.16, Orientation: SOUTH\_WEST

## Skylight

Name: Living Room (12 s.f.), R: 2.273, SHGC: 0.26, Orientation: NORTH\_EAST

Name: Office (6 s.f.), R: 2.273, SHGC: 0.26, Orientation: SOUTH\_WEST

## Mechanical Ventilation

Mechanical ventilation system rated for, and capable of, providing continuous ventilation.  
System shall include automatic timing controls.  
System type: ERV, 24 hrs/day, 60 Watts (Default)



# Energy Code Inspection Checklist



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139 Serina Woods Dr

## Builder

Dustin Blackwell/Weaver  
Homes

## Mechanical Equipment

- Water Heating (1) • Electric • 100% Hot Water Load @ 0.99 Energy Factor
- Mini Split • Electric • 100% Heating Load @ 9 HSPF, 100% Cooling Load @ 15 SEER

## Air Leakage Control

- Test Status: Blower-door tested  
House is air-sealed as to achieve 745 CFM50 (3.00 ACH50) or less at final blower-door test.

### Infiltration Requirements for IECC in Climate Zone 4

- 2009 IECC Infiltration limit for the design home is 7 ACH50.
- 2012 IECC Infiltration limit for the design home is 3 ACH50.
- 2015 IECC Infiltration limit for the design home is 3 ACH50.
- 2018 IECC Infiltration limit for the design home is 3 ACH50.
- 2021 IECC Infiltration limit for the design home is 5 ACH50.

Note: Under IECC 2021, this home is considered to be in Climate Zone 3

## Duct Leakage

### Duct System 1

- NOT entirely within conditioned space, testing required
- Leakage to Outside specified as: 30 CFM @ 25Pa (2.52 / 100 ft<sup>2</sup>)
- Total Leakage specified as: 50 CFM @ 25Pa (Post-Construction)

# Energy Code Inspection Checklist



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## Duct Leakage Code Requirements for IECC

### 2009 IECC:

Postconstruction Leakage Test: Duct Leakage to Outdoors  $\leq 8$  CFM25 / 100 sq ft CFA.

Rough in Test with AHU: Total Duct Leakage  $\leq 6$  CFM25 / 100 sq ft CFA.

Rough in Test without AHU: Total Duct Leakage  $\leq 4$  CFM25 / 100 sq ft CFA.

### 2012 IECC Mandatory, 2015, 2018, & 2021 IECC Prescriptive Paths:

Postconstruction Leakage Test: Total Duct Leakage  $\leq 4$  CFM25 / 100 sq ft CFA.

Rough in Test with AHU: Total Duct Leakage  $\leq 4$  CFM25 / 100 sq ft CFA.

Rough in Test without AHU: Total Duct Leakage  $\leq 3$  CFM25 / 100 sq ft CFA.

\* Note: IECC 2021 requires Total Duct Leakage  $\leq 8$  CFM25 / 100 sq ft CFA when all ducts and air handlers are within the building thermal envelope.

### 2015 and 2018 IECC Performance Paths (Cost Compliance):

Leakage testing is required UNLESS all ducts and air handlers are located entirely within the thermal envelope.

There is no pass/fail threshold for duct leakage on the performance path.

## Project Notes

DGA 4/17/2023 Unremarkable small stud up renovation/remodel. Projected Model for Code Official Approval.

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 Dustin Blackwell/Weaver Homes

## General Building Information

Number Of Bedrooms	1
Number Of Floors	1
Conditioned Floor Area [sq. ft.]	1,190
Has Electric Vehicle Ready Space	No
Unconditioned, attached garage?	No
Conditioned Volume [cu. ft.]	14,899
Total Units in Building	1
Residence Type	Single family detached
Number of Floors in Building	-
Floor Number	-
Model	Thurston Farms
Community	Lillington
RESNET/IECC 2006-2018 Climate Zone	4A
IECC 2021 Climate Zone	3A

## Foundation Wall

None Present

## Foundation Wall Library List

None Present

## Slab

Name	Library Type	Perimeter	Floor Grade	Carpet R	Exposed Masonry Area	Surface Area	Location	Enclosing
Slab	Uninsulated	170.1	On Grade	0	0	1,190.0 ft²	Exposed Exterior	Conditioned Space

