



# Compliance Certificate

Project Scott house

Energy Code: **2009 IECC**  
 Location: **Cumberland County, Maine**  
 Construction Type: **Single-family**  
 Project Type: **New Construction**  
 Orientation: **Bldg. faces 135 deg. from North**  
 Conditioned Floor Area: **2,364 ft2**  
 Glazing Area: **14%**  
 Climate Zone: **6 (8499 HDD)**  
 Permit Date:  
 Permit Number:

Construction Site:

Owner/Agent:

Designer/Contractor:

**Compliance: Passes using performance alternative**

Compliance: **0.2% Better Than Code**

## Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Ceiling: Flat or Scissor Truss	1,412	60.0	60.0	0.010	14
Wall: Wood Frame, 16in. o.c. Orientation: Front	476	26.0	26.0	0.021	3
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Front	13			0.300	4
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Front	13			0.300	4
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Front	13			0.300	4
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Front	13			0.300	4
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Front	8			0.300	2
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Front	8			0.300	2
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Front	8			0.300	2
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Front	8			0.300	2

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Front	8			0.300	2
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Front	7			0.300	2
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Front	7			0.300	2
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Front	6			0.300	2
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Front	19			0.300	6
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Front	19			0.300	6
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Front	9			0.300	3
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Front	15			0.300	5
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Front	15			0.300	5
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Front	15			0.300	5
Door: Glass SHGC: 0.28 Orientation: Front	41			0.300	12
Door: Glass SHGC: 0.28 Orientation: Front	21			0.300	6
Door: Solid Orientation: Front	21			0.300	6
Door: Solid Orientation: Front	21			0.300	6
Door: Solid Orientation: Front	21			0.300	6
Wall: Wood Frame, 16in. o.c. Orientation: Back	1,328	26.0	26.0	0.021	25
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Back	16			0.300	5
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Back	16			0.300	5
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Back	16			0.300	5
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Back	16			0.300	5
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Back	16			0.300	5
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Back	16			0.300	5

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Back	16			0.300	5
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Back	9			0.300	3
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Back	9			0.300	3
Window: Vinyl Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Back	9			0.300	3
Wall: Wood Frame, 16in. o.c. Orientation: Left side	527	26.0	26.0	0.021	11
Wall: Wood Frame, 16in. o.c. Orientation: Right side	527	26.0	26.0	0.021	11
Basement: Solid Concrete or Masonry Orientation: Front Wall height: 8.0' Depth below grade: 6.0' Insulation depth: 0.0'	224	0.0	1.1	0.291	65
Basement: Solid Concrete or Masonry Orientation: Back Wall height: 8.0' Depth below grade: 6.0' Insulation depth: 0.0'	224	0.0	1.1	0.291	65
Basement: Solid Concrete or Masonry Orientation: Left side Wall height: 8.0' Depth below grade: 6.0' Insulation depth: 0.0'	248	0.0	1.1	0.291	72
Basement: Solid Concrete or Masonry Orientation: Right side Wall height: 8.0' Depth below grade: 6.0' Insulation depth: 0.0'	248	0.0	1.1	0.291	72
Floor: All-Wood Joist/Truss Over Uncond. Space	952	30.0	30.0	0.016	15

## Mechanical Equipment

Description	Fuel type	Efficiency
Other (Except Gas-Fired Steam)		95 AFUE

*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 2009 IECC requirements in REScheck Version 5.5.0 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

\_\_\_\_\_  
Name - Title

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



# Inspection Checklist

Energy Code: 2009 IECC

Requirements: 96.0% were addressed directly in the REScheck software

Text in the "Comments/Assumptions" column is provided by the user in the REScheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Pre-Inspection/Plan Review	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
103.2 [PR1] <sup>1</sup> 	Construction drawings and documentation demonstrate energy code compliance for the building envelope.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
103.2, 403.7 [PR3] <sup>1</sup> 	Construction drawings and documentation demonstrate energy code compliance for lighting and mechanical systems. Systems serving multiple dwelling units must demonstrate compliance with the commercial code.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.6 [PR2] <sup>2</sup> 	Heating and cooling equipment is sized per ACCA Manual S based on loads per ACCA Manual J or other approved methods.	Heating: Btu/hr _____ Cooling: Btu/hr _____	Heating: Btu/hr _____ Cooling: Btu/hr _____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

**Additional Comments/Assumptions:**

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1 [FO4] <sup>1</sup>	Conditioned basement wall insulation R-value. Where interior insulation is used, verification may need to occur during Insulation Inspection. Not required in warm-humid locations in Climate Zone 3.	R-_____	R-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.2 [FO5] <sup>1</sup>	Conditioned basement wall insulation installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.2.7 [FO6] <sup>1</sup>	Conditioned basement wall insulation depth of burial or distance from top of wall.	_____ ft	_____ ft	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.2.1 [FO11] <sup>2</sup>	A protective covering is installed to protect exposed exterior insulation and extends a minimum of 6 in. below grade.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.8 [FO12] <sup>2</sup>	Snow- and ice-melting system controls installed.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement is not applicable.

