

North Carolina 2018 - Simulated Performance Alternative (N1105)

Property

TBD Brainbridge Court 92
Angier, NC 27501
Model: Telfair
Community: Cambridge Reserve

Mungo Homes Cambridge Reserve 92
TBD Brainbridge Court 92

Organization

Builder i Group, LLC
Mark Osborne

Builder

Mungo Homes

Inspection Status

Results are projected

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

Annual Energy Cost

Design	North Carolina 2018 Performance	As Designed
Heating	\$822	\$824
Cooling	\$271	\$210
Water Heating	\$303	\$303
Mechanical Ventilation	\$0	\$0
SubTotal - Used to determine compliance	\$1,395	\$1,336
Lights & Appliances w/out Ventilation	\$652	\$652
Onsite generation	\$0	\$0
Total	\$2,047	\$1,988

Source Energy Exception: The proposed home uses 6.4 MBtu LESS source energy than the reference home.

Requirements

✓	R405.3	Performance-based compliance passes by 6.0%	The proposed house meets the North Carolina 2018 Performance reference energy bill requirement by \$58.8 (6.4 MBtu).
✓	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 0.19. 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.

Design exceeds requirements for North Carolina 2018 Performance compliance by 6%.

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: Mark Osborne
Organization: Builder i Group, LLC

Signature: Mark Osborne
Digitally signed: 8/11/25 at 8:52 AM

Ekotrope RATER - Version 5.0.2.3687

North Carolina 2018 Performance 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.
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