North Carolina 2018 - R402.1.5 Total UA

Property
TBD 190
Erwin, NC 28339
Model: 1720 Aria I-C3_3
Community: Masons Mills

OrganizationPerformance Point, LLC.
Rodrigo Torres

Inspection Status Results are projected

Builder True Homes

Masons Mills 190

True Masons Mills 190 1720 Aria I-C3 5

3

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	34.2	29.3
Above-Grade Walls	167.2	164.7
Windows, Doors and Skylights	107.6	97.7
Slab Floor:	73.4	73.4
Framed Floors	0.0	0.0
Foundation Walls	0.0	0.0
Rim Joists	9,6	9.4
Overall UA (Design must be equal or lower):	392.0	374.5

Requirements

R402.1.5	Total UA alternative compliance passes by 4.5%.	The proposed home meets the UA requirement by 4.5%
R402.3.2	Average SHGC: 0.30 Max SHGC: 0.30	Average SHGC of 0.30 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 0.3. 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 4.5%.

Name:	Rodrigo Torres	Signature:		
Organization:	Performance Point, LLC.	Digitally signed:	8/15/25 at 1:08 PM	

Property TBD 190 Erwin, NC 28339 Model: 1720 Aria I-C3_3 Community: Masons Mills

OrganizationPerformance Point, LLC. Rodrigo Torres

Inspection Status Results are projected

Builder

True Homes

Masons Mills 190

True_Masons Mills 190_1720 Aria I-C3_5_

General Building Information

Conditioned Area (sq ft)	2,218
Conditioned Volume (cubic ft)	20,417
Insulated Shell Area (sq ft)	4,933

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(1,141 s.f., 148 ft. exterior perimeter) R-10 perimeter insulation, R-0 under slab insulation.			
Fram	ed Floor			
	None Present			
Foun	dation Wall			
	None Present			
Above Grade Wall				
	Name: 2x4/ Ambient (2,172.9 s.f.) R-0 continuous insulation, R-15 cavity insulation Insulation Grade: I			
	Name: Niche (2 s.f.) R-3 continuous insulation, R-0 cavity insulation Insulation Grade: I			

Name: 2x4/ Kneewall - Porch (28.8 s.f.)

Insulation Grade: I

R-0 continuous insulation, R-15 cavity insulation

Model	-	Organization Performance Point, LLC. Rodrigo Torres Builder	Inspection Status Results are projected		
	s Mills 190 Nasons Mills 190_1720 Aria I-C3_5_	True Homes			
	Name: 2x6 Ambient (275.3 s.f.) R-0 continuous insulation, R-19 cav Insulation Grade: I	ity insulation			
Rim J	oist				
	Name: Ambient (136.9 s.f.) R: 13.30				
	Name: Attic (35.1 s.f.) R: 13.30				
Ceilir	ng / Roof				
	Name: Clng- 7:12 (1,077 s.f.) R-28.5 continuous insulation, R-9.5 Insulation Grade: I	cavity insulation			
	Name: Clng- 6:12 (64 s.f.) R-28.5 continuous insulation, R-9.5 Insulation Grade: I	cavity insulation			
Opac	Opaque Door				
	Name: Front Door (20 s.f.) R: 7.00				
Glazi	Glazing				
	Name: Front (75 s.f.), U: 0.330, SF	IGC: 0.3, Orientation: WEST			
	Name: Front Shd PDR 2'x2' Fxd. (4	s.f.), U: 0.330, SHGC: 0.3, Orie	ntation: WEST		
	Name: Right - Loft 2'6"x5' (12.5 s.f.),	U: 0.330, SHGC: 0.3, Orientati	on: SOUTH		
П	Name: Back (105 s.f.), U: 0.330, S	HGC: 0.3, Orientation: EAST			

Prope TBD 1	•	Organization	Posults are projected
	, NC 28339	Performance Point, LLC. Rodrigo Torres	Results are projected
	l: 1720 Aria I-C3_3	Roungo Torres	
	nunity: Masons Mills	Builder	
	,	True Homes	
Masor	ns Mills 190		
True_l	Masons Mills 190_1720 Aria I-C3_5_		
	Name: Back Door (20 s.f.), U: 0.330), SHGC: 0.3, Orientation: EAST	
	Name: Back Door Fxd. (20 s.f.), U: (0.330, SHGC: 0.3, Orientation: I	EAST
	Name: Left (51 s.f.), U: 0.330, SHO	GC: 0.3, Orientation: NORTH	
Skyli	ght		
	None Present		
Mecl	nanical Ventilation		
	None Present		
Mecl	nanical Equipment		
	Water Heating • Electric • 100% Ho	t Water Load @ 0.91 Energy Facto	ır
	Heat Pump / All • Electric • 100% He	eating Load @ 8.2 HSPF, 100% Cod	oling Load @ 14 SEER
Air L	eakage Control		
	Test Status: Blower-door tested House is air-sealed as to achieve 1,7	701 CFM50 (5.00 ACH50) or less a	t final blower-door test.
	Infiltration Requirements for IECC in	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 f	or the design home is 3 ACH50.	
	2018 IECC Infiltration limit f	or the design home is 3 ACH50.	
	2021 IECC Infiltration limit f	or the design home is 5 ACH50.	
	2024 IECC Infiltration limit f	or the design home is 4 ACH50.	
	Note: Under IECC 2021 a	nd later, this home is considered	to be in Climate Zone 3

Property

TBD 190

Erwin, NC 28339 Model: 1720 Aria I-C3 3

Community: Masons Mills

Organization

Performance Point, LLC. Rodrigo Torres

Inspection Status

Results are projected

Builder

True Homes

Masons Mills 190

True Masons Mills 190 1720 Aria I-C3 5

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

JM 08/14/2025 Performance Report SC_8/15/2025_QC

True_1720 Aria I-C3_5

Energy Specifications Label TBD 190

Model: 1720 Aria I-C3_3 Ekotrope RATER - Version: 5.1.0.3691

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: 0.33, SHGC: 0.3

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 • 0.91

Energy Factor

Average Mechanical Ventilation: 0 CFM

Builder or Design Professional

Signature: _

Builder Affidavit

Property

TBD 190 Erwin, NC 28339

Masons Mills 190

Model: 1720 Aria I-C3 3 Community: Masons Mills

True Masons Mills 190 1720 Aria I-C3 5

Organization

Performance Point, LLC. Rodrigo Torres

Builder

True Homes

Important Notice to Builder

Inspection Status

Results are projected

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:86

Builder Name: True Homes		Builder Signature:		
Name:	Rodrigo Torres	Signature:		
Organization:	Performance Point, LLC.	 Digitally signed:	8/15/25 at 1:08 PM	