## Slab Library List

Name	Wall Construction Type	Slab Completely Insulated?	Underslab Insulation Width [ft]	Perimeter Insulation Depth [ft]	Perimeter Insulation R Value	Thermal Break	Effective R-value
Uninsulated	Wood Frame / Other	No	0	0	0	No	0.00

## Framed Floor

None Present



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 Dustin Blackwell/Weaver Homes

## Framed Floor Library List

None Present

## Rim Joist

None Present

## Rim Joist Library List

None Present

## Wall

Name	Library Type	Surface Color	Surface Area	Location
1 to Ambient	2x6 Open Cell Spray 5.5"	Light	1,370.0 ft <sup>2</sup>	Exposed Exterior
1 to Garage	Open Cell Foam*0 2x4 to Garage	Light	486.4 ft <sup>2</sup>	Unconditioned, attached garage
Knee to Attic	Open Cell Foam*0 2x4 to Garage	Light	204.0 ft <sup>2</sup>	Exposed Exterior

## Wall Library List

Name	Effective R-value
2x6 Open Cell Spray 5.5"	17.389
Open Cell Foam*0 2x4 to Garage	11.119

## Glazing

Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
1 BD unsh (3068)	.32 .26	1 to Ambient		Yes	2	1.6	8.5	Northeast	20.0 ft <sup>2</sup>
1 BW unsh (2020)	.32 .26	1 to Ambient		Yes	2	3.67	5.67	Northeast	20.0 ft <sup>2</sup>

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Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
1 BW unsh (2852)	.32 .26	1 to Ambient		Yes	2	3.5	9	Southeast	96.6 ft <sup>2</sup>
1 FW unsh (2020)	.32 .26	1 to Ambient		Yes	2	1.6	3.6	Northwest	16.0 ft <sup>2</sup>
1 LW unsh (2020)	.32 .26	1 to Ambient		Yes	2	1.6	3.6	Northeast	8.0 ft <sup>2</sup>
1 RW unsh (2020)	.32 .26	1 to Ambient		Yes	2	1.6	3.6	Southwest	8.0 ft <sup>2</sup>

## Glazing Library List

Name	Shgc	U-factor
.32 .26	0.16	0.320

## Skylight

Name	Library Type	Roof Assignment	Orientation	Surface Area	Location
Living Room	.44 .26	Whole House Vault	Northeast	12.0 ft <sup>2</sup>	Vaulted Roof
Office	.44 .26	Whole House Vault	Southwest	6.0 ft <sup>2</sup>	Vaulted Roof

## Skylight Library List

Name	Shgc	U-factor
.44 .26	0.26	0.440

## Opaque Door

Name	Library Type	Wall Assignment	Foundation Wall Assignment	Emittance	Solar Absorbance	Surface Color	Surface Area	Location
Doors to Garage (3)	2 Inch Masonite R10	1 to Garage		0.9	0.6	Light	80.4 ft <sup>2</sup>	Unconditioned, attached garage

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 Dustin Blackwell/Weaver Homes

## Opaque Door Library List

Name	Effective R-value
2 Inch Masonite R10	8.00

## Roof Insulation

Name	Library Type	Attic Exterior Area [ft²]	Clay or Concrete Roof Tiles	Surface Color	Surface Area	Location
Whole House Vault	2x10, 9" Spray foam	1,332.8	No	Medium	1,332.8 ft²	Vaulted Roof

## Roof Insulation Library List

Name	Has Radiant Barrier	Effective R-value
2x10, 9" Spray foam	No	28.896

## Whole House Infiltration

Infiltration	Measurement Type	Shelter Class
3 ACH at 50 Pa	Blower-door tested	4

## Mechanical Ventilation

Ventilation Type	Ventilation Rate [ft³ / Minute]	Operational hours per day	Fan Watts	Runs once every three hours	Energy Recovery Percent	Model Number	Manufacturer
ERV	60 CFM	24	60 Watts (Default)	Yes	60		

## Lighting

% Interior Fluorescent Lighting	% Interior LED Lighting	% Exterior Fluorescent Lighting	% Exterior LED Lighting	% Garage Fluorescent Lighting	% Garage LED Lighting
0	100	0	100	100	0

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## Onsite Generation

None Present

## Onsite Generation Library List

None Present

## Solar Generation

None Present

## Dehumidifier

Name	Library Type
Ultra-Aire 70	Whole Home Dehumidifier

## Dehumidifier Library List

Name	Equipment Type	Capacity [pints/day]	Integrated Energy Factor [liters/kWh]
Whole Home Dehumidifier	Whole Home	70	1

## Whole House Fan

None Present

## Whole House Fan Library List

None Present

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 Dustin Blackwell/Weaver Homes

## Conditioning Equipment

Name	Library Type	Serial Number	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	Location
Mini Split	27k 15SEER 9HSPF Mini Split		100%	100%	0%	Attic
Water Heating (1)	Demand Electric		0%	0%	100%	Conditioned Space

### Equipment Type: 27k 15SEER 9HSPF Mini Split

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	ECM (Variable Speed)
Heating Efficiency	9 HSPF
Heating Capacity [kBtu/h]	32
Backup Fuel Type	Electric
Switchover Temperature [°F]	0
Backup Heating Efficiency	1 Adjusted Efficiency
Use default Supplemental Heat	Yes
Cooling Efficiency	15 SEER
Cooling Capacity [kBtu/h]	27

### Equipment Type: Demand Electric

Equipment Type	Residential Water Heater
Fuel Type	Electric
Distribution Type	Hydronic Delivery (Radiant)
Hot Water Efficiency	0.99 Energy Factor
Tankless?	Yes

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## Distribution System

Distribution Type	Forced Air
Heating Equipment	Mini Split
Cooling Equipment	Mini Split
Sq. Feet Served	1,190
# Return Grilles	2
Supply Duct R Value	8
Return Duct R Value	8
Supply Duct Area [ft <sup>2</sup> ]	321.3
Return Duct Area [ft <sup>2</sup> ]	119
Leakage to Outdoors	30 CFM @ 25Pa (2.52 / 100 ft <sup>2</sup> )
Total Leakage	50 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Attic (insulated walls and roofdeck)
Percent Supply Area	100
Percent Return Area	100
Duct 2	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 3	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 4	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 5	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 6	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0

## HVAC Grading

HVAC Grading Not Conducted

## Ceiling Fan

Has Ceiling Fan	Yes
Cfm Per Watt	65



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## Water Distribution

Water Fixture Type	Standard
Use Default Hot Water Pipe Length	No
Hot Water Pipe Length [ft]	20
At Least R3 Pipe Insulation?	No
Hot Water Recirculation System?	No
Recirculation System Pipe Loop Length [ft]	10
Drain Water Heat Recovery?	No

## Clothes Dryer

Cef	3.01
Fuel Type	Electric
Field Utilization	Timer Controls
Is Outside Conditioned Space	No
Clothes Dryer Available	No
Defaults Type	HERS Reference

## Clothes Washer

Label Energy Rating	400 kWh/Year
Annual Gas Cost	\$27.00
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Capacity	3
Imef	1
Defaults Type	HERS Reference
Load Type	Front-load
Loads Per Week	6
Is Outside Conditioned Space	No
Clothes Washer Available	No

## Dishwasher

Dishwasher Efficiency	269 kWh
Dishwasher Size	Standard
Annual Gas Cost	\$22.23
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Is Outside Conditioned Space	No

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## Appliances and Controls

Programmable thermostat?	Yes
Range/Oven Fuel	Electric
Convection Oven?	No
Induction Range?	No
Range/Oven Outside Conditioned Space?	No
Refrigerator Consumption	653 kWh/Year
Refrigerator Outside Conditioned Space?	No

## Notes

DGA 4/17/2023 Unremarkable small stud up renovation/remodel. Projected Model for Code Official Approval.

# Builder Affidavit

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Results are projected



## Important Notice to Builder


Builder affirms in this affidavit that all building characteristics described in the Building Summary Report accurately reflect this New Home. Builder agrees to allow the Home Energy Rating System (HERS) Provider and/or Rater to verify building characteristics of this New Home fully at the HERS Rater/Provider's discretion. The HERS Provider and Rater do not create or imply any duty or obligations to Builder or any subsequent owner. Builder is responsible for taking any actions necessary to protect Builder's interest. There is no guarantee or warranty whatsoever expressed or implied from the HERS Provider or Rater.

HERS® Index Score:69

Builder Name: Dustin Blackwell/Weaver Homes

Builder Signature: \_\_\_\_\_

Name:                     Dan Aaron                    

Signature:                                         

Organization:                     Home Energy Check LLC                    

Digitally signed:                     4/19/23 at 11:08 AM