**Additional Comments/Assumptions:**

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1, 402.3.4 [FR1] <sup>1</sup>	Door U-factor.	U-____	U-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
402.1.1, 402.3.1, 402.3.3, 402.5 [FR2] <sup>1</sup>	Glazing U-factor (area-weighted average).	U-____	U-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.1.3 [FR4] <sup>1</sup>	U-factors of fenestration products are determined in accordance with the NFRC test procedure or taken from the default table.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.4.4 [FR20] <sup>1</sup>	Fenestration that is not site built is listed and labeled as meeting AAMA/WDMA/CSA 101/I.S.2/A440 or has infiltration rates per NFRC 400 that do not exceed code limits.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.4.5 [FR16] <sup>2</sup>	IC-rated recessed lighting fixtures sealed at housing/interior finish and labeled to indicate ≤2.0 cfm leakage at 75 Pa.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
405.2 [FR25] <sup>1</sup>	All ducts in unconditioned spaces or outside the building envelope are insulated to ≥R-6.	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.2.2 [FR13] <sup>1</sup>	All joints and seams of air ducts, air handlers, filter boxes, and building cavities used as return ducts are sealed.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.2.3 [FR15] <sup>3</sup>	Building cavities are not used for supply ducts.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.3 [FR17] <sup>2</sup>	HVAC piping conveying fluids above 105 °F or chilled fluids below 55 °F are insulated to ≥R-3.	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement is not applicable.
403.4 [FR18] <sup>2</sup>	Circulating service hot water pipes are insulated to R-2.	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement is not applicable.
403.5 [FR19] <sup>2</sup>	Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

**Additional Comments/Assumptions:**

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.1 [IN13] <sup>2</sup>	All installed insulation is labeled or the installed R-values provided.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.1.1, 402.2.5, 402.2.6 [IN1] <sup>1</sup>	Floor insulation R-value.	R-_____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	R-_____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.2, 402.2.6 [IN2] <sup>1</sup>	Floor insulation installed per manufacturer's instructions, and in substantial contact with the underside of the subfloor.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.1.1, 402.2.4, 402.2.5 [IN3] <sup>1</sup>	Wall insulation R-value. If this is a mass wall with at least 1/2 of the wall insulation on the wall exterior, the exterior insulation requirement applies.	R-_____ <input type="checkbox"/> Wood <input type="checkbox"/> Mass <input type="checkbox"/> Steel	R-_____ <input type="checkbox"/> Wood <input type="checkbox"/> Mass <input type="checkbox"/> Steel	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.2 [IN4] <sup>1</sup>	Wall insulation is installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.



**Additional Comments/Assumptions:**

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1, 402.2.1, 402.2.2 [FI1] <sup>1</sup>	Ceiling insulation R-value. Where > R-30 is required, R-30 can be used if insulation is not compressed at eaves. R-30 may be used for 500 ft <sup>2</sup> or 20% (whichever is less) where sufficient space is not available.	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.1.1.1, 303.2 [FI2] <sup>1</sup>	Ceiling insulation installed per manufacturer's instructions. Blown insulation marked every 300 ft <sup>2</sup> .			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.4.2, 402.4.2.1 [FI17] <sup>1</sup>	Building envelope tightness verified by blower door test result of <7 ACH at 50 Pa. This requirement may instead be met via visual inspection, in which case verification may need to occur during Insulation Inspection.	ACH 50 = ____	ACH 50 = ____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.2.2 [FI4] <sup>1</sup>	Post construction duct tightness test result of ≤8 cfm to outdoors, or ≤12 cfm across systems. Or, rough-in test result of ≤6 cfm across systems or ≤4 cfm without air handler. Rough-in test verification may need to occur during Framing Inspection.	____ cfm	____ cfm	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.6 [FI5] <sup>1</sup>	Heating and cooling equipment type and capacity as per plans.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.1.1 [FI9] <sup>2</sup>	Programmable thermostats installed on forced air furnaces.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement is not applicable.
403.1.2 [FI10] <sup>2</sup>	Heat pump thermostat installed on heat pumps.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement is not applicable.
403.4 [FI11] <sup>2</sup>	Circulating service hot water systems have automatic or accessible manual controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement is not applicable.
403.9.1 [FI12] <sup>3</sup>	Readily accessible switch on heaters for swimming pools.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.9.2 [FI19] <sup>3</sup>	Timer switches on pool heaters and pumps are present.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.9.3 [FI20] <sup>3</sup>	Heated swimming pools have a cover. Covers on pools heated over 90 °F are insulated to R-12.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

1 High Impact (Tier 1)    2 Medium Impact (Tier 2)    3 Low Impact (Tier 3)



Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
401.3 [F17] <sup>2</sup> 	Compliance certificate posted.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
303.3 [F18] <sup>3</sup> 	Manufacturer manuals for mechanical and water heating equipment have been provided.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

**Additional Comments/Assumptions:**

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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# 2009 IECC Energy Efficiency Certificate

Insulation Rating	R-Value
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<b>Above-Grade Wall</b>	<b>52.00</b>
<b>Below-Grade Wall</b>	<b>1.10</b>
<b>Floor</b>	<b>60.00</b>
<b>Ceiling / Roof</b>	<b>120.00</b>
<b>Ductwork (unconditioned spaces):</b>	_____

Glass & Door Rating	U-Factor	SHGC
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<b>Window</b>	<b>0.30</b>	<b>0.28</b>
<b>Door</b>	<b>0.30</b>	<b>0.28</b>

Heating & Cooling Equipment	Efficiency
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<b>Other (Except Gas-Fired Steam)</b>	<b>95 AFUE</b>
<b>Cooling System:</b> _____	_____
<b>Water Heater:</b> _____	_____

**Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Comments**