RES*check* Software Version 4.6.2.1

Compliance Certificate

Project Title: Lot 2053 Hawkeswater Cottages Capri TH

Energy Code:	**North Carolina Energy Conservation Code**
Location:	**Leland, North Carolina**
Construction Type:	**Multifamily**
Project Type:	**New construction**
Building Orientation:	**Bldg. faces 202 deg. from North**
Glazing Area Percentage:	**9%**
Heating Degree Days:	**2470**
Climate Zone:	**3**

Construction Site:

Lot 2053 Hawkeswater Cottages
10134 Morecambe Blvd. Unit #1
Leland, NC 28451

Owner/Agent:

Designer/Contractor:

DR Horton Coastal Carolinas
NC

Compliance: **Passes using UA trade-off**

Compliance: **2.8% Better Than Code** Maximum UA: **461** Your UA: **448** Maximum SHGC: **0.30** Your SHGC: **0.28**

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: Raised or Energy Truss	1561	30.0	0.0		50
Wall 1: Wood Frame, 16" o.c. Orientation: Unspecified	36	13.0	0.0		1
Door 1: Solid Orientation: Unspecified	20			0.150	3
Wall 2: Wood Frame, 16" o.c. Orientation: Unspecified	126	13.0	0.0		10
Wall 3: Wood Frame, 16" o.c. Orientation: Unspecified	79	13.0	0.0		5
Door 2: Solid Orientation: Unspecified	18			0.300	5
Wall 4: Wood Frame, 16" o.c. Orientation: Unspecified	21	13.0	0.0		2
Wall 5: Wood Frame, 16" o.c. Orientation: Unspecified	101	13.0	0.0		8
Wall 6: Wood Frame, 16" o.c. Orientation: Unspecified	376	13.0	0.0		28
Window 1: Vinyl/Fiberglass Frame:Double Pane with Low-E SHGC: 0.28 Orientation: Unspecified	18			0.320	6
Window 1 copy 1: Vinyl/Fiberglass Frame:Double Pane with Low-E SHGC: 0.28 Orientation: Unspecified	18			0.320	6
Wall 7: Wood Frame, 16" o.c. Orientation: Unspecified	180	13.0	0.0		10
Window 3: Vinyl/Fiberglass Frame:Double Pane with Low-E SHGC: 0.30 Orientation: Unspecified	4			0.280	1
Window 4: Vinyl/Fiberglass Frame:Double Pane with Low-E SHGC: 0.28 Orientation: Unspecified	18			0.320	6
Window 4 copy 1: Vinyl/Fiberglass Frame:Double Pane with Low-E SHGC: 0.28	18			0.320	6

Orientation: Unspecified					
Window 4 copy 2: Vinyl/Fiberglass Frame:Double Pane with Low-E SHGC: 0.28 Orientation: Unspecified	18			0.320	6
Wall 8: Wood Frame, 16" o.c. Orientation: Unspecified	72	13.0	0.0		6
Wall 9: Wood Frame, 16" o.c. Orientation: Unspecified	135	13.0	0.0		8
Door 3: Glass SHGC: 0.29 Orientation: Unspecified	40			0.330	13
Wall 10: Wood Frame, 16" o.c. Orientation: Unspecified	522	13.0	0.0		43
Wall 11: Wood Frame, 16" o.c. Orientation: Unspecified	101	13.0	0.0		6
Window 7: Vinyl/Fiberglass Frame:Double Pane with Low-E SHGC: 0.28 Orientation: Unspecified	16			0.320	5
Window 7 copy 1: Vinyl/Fiberglass Frame:Double Pane with Low-E SHGC: 0.28 Orientation: Unspecified	16			0.320	5
Wall 12: Wood Frame, 16" o.c. Orientation: Unspecified	36	13.0	0.0		3
Floor 1: Slab-On-Grade:Unheated Insulation depth: 3.0'	198		0.0		206

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 RES*check* Version 4.6.2.1 and to comply with the mandatory requirements listed in the RES*check* Inspection Checklist.

Frank T. Grzandziel Energy Rater 1016257	Frank Grzandziel	August 04, 2016
Name - Title	Signature	Date

North Carolina Energy Efficiency Certificate

Insulation Rating	R-Value
Ceiling / Roof	30.00
Above-Grade Wall	13.00
Below-Grade Wall	0.00
Floor	0.00
Ductwork (unconditioned spaces):	_____

Glass & Door Rating	U-Factor	SHGC
Window	0.32	0.28
Door	0.33	0.29

Heating & Cooling Equipment	Efficiency
Heating System:_____	_____
Cooling System:_____	_____
Water Heater:_____	_____

Building Air Leakage and Duct Test Results	
Air Leakage Compliance Method:	___ Visual Inspection ___ Air Leakage Test
Building Air Leakage Test Results	_____
Name of Air Leakage Tester	_____
Duct Tightness Test Results	_____
Name of Duct Tester	_____

Name: _____ **Date:** _____

Comments: