APPENDIX E-1 ENERGY EFFICIENCY CERTIFICATE Section N1101.14 & NCECC R401.3 This home has been independently verified to meet the energy efficiency requirements of the 2018 NC ENERGY CONSERVATION CODE					
PROPERTY ADDRESS 53 Jones Creek (2nd					
BUILDER SIGNATURE	DATE				
INSULATION RATING R-VALUE*	BUILDING AIR LEA	KAGE			
CEILING/ROOF 38	Visually inspected according to	P			
WALL IS	NCECC R402.4.2.1 (N1102.4.2.1) AND / OR				
FLOOR -	Building Air Leakage Test Results (NCECC R402.4.2.2; N1102.4.2.2)	7.8			
CLOSED CRAWL WALL (IF APPLICABLE)	(TARGET: ≤ 5 ACH50)	ACH50			
CLOSED CRAWL FLOOR (IF APPLICABLE)	HVAC DUCTS	R-VALUE*			
SLAB (IF APPLICABLE)	INSULATION (Cond.)	8,			
BASEMENT WALL (IF APPLICABLE)	INSULATION (Uncond.)	8			
Visually inspected tub, shower, fireplace units, stairs NCECC R402.2.14	DUCT LEAKAGE SYSTEM 1 (NCECC R403.3.3/	CFM25/100SF			
Home meets the Simulated Performance Alternative (PERFORMANCE OPTION) (IF APPLICABLE)	N1103.3.3) SYSTEM 2 (NCECC R403.3.3/ (IF APPLICABLE) N1103.3.3)	0.9			
FENESTRATION*	SYSTEM 3 (NCECC R403.3.3/ (IF APPLICABLE) N1103.3.3)				
U-FACTOR 33	TOTAL DUCT LEAKAGE	0.9			
SOLAR HEAT GAIN (SHGC) . 26	TESTER S. Calli	4			
ELECTRICAL & LIGHTING SYSTEMS	TESTING COMPANY SOUTHERN ENERGY MA	ANAGEMENT			
Visually inspected according to NCECC	PHONE (919) 836-0330				
R404 (75%+ high-efficiency lighting)	TESTING DATE 12/4	1/27			
*Values listed indicate predominant rating found in home					
THIS HOME IS SOLAR READY! Mention "Breaker Box" to receive \$500 off					
Call Southern Energy Management at (919) 836-0330					
© 2019 Southern Energy Management, Inc.					

APPENDIX Sec

This h energy efficiency

PROPERTY ADDRESS

BUILDER NAME

BUILDER SIGNATURE

INSULATION RATI

CEILING/ROOF

WALL

FLOOR

CLOSED CRAWL WALL

CLOSED CRAWL FLOOP

SLAB (IF APPLICABLE)

BASEMENT WALL

Visually inspected to stairs NCECC R402

Home meets the Sir Alternative (PERFOI (IF APPLICABLE)

FENESTI

U-FACTOR

SOLAR HEAT GAIN (S

ELECTRICAL & LI

Visually inspected R404 (75%+ high

APPENDIX E-1 ENERGY EFFICIENCY CERTIFICATE

This home has been independently verified to meet the energy efficiency requirements of the 2018 NC ENERGY CONSERVATION CODE

PROPERTY ADDRESS

BUILDER NAME

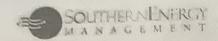
Section N1101.14 & NCECC R401.3

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PROPERTY ADDRES

BUILDER NAME



AIR SEALING: TESTING OPTION (Section N1102.4.2.2)

N1102.4.2.2 Testing Option. Building envelope tightness shall be considered acceptable when items providing insulation enclosure in N1102.2.14 and enclosure and air sealing in N1102.2.15 and air sealing in N1102.4.1 are addressed and when tested air leakage is less than or equal to one of the two following performance measurements:

- 0.30 CFM50/Sq. Ft. of Surface Area (SFSA) or

When tested with a blower door fan assembly, at a pressure of 33.5 p.s.f. (50 Pa). A single point depressurization test (not temperature corrected) is sufficient to comply with this provision, provided that the blower door fan assembly has been certified by the manufacturer to be capable of conducting tests in accordance with ASTM E779-03 or ASTM E1827. Testing shall occur after rough in and after installation of penetrations of the building envelope, including penetrations for utilities, plumbing, electrical, ventilation and combustion appliances. Testing shall be reported by the permit holder, a NC licensed general contractor, a NC licensed HVAC contractor, a NC licensed home inspector, a registered design professional, a certified BPI Envelope Professional, or a certified HERS rater.

During testing:

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- Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed;
- Dampers shall be closed, but not sealed, including exhaust, backdraft, and flue dampers;
- 3.
- Exterior openings for continuous ventilation systems, air intake ducted to the return side of the conditioning system, and energy or heat recovery ventilators shall be closed and sealed;
- Heating and cooling system(s) shall be turned off; and
- 6. Supply and return registers shall not be sealed.

