PREPARED 5/07/12, 14:15:05 INSPECTION TICKET PAGE 26 Harnett County INSPECTOR: IVR DATE 5/08/12 ADDRESS . : 416 JUNO DR SUBDIV: TINGEN POINTE PH 5 33LOTS CONTRACTOR : WYNN CONSTRUCTION, INC. PHONE: (919) 528-1347 OWNER . . : THE HARNETT LAND GROUP #117 PHONE: (910) 893-5063 PARCEL . . : 03-9576-01- -0088- -21-APPL NUMBER: 12-50028435 CP NEW RESIDENTIAL (SFD) DIRECTIONS: T/S: 02/24/2012 12:20 PM DJOHNSON --TINGEN POINTE LOT 117 27 WEST GO PAST WESTERN HARNETT HIGH AND MIDDLE SCHOOLS. GO ABOUT ANOTHER 3 MILES AND THE SUBD IS ON THE LEFT. STRUCTURE: 000 000 74X38 3 BR ATT GARAGE MONO FLOOD ZONE . . . : FLOOD ZONE X PROPOSED USE . . . . . . : SFD SEPTIC - EXISTING? . . . : NEW WATER SUPPLY . . . . . . : COUNTY PERMIT: CPSF 00 CP \* SFD REQUESTED INSP DESCRIPTION
TYP/SQ COMPLETED RESULT RESULTS/COMMENTS

ADDRESS CONFIRMATION VRU #: 002224046

R\*PLUMB UNDER SLAB VRU #: 002223113

T/S: 05/04/2012 12:52 PM MREARIC -----

----- COMMENTS AND NOTES ------

R\*BLDG MONO SLAB/TEMP SVC POLE VRU #: 002224038

5-8-12 AP-MR

P309 01

5/04/12 MR

5/04/12 AP A814 01 5/08/12 TI

B114 01 5/08/12 TI

R-10 on Perimeter 19 11 6" walls



## REScheck Software Version 4.4.3 Compliance Certificate

Project Title: The Sunflower II

Energy Code:

Location:

North Carolina Energy Conservation Code Lillington, North Carolina Single Family

Construction Type: Glazing Area Percentage:

11% 3502

Heating Degree Days: Climate Zone:

Construction Site: Lot 117 Tingen Point Owner/Agent:

Designer/Contractor:

Wynn Construction

Tatum Insulation II

Compliance: Passes using UA trade-of

Your UA: 371

Maximum SHGC: 0.40 Your SHGC: 0.40

Compliance: 3.4% Better Than Code Maximum UA: 384 The % Better or Worse Than Code index reflects how close to compliance the house is based on code trade-off rules.

It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

	Assembly		Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Glazing or Door U-Factor	UA
Ceiling 1: Flat Ceiling	or Scissor Truss	•	1299	38.0	0.0		39
Ceiling 2: Flat Ceiling	or Scissor Truss		96	38.0	0.0		3
Ceiling 3: Cathedral C	Ceiling (		192	38.0	0.0		5
Wall 1: Wood Frame,	16" o.c.		1728	19.0	0.0		* 90
Window 1: Vinyl Fram SHGC: 0.40	e:Double Pane with Low-E		165			0.320	53
Door 1: Solid			38			0.190	7
Door 2: Glass SHGC: 0.40	•		18			0.320	6
Floor 2: Slab-On-Grad Insulation depth: 1			186		5:8 10-0	7	168

Compliance Statement: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the North Carolina Energy Conservation Code requirements in REScheck Version 4.4.3 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Name - Title

Project Title: The Sunflower II

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Report date: 04/25/12 Data filename: C:\Documents and Settings\Micheal O'Brien\My Documents\REScheck\Wynn Const\The Sunflower II w\NO

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## **REScheck Software Version 4.4.3 Inspection Checklist**

Energy Code: Location:

North Carolina Energy Conservation Code Lillington, North Carolina Single Family 11% 3502

Construction Type: Glazing Area Percentage:

Heating Degree Days: Climate Zone:

C	eil	lir	٦a	S	:

ourngo.				
Ceiling 1: Flat Ceiling or Scissor Truss, R-38.0 cavity insulation  Comments:				
Ceiling 2: Flat Ceiling or Scissor Truss, R-38.0 cavity insulation  Comments:				
Ceiling 3: Cathedral Ceiling, R-38.0 cavity insulation  Comments:				
Above-Grade Walls:				
Wall 1: Wood Frame, 16" o.c., R-19.0 cavity insulation  Comments:				
Windows:				
Vindow 1: Vinyl Frame:Double Pane with Low-E, U-factor: 0.320, SHGC: 0.40, or windows without labeled U-factors, describe features:				
#Panes Frame Type Thermal Break? Yes No Comments:				
Doors:				
Door 1: Solid, U-factor: 0.190  Comments:				
Door 2: Glass, U-factor: 0.320, SHGC: 0.40,  Comments:				
Floors:				
Floor 2: Slab-On-Grade:Unheated, 1.0' insulation depth, R-5.0 continuous insulation  Comments:				
Slab insulation extends down from the top of the slab to at least 1.0 ft. OR down to at least the bottom of the slab then horizontally for a total distance of 1.0 ft. Slab edge insulation must have a 2 inch termite inspection gap.				
Solar Heat Gain Coefficient:				
Solar Heat Gain Coefficient (SHGC) values are determined in accordance with the NFRC test procedure or taken from the default table.				
Air Leakage:				
Joints (including rim joist junctions), attic access openings, penetrations, and all other such openings in the building envelope that are sources of air leakage are sealed with caulk, gasketed, weatherstripped or otherwise sealed with an air barrier material, suitable film or solid material.				
Air barrier and sealing exists on common walls between dwelling units, on exterior walls behind tubs/showers, and in openings between window/door jambs and framing.				
Recessed lights in the building thermal envelope are 1) type IC rated and ASTM E283 labeled and 2) sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.				
Access doors separating conditioned from unconditioned space (e.g., attic, unconditioned basements and crawlspaces) are weather-stripped and insulated (without insulation compression or damage). Where loose fill insulation exists, a wood framed or equivalent baffle is installed to maintain insulation application. Required insulation values are as follows:				

