

North Carolina 2018 - R402.1.5 Total UA

Property

TBD
Lillington, NC 27546
Model: 1340 Lucas A1_TH-EndUnit_2
Community: Buies Creek

Organization

Performance Point, LLC.
Rodrigo Torres

Inspection Status

Results are projected

Builder

True Homes

Buies Creek 1

True_Buies Creek 1_1340 Lucas A1_TH-En

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	20.4	17.5
Above-Grade Walls	82.9	84.6
Windows, Doors and Skylights	68.2	55.3
Slab Floor:	37.2	37.2
Framed Floors	0.0	0.0
Foundation Walls	0.0	0.0
Rim Joists	5.1	4.8
Overall UA (Design must be equal or lower):	213.8	199.4

Requirements

✓	R402.1.5	Total UA alternative compliance passes by 6.7%.	The proposed home meets the UA requirement by 6.7%
✓	R402.3.2	Average SHGC: 0.22 Max SHGC: 0.30	Average SHGC of 0.22 is greater than the maximum of 0.30.
✓	R402.4.2.2	Air Leakage Testing	Air sealing is 5.00 ACH at 50 Pa. It must not exceed 5.00 ACH at 50 Pa.
✓	R402.5	Area-weighted average fenestration SHGC	Area-weighted average fenestration SHGC is 0.22. The maximum allowed value is [No Limit].
✓	R402.5	Area-weighted average fenestration U-Factor	
✓	R404.1	Lighting Equipment	
✓	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 6.7%.

Name: Rodrigo Torres Signature: 
Organization: Performance Point, LLC. Digitally signed: 10/1/25 at 2:53 PM

Ekotrope RATER - Version 5.1.0.3720

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.

Energy Code Inspection Checklist

Property	Organization	Inspection Status
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General Building Information

Conditioned Area (sq ft)	1,360
Conditioned Volume (cubic ft)	12,523
Insulated Shell Area (sq ft)	3,349.1

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: House Slab(680 s.f., 74 ft. exterior perimeter) R-10 perimeter insulation, R-0 under slab insulation.
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Framed Floor

None Present

Foundation Wall

None Present

Above Grade Wall

	Name: 2x4 Ambient (1,257.5 s.f.) R-0 continuous insulation, R-15 cavity insulation Insulation Grade: I
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	Name: Niche (2 s.f.) R-0 continuous insulation, R-0.5 cavity insulation Insulation Grade: I
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	Name: 2x4 Kneewall - Porch (12.4 s.f.) R-0 continuous insulation, R-15 cavity insulation Insulation Grade: I
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Name: 2x4 Adiabatic (584.4 s.f.)
R-0 continuous insulation, R-11 cavity insulation
Insulation Grade: I

Rim Joist



Name: Ambient (82.4 s.f.)
R: 14.10



Name: Attic (8.6 s.f.)
R: 14.10



Name: Adiabatic (41.8 s.f.)
R: 14.10

Ceiling / Roof



Name: CIng- 6:12 (680 s.f.)
R-28.5 continuous insulation, R-9.5 cavity insulation
Insulation Grade: I

Opaque Door



Name: Front Door (20 s.f.)
R: 7.00

Glazing



Name: Front (75 s.f.), U: 0.300, SHGC: 0.22, Orientation: WEST



Name: Left (30 s.f.), U: 0.300, SHGC: 0.22, Orientation: NORTH



Name: Back (30 s.f.), U: 0.300, SHGC: 0.22, Orientation: EAST



Name: Back - Kitchen 2'6"x4' (10 s.f.), U: 0.300, SHGC: 0.22, Orientation: EAST

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 Name: Back - Nook 3'x4' (12 s.f.), U: 0.300, SHGC: 0.22, Orientation: EAST

 Name: Back Door (17.8 s.f.), U: 0.300, SHGC: 0.22, Orientation: EAST

Skylight

None Present

Mechanical Ventilation

None Present

Mechanical Equipment

 Water Heater • Electric • 100% Hot Water Load @ 0.93 UEF

 Heat Pump / All • Electric • 100% Heating Load @ 8.2 HSPF, 100% Cooling Load @ 14 SEER

Air Leakage Control

 Test Status: Blower-door tested
House is air-sealed as to achieve 1,044 CFM50 (5.00 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.
- 2024 IECC Infiltration limit for the design home is 4 ACH50.

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

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Duct Leakage

- Duct System 1
 - NOT entirely within conditioned space, testing required
 - Leakage to Outside specified as: 4 CFM25 / 100 ft²
 - Total Leakage specified as: 4 CFM25 / 100 ft² (Post-Construction)

Duct Leakage Code Requirements for IECC

- 2009 IECC:
 - Postconstruction Leakage Test: Duct Leakage to Outdoors <= 8 CFM25 / 100 sq ft CFA.
 - Rough in Test with AHU: Total Duct Leakage <= 6 CFM25 / 100 sq ft CFA.
 - Rough in Test without AHU: Total Duct Leakage <= 4 CFM25 / 100 sq ft CFA.
- 2012 IECC Mandatory, 2015, 2018, & 2021 IECC Prescriptive Paths:
 - Postconstruction Leakage Test: Total Duct Leakage <= 4 CFM25 / 100 sq ft CFA.
 - Rough in Test with AHU: Total Duct Leakage <= 4 CFM25 / 100 sq ft CFA.
 - Rough in Test without AHU: Total Duct Leakage <= 3 CFM25 / 100 sq ft CFA.
 - * Note: IECC 2021 requires Total Duct Leakage <= 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

EP_9/30/2025_Performance Report	True_1340 Lucas A1_TH-EndUnit_2
Worst Orientation (W)	
SC_10/1/2025_QC	

Energy Specifications Label

TBD

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Building Envelope Specs

Ceiling: R-38

Above Grade Walls: R-15

Foundation Walls: N/A

Exposed Floor: N/A

Slab: R-10

Infiltration: 5 ACH50

Duct Insulation: Supply: R8, Return: R8

Duct Lkg to Outdoors: 4 CFM25 / 100 ft²

Window & Door Specs

U-Value: 0.3, SHGC: 0.22

Door: R-7

Mechanical Equipment Specs

Heating: Air Source Heat Pump • Electric • 8.2 HSPF

Cooling: Air Source Heat Pump • Electric • 14 SEER

Hot Water: Residential Water Heater • Electric • 0.93 UEF

Average Mechanical Ventilation: 0 CFM

Builder or Design Professional

Signature: _____

Builder Affidavit

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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:80

Builder Name: True Homes

Builder Signature: _____

Name: _____ Rodrigo Torres
Organization: _____ Performance Point, LLC.

Signature: _____ 
Digitally signed: _____ 10/1/25 at 2:53 PM