The air leakage information, building air leakage result, tester name, date, and contact information, shall be included on the certificate described in Section N1101.14.

AIR SEALING TEST REPORT:

PROPERTY ADDRESS				
53 dr	res Creek Lane	Lillington, NC		
TEST CRITERIA ONE				
Fan attachment local				
Blower door dir leaka				
Total square feet of	envelope surface area (SFSA):			
Total CFMSO/SFSA:		(Must be ≤ 0.30 CFM50/SFSA to pass Test Criteria 1)		
TEST CRITERIA TWO	(2)			
TEST CRITERIA TWO Fan attachment local Blower door air leaka	tion: Front Poar lige (CFM50): 719			
TEST CRITERIA TWO Fan attachment local Blower door air leaks Conditioned volume	tion: Front Poor	(Must be ≤ 5 ACH50 to pass Test Criteria 2)		
TEST CRITERIA TWO Fan attachment locat Blower door air leaka Conditioned volume	tion: Front Poar lige (CFM50): 719	, ,		
TEST CRITERIA TWO Fan attachment locat Blower door air leaka Conditioned volume Total ACHS0:	tion: Front Poar lige (CFM50): 719	(Must be ≤ 5 ACH50 to pass Test Criteria 2) Test Date: 12/4/23		
TEST CRITERIA TWO Fan attachment locat Blower door air leaka Conditioned volume Total ACHSO:	ition: Front Poor uge (CFM50): 719 of home (ft³): 15141	, ,		
TEST CRITERIA TWO Fan attachment locat Blower door air leaka Conditioned volume Total ACHSO:	southern energy management Sara Collier	Test Date: 12/4/23		
TEST CRITERIA TWO Fan attachment local Blower door air leaka	southern energy management Sara Collier	Test Date: 12/4/23 Signature of Tester:		



DUCT AIR LEAKAGE TESTING (Section N1103.3)

N1103.3.2 (R403.3.2) Sealing (Mandatory): Ducts, air handlers, filter boxes, and building cavities used as ducts shall be sealed. Joints and seams shall comply with either the International Mechanical Code or International Residential Code, as applicable.

Duct tightness shall be useful as follows: Duct tightness shall be verified as follows:

Total duct leakage less than or equal to 5 CFM (141.6 L/min) per 100 ft² (9.29 m²) of conditioned floor area served by that system when tested at a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. During testing:

- 1. Block, if present, the ventilation air duct(s) connected to the conditioning system.
- The duct air leakage testing equipment shall be attached to the largest return in the system or to the air handler.
- The filter shall be removed and the air handler power shall be turned off.
- Supply boots or registers and return boxes or grilles shall be taped, plugged, or otherwise sealed air tight.
- 5. The hose for measuring the 25 Pascats of pressure differential shall be inserted into the boot of the supply that is normally closest to the air handler.
- 6. Specific instructions from the duct testing equipment manufacturer shall be followed to reach duct test pressure and measure duct air leakage.

N1103.3.3 (R403.3.3): For the Test Criteria, the report shall be produced in the following manner: Perform the HVAC system air leakage test and record the CFM25. Calculate the total square feet of conditioned floor area (CFA) served by that system. Multiply CFM25 by 100, divide the result by the CFA and record the result. If the result is less than or equal to 5 CFM25/100SF "Total duct leakage" test or less than or equal to 4 CFM25/100SF for the "Duct leakage to the outside" test, then the HVAC system air tightness is acceptable.

DUCT LEAKAGE REPORT(s):

		RESS:

53 Joses Creek bon	e Lil	lington, NC	
And the second s			
SYSTEM ONE (1)		1 11	
Area of home served (location): Who le han		Fan attachment location: hell	
Conditioned Floor Area (CFA) served by system (ft²): 16	29		
CFM25 Total: LS	Total Duct Leakage:	0.9	
SYSTEM TWO (2)		(IF APPLICABLE)	
Area of home served (location):		Fan attachment location:	
Conditioned Floor Area (CFA) served by system (ft²):			
CFM25 Totak	Total Duct Leakage:		
SYSTEM THREE (3)		(IF APPLICABLE)	
Area of home served (location):		Fan attachment location:	
Conditioned Floor Area (CFA) served by system (ft²):		and the state of t	
CFM2S Total:	Total Duct Leakage:		
SYSTEM FOUR (4)		(IF APPLICABLE)	
Area of home served (location):		Fan attachment location:	
Conditioned Floor Area (CFA) served by system (ft²):		1. (3)	
	Total Duct Leakage:	The state of the s	
	NT Test Date	. 12/11/22	
Company: SOUTHERN ENERGY MANAGEME	NI Test Date	: 12/4/23	
Tester Name: Sara Collier CERTIFIED HERS RATER	Signature	of Tester: an	
	Phone:	919-520-0152	
	Email:	sara@southern-energy.com	
	PATER ID	5155653	