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Report date: 04/25/12

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(1) Hinged vertical doors have a minimum of R-5 insulation.
(2) Hatches/scuttle hole covers have a minimum of R-10 insulation.
(3) Pull down stairs have a minimum of R-5 rigid insulation.
Site-built masonry fireplaces have doors and comply with Section R1006 of the North Carolina Residential Code for combustion air.
Air Sealing and Insulation:
Public and the second in the s
 (1) Post rough-in blower door test result of less than or equal to 5 ACH at 50 pascals.
(2) Post rough-in blower door test result of less than or equal to 0.30 CFM50/square foot*of surface area.
permit holder or registered design professional as completed.
(a) Ceiling/attic: Sealants or gaskets provide a continuous air barrier system joining the top plate of framed walls with either the ceiling drywall or the top edge of wall drywall to prevent air leakage. Top plate penetrations are sealed.
(b) Ceiling/attic: For ceiling finishes that are not air barrier systems such as tongue-and-groove planks, air barrier systems (e.g., taped house wrap) are used above the finish.
(c) Above Grade Walls: Sill plate is gasketed or sealed to subfloor or slab.
(d) Windows/doors: Space between window and door jambs and framing are sealed.
(e) Floors: Air barrier system is installed at any exposed edge of insulation.
Sunrooms:
Company with a self-resolven a hell house a resolvent for contration CLICC as 0.40 for all elemina
Materials Identification and Installation:
Materials and equipment are installed in accordance with the manufacturer's installation instructions.
Materials and equipment are identified so that compliance can be determined.
Insulation R-values and glazing U-factors are clearly marked on the building plans or specifications.
Duct Insulation:
Supply and return ducts in unconditioned space and outdoors are insulated to R-8. Supply ducts inside semi-conditioned space are insulated to R-4.
Duct Construction and Testing:
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But the color of the state of the second of
Postconstruction total duct leakage test (including air handler enclosure) has been performed and results are less than or equal to 91.6 c/m (6 c/m per 100 ft2 of conditioned floor area) pressure differential of 0.1 inches w.g. Tests are performed according to North Carolina Energy Conservation Code guidelines (Section 403.2.2).
Energy delicer valier code guidelines (decilor 400.2.2).
Temperature Controls:
heating system and has set-points initialized at 70 degree F for the heating cycle and 78 degree F for the cooling cycle.
Heat pumps having supplementary electric-resistance heat have controls that prevent supplemental heat operation when the compressor can meet the heating load.
Heating and Cooling Equipment Sizing:
Heating and cooling equipment shall be sized in accordance with the North Carolina Mechanical Code.
For each and the second
Circulating Service Hot Water Systems:
at the state of th
Circulating service hot water systems include an automatic or accessible manual switch to turn off the circulating pump when the system is not in use.
11 d. d. A.
Heating and Cooling Piping Insulation:
LIVAC claims required fixed above 105 degrees 5 or obilled fluids below 55 degrees 5 or insulated to P.3

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	Australia de Para Las
3	Swimming Pools:
	Heated swimming pools have an on/off heater switch.
	Pool heaters operating on natural gas or LPG have an electronic pilot light.  Timer switches on pool heaters and pumps are present.
	Exceptions:
	Where public health standards require continuous pump operation.
	Where pumps operate within solar- and/or waste-heat-recovery systems.
	Heated swimming pools and in-ground permenantly installed spas have a vapor-retardent cover.  Exceptions:
, .	Covers are not required when 70% of the heating energy is from site-recovered energy or solar energy source.
L	ighting Requirements:
	A minimum of 75 percent of the lamps in permanently installed lighting fixtures can be categorized as one of the following:
	(a) Compact fluorescent
	(b) T-8 or smaller diameter linear fluorescent
	(c) 40 lumens per watt for lamp wattage <= 15
	(d) 50 lumens per watt for lamp wattage > 15 and <= 40
	(e) 60 lumens per watt for lamp wattage > 40
c	Other Requirements:
	Snow- and ice-melting systems with energy supplied from the service to a building shall include automatic controls capable of shutting off the system when a) the pavement temperature is above 50 degrees F, b) no precipitation is falling, and c) the outdoor temperature is above 40 degrees F (a manual shutoff control is also permitted to satisfy requirement 'c').
C	Certificate:
	A permanent certificate is provided on or in the electrical distribution panel listing the predominant insulation R-values; window U-factors; type and efficiency of space-conditioning and water heating equipment. The certificate does not cover or obstruct the visibility of the circuit directory label, service disconnect label or other required labels.
NOT	ES TO FIELD: (Building Department Use Only)
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Insulation Rating	R-Value	
Ceiling / Roof	38.00	
Wall	19.00	
Floor / Foundation	5.00	
Ductwork (unconditioned spaces):		
Glass & Door Rating	U-Factor	SHGC
Window	0.32	0.40
Door	0.19	0.40
Heating & Cooling Equipment	Efficiency	
Heating System:		
Cooling System:		
Water Heater:		
Building Air Leakage and Duct Test Resu	lts	elje Dr.
Air Leakage Compliance Method:	Visual In:	spection
	Air Leaka	ige Test
Building Air Leakage Test Results		
Name of Air Leakage Tester		
Duct Tightness Test Results		
Name of Duct Tester		
Name <sup>.</sup>	Date:	

Comments: