

County of Harnett
Building Inspections Department
Planning Services

Certificate of Compliance: X Occupancy: X

Certificate issued pursuant to the requirements of North Carolina General Statute 153A-363 and Harnett County Zoning Ordinances. This certifies at the time of issuance, this structure was in compliance with the various ordinances of the County of Harnett and the North Carolina State Building Codes. For the following:

Use Classification: R-3

Permit Numbers

Name: H+H Constructors

Building: 12-50028538

Address: 48 Sandburg Pl.

Electrical: 11

Insulation: 11

Plumbing: 11

Mechanical: 11

MFG Home: _____

Date: 6-29-12

Building Official: T. Michael Ream

ADDRESS . . : 48 SANDBURG PL SUBDIV: OAKMONT PHASE 1 SECT1
CONTRACTOR : H & H CONSTRUCTORS INC PHONE : (910) 486-4864
OWNER . . . : OAKMONT DEV PTNRS LLC PHONE :
PARCEL . . . : 03-0507- - -0046- -22-
APPL NUMBER: 12-50028538 CP NEW RESIDENTIAL (SFD)
DIRECTIONS : T/S: 03/13/2012 09:59 AM JBROCK ----
TAKE HWY 27 TO DOCS RD TURN LEFT GO
ABOUT 1.5 MILES TURN LEFT INTO S/D LOT
22

STRUCTURE: 000 000 54X61 4BDR CRAWL W/ GARAGE & PORCH
FLOOD ZONE : FLOOD ZONE X
BEDROOMS : 4000000.00 PROPOSED USE : SFD
SEPTIC - EXISTING? : NEW WATER SUPPLY : COUNTY

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
B101 02	4/24/12	DT	R*BLDG FOOTING / TEMP SVC POLE VRU #: 002218816
	4/24/12	AP	T/S: 04/24/2012 10:31 AM DETAYLOR -----
B101 01	4/24/12	DT	R*BLDG FOOTING / TEMP SVC POLE VRU #: 002218808
	4/24/12	AP	T/S: 04/24/2012 10:31 AM DETAYLOR -----
B103 01	4/27/12	MR	R*BLDG FOUND & TEMP SVC POLE VRU #: 002220119
	4/27/12	AP	T/S: 04/27/2012 11:08 AM MREARIC -----
AB14 01	4/27/12	TW	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 002220127
	4/27/12	AP	48 sandburg pl lot 22 lillington 27546 T/S: 04/27/2012 09:07 AM TWARD -----
B105 01	5/02/12	MR	R*OPEN FLOOR VRU #: 002222446
	5/02/12	AP	T/S: 05/02/2012 12:09 PM MREARIC -----
R427 01	5/17/12	MR	FOUR TRADE ROUGH IN >2500 VRU #: 002227742
	5/17/12	DA	T/S: 05/17/2012 12:40 PM MREARIC ----- porch flashing porch lateral support still needed
I129 01	5/21/12	MR	R*INSULATION INSPECTION VRU #: 002228229
	5/21/12	AP	T/S: 05/21/2012 01:11 PM MREARIC -----
R127 01	5/21/12	MR	ONE TRADE ROUGH IN > 2500 VRU #: 002228237
	5/21/12	AP	T/S: 05/21/2012 01:11 PM MREARIC -----
R427 02	5/21/12	MR	FOUR TRADE ROUGH IN >2500 VRU #: 002228534
	5/21/12	AP	T/S: 05/21/2012 01:11 PM MREARIC -----
R431 01	5/21/12	DJ	FOUR TRADE FINAL >2500 VRU #: 002228567
	5/18/12	CA	Insulation inspection as well as it was noted ok to insulate. T/S: 05/18/2012 02:18 PM DJOHNSON ----- SCCHEDULED WRONG INSPECTION
R227 01	5/31/12	MR	TWO TRADE ROUGH IN >2500 VRU #: 002233120
	5/31/12	AP	The front porch required an engineered description to be set up before the porch is poured with concrete because of the height. T/S: 05/31/2012 12:02 PM MREARIC ----- porch has been re-inforced for latrerall movement per engineer
H824 01	5/31/12	OT	ENVIR. OPERATIONS PERMIT TIME: 17:00 VRU #: 002234219
	5/31/12	AP	T/S: 06/01/2012 09:54 AM SZIMMER ----- T/S: 06/01/2012 09:54 AM SZIMMER -----
R431 02	6/26/12	MR	FOUR TRADE FINAL >2500 VRU #: 002243921



DUCT AIR LEAKAGE TESTING (Section 403.2.2)

N1103.2.2 Sealing All ducts, air handlers, filter boxes and building cavities used as ducts shall be sealed. Joints and seams shall comply with Section 603 of the NC Mechanical Code.

Duct tightness shall be verified as follows:

Total duct leakage less than or equal to 6 CFM (18 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 connected to the conditioning system.
2. The duct air leakage testing equipment shall be attached to the largest return in the system or to the air handler.
3. The filter shall be removed and the air handler power shall be turned off.
4. 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 Pascals 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.

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 6 CFM25/100SF, the HVAC system air tightness is acceptable.

DUCT LEAKAGE REPORT(s):

PROPERTY ADDRESS:
48 Sandberg Pl Lillington NC

SYSTEM ONE (1)	
Area of home served (location): 1st	Fan attachment location: Return
Conditioned Floor Area (CFA) served by system (ft ²): 1685	
CFM25 Total: 38	Total Duct Leakage: 0.0 2.25%

SYSTEM TWO (2) (IF APPLICABLE)	
Area of home served (location): 1685 2nd	Fan attachment location: Return
Conditioned Floor Area (CFA) served by system (ft ²): 1685	
CFM25 Total: 51	Total Duct Leakage: 0.0 3.09%

SYSTEM THREE (3) (IF APPLICABLE)	
Area of home served (location):	Fan attachment location:
Conditioned Floor Area (CFA) served by system (ft ²):	
CFM25 Total:	Total Duct Leakage: 0.0

SYSTEM FOUR (4) (IF APPLICABLE)	
Area of home served (location):	Fan attachment location:
Conditioned Floor Area (CFA) served by system (ft ²):	
CFM25 Total:	Total Duct Leakage: 0.0

Company: SOUTHERN ENERGY MANAGEMENT	Test Date:
Tester Name: Daniel Conner CERTIFIED HERS RATER	Signature of Tester:
Phone: 919 656 7859	
Email: dan.c@southern-energy.com	
RATER ID: 7828417	

1549

38

51

$$\begin{array}{r} 1549 \times 60 \\ \hline 31578 \end{array}$$



AIR SEALING: TESTING *OPTION* (Section 402.4.2.2)

402.4.2.2 **Testing Option.** Building envelope tightness shall be considered acceptable when items providing insulation enclosure in 402.2.12 and air sealing in 402.4.1 are addressed and when tested air leakage is less than or equal to one of the two following performance measurements:

1. 0.30 CFM50/Sq. Ft. of Surface Area (SFSA) or
2. Five (5) air changes per hour (ACH50)

When tested with a blower door fan assembly, at a pressure of 33.5 p.s.f. (50 Pa). A single point depressurization, not temperature corrected, test 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. 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:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed;
2. Dampers shall be closed, but not sealed, including exhaust, backdraft, and flue dampers;
3. Interior doors shall be open;
4. 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;
5. Heating and cooling system(s) shall be turned off; and
6. Supply and return registers shall not be sealed.

The air leakage information, including air leakage result, tester name, date, and contact information, shall be included on the certificate described in Section 401.3.

AIR SEALING TEST REPORT:

PROPERTY ADDRESS:
48 Sandburg Pl Lillington NC

TEST CRITERIA ONE (1)	
Fan attachment location:	Front Door
Blower door air leakage (CFM50):	
Total square feet of envelope surface area (SFSA):	
Total CFM50/SFSA:	0.00 (Must be ≤ 0.30 CFM50/SFSA to pass Test Criteria 1)

-or-

TEST CRITERIA TWO (2)	
Fan attachment location:	Front Door
Blower door air leakage (CFM50):	1549
Conditioned volume of home (ft ³):	31578
Total ACH50:	2.94 (Must be ≤ 5 ACH50 to pass Test Criteria 2)

Company:	SOUTHERN ENERGY MANAGEMENT	Test Date:	
Tester Name:	Daniel Conner CERTIFIED HERS RATER	Signature of Tester:	
		Phone:	919 656 7859
		Email:	daniel@southern-energy.com
		RATER ID:	7828417

