North Carolina 2018 - R402.1.5 Total UA

Property
TBD
Lillington, NC 27546
Model: 1340 Lucas A1_TH-InsideUnit_1
Community: Buies Creek

OrganizationPerformance Point, LLC.
Rodrigo Torres

Inspection StatusResults are projected

Builder True Homes

Buies Creek 7

True_Buies Creek 7_1340 Lucas A1_TH-In:

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	40.2	41.5
Windows, Doors and Skylights	57.7	46.3
Slab Floor:	20.9	20.9
Framed Floors	0.0	0.0
Foundation Walls	0.0	0.0
Rim Joists	2.7	2.6
Overall UA (Design must be equal or lower):	141.9	128.8

Requirements

_			
	R402.1.5	Total UA alternative compliance passes by 9.2%.	The proposed home meets the UA requirement by 9.2%
	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 9.2%.

Name:	Rodrigo Torres	Signature:	J. C.	
Organization:	Performance Point, LLC.	Digitally signed:	10/1/25 at 3:12 PM	

Property TBD Lillington, NC 27546 Rodrigo Torres Model: 1340 Lucas A1_TH-InsideUnit_1 Community: Buies Creek Buies Creek 7 True_Buies Creek 7_1340 Lucas A1_TH-In: **General Building Information** Conditioned Area (sq ft) Conditioned Volume (cubic ft) Insulated Shell Area (sq ft) Slab

Organization **Inspection Status** Performance Point, LLC. Results are projected

Builder True Homes

1,360 12,523 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.

	Name: House Slab(680 s.f., 40 ft. exterior perimeter) R-10 perimeter insulation, R-0 under slab insulation.
Fram	ed Floor
	None Present
Foun	dation Wall
	None Present
Abov	re Grade Wall
	Name: 2x4 Ambient (673.1 s.f.) R-0 continuous insulation, R-15 cavity insulation Insulation Grade: I
	Name: Niche (2 s.f.) R-0 continuous insulation, R-0.5 cavity insulation Insulation Grade: I
	Name: 2x4 Kneewall - Porch (12.4 s.f.) R-0 continuous insulation, R-15 cavity insulation Insulation Grade: I

Model	rty ton, NC 27546 : 1340 Lucas A1_TH-InsideUnit_1 nunity: Buies Creek	Organization Performance Point, LLC. Rodrigo Torres Builder True Homes	Inspection Status Results are projected
	Creek 7 Buies Creek 7_1340 Lucas A1_TH-In:	nuenomes	
	Name: 2x4 Adiabatic (1,168.8 s.f.) R-0 continuous insulation, R-11 cav Insulation Grade: I	ity insulation	
Rim J	loist		
	Name: Ambient (40.6 s.f.) R: 14.10		
	Name: Attic (8.6 s.f.) R: 14.10		
	Name: Adiabatic (83.6 s.f.) R: 14.10		
Ceilir	ng / Roof		
	Name: Clng- 6:12 (680 s.f.) R-28.5 continuous insulation, R-9.5 Insulation Grade: I	cavity insulation	
Opac	que Door		
	Name: Front Door (20 s.f.) R: 7.00		
Glazi	ng		
	Name: Front (75 s.f.), U: 0.300, SH	HGC: 0.22, Orientation: WEST	
	Name: Back (30 s.f.), U: 0.300, SH	GC: 0.22, Orientation: EAST	
	Name: Back - Kitchen 2'6"x4' (10 s.f.,), U: 0.300, SHGC: 0.22, Orient	ation: EAST
\Box	Name: Back - Nook 3'x4' (12 s.f.), U	: 0,300, SHGC: 0,22, Orientation	n: EAST

Model Comm	rty ton, NC 27546 : 1340 Lucas A1_TH-InsideUnit_1 nunity: Buies Creek Creek 7 Buies Creek 7_1340 Lucas A1_TH-In:	Organization Performance Point, LLC. Rodrigo Torres Builder True Homes	Inspection Status Results are projected	
	Name: Back Door (17.8 s.f.), U: 0.3	00, SHGC: 0.22, Orientation: E/	AST	
Skyli	ght			
	None Present			
Mech	nanical Ventilation			
	None Present			
Mech	nanical 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 L	eakage Control			
	Test Status: Blower-door tested House is air-sealed as to achieve 1,	044 CFM50 (5.00 ACH50) or less a	it final blower-door test.	
	Infiltration Requirements for IECC i	n Climate Zone 4		
	2009 IECC Infiltration limit f	or the design home is 7 ACH50.		
	2012 IECC Infiltration limit f	or the design home is 3 ACH50.		
2015 IECC Infiltration limit for the design home is 3 ACH50.				
		for the design home is 3 ACH50.		
		for the design home is 5 ACH50.		
		for the design home is 4 ACH50. and later, 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: 4 CFM25 / 100 ft² Total Leakage specified as: 4 CFM25 / 100 ft² (Post-Construction)

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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 Worst Orientation Lot 1 (W) SC_10/1/2025_QC

True_1340 Lucas A1_TH-InsideUnit_1

Energy Specifications Label TBD

Model: 1340 Lucas A1_TH-InsideUnit_1 Ekotrope RATER - Version: 5.1.0.3720

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 quarantee or warranty whatsoever expressed or implied from the HERS Provider or Rater.

HERS® Index Score:81

Builder Name: True Homes		Builder Signature:	
Name:	Rodrigo Torres	Signature:	
Organization:	Performance Point, LLC.	 Digitally signed:	10/1/25 at 3:12 PM