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Project NEW Construction

Energy Code: 2009 IECC

Location: Portland, Maine
Construction Type: Single-family
Project Type: New Construction

Conditioned Floor Area: **2,706 ft2** Glazing Area **13%**

Climate Zone: 6 (7378 HDD)

Permit Date: Permit Number:

Construction Site: 12 Graystone Lane Portland, ME 04103 Owner/Agent: Leonard Anderson 543 Allen Avenue Portland, ME 04103 207.233.1715

 207.233.1715
 207.233.1715

 lenanderson@aol.com
 lenanderson@aol.com

Designer/Contractor:

Leonard Anderson

543 Allen Avenue

Portland, ME 04103

Compliance: Passes using UA trade-off

Compliance: 0.0% Better Than Code Maximum UA: 404 Your UA: 404

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.

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Floors First Floor: All-Wood Joist/Truss:Over Unconditioned Space	1,136	30.0	0.0	0.033	37
Front Walls First Floor: Wood Frame, 16" o.c.	400	21.0	0.0	0.057	14
Windows: Vinyl/Fiberglass Frame:Double Pane with Low-E	117			0.350	41
Door: Glass	20			0.350	7
Door: Solid	20			0.350	7
Left Walls First Floor: Wood Frame, 16" o.c.	440	21.0	0.0	0.057	22
Windows: Vinyl/Fiberglass Frame:Double Pane with Low-E	54			0.350	19
Back Walls First Floor: Wood Frame, 16" o.c.	400	21.0	0.0	0.057	18
Windows: Vinyl/Fiberglass Frame:Double Pane with Low-E	33			0.350	12
Doors: Glass	47			0.350	16
Right Walls First Floor: Wood Frame, 16" o.c.	440	21.0	0.0	0.057	25
Ceilings First Floor (Half Bath, Kitchen, Dining): Cathedral Ceiling	80	38.0	0.0	0.027	2
Floors Second Floor (over Garage): All-Wood Joist/Truss:Over Unconditioned Space	505	30.0	0.0	0.033	17
Floors Second Floor (over Porch): All-Wood Joist/Truss:Over Outside Air	32	30.0	0.0	0.033	1
Front Walls Second Floor: Wood Frame, 16" o.c.	392	21.0	0.0	0.057	19

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Reviewed for Code Compliance

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Facto	7/ 19/2 01
Windows: Vinyl/Fiberglass Frame:Double Pane with Low-E	55			0.350	19
Left Walls Second Floor: Wood Frame, 16" o.c.	328	21.0	0.0	0.057	19
Back Walls Second Floor: Wood Frame, 16" o.c.	392	21.0	0.0	0.057	20
Windows: Vinyl/Fiberglass Frame:Double Pane with Low-E	47			0.350	16
Right Walls Second Floor: Wood Frame, 16" o.c.	328	21.0	0.0	0.057	16
Windows: Vinyl/Fiberglass Frame:Double Pane with Low-E	46			0.350	16
Ceilings Second Floor: Flat Ceiling or Scissor Truss	1,570	49.0	0.0	0.026	41
Ceilings Second Floor (M.Bedroom): Cathedral Ceiling	10	38.0	0.0	0.027	0

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 4.6.5 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Michael Allison	Michael Allison	4-10-18
Name - Title	Signature	Date

Project Title: NEW Construction Report date: 04/10/18



REScheck Software Version 4.6.5

Inspection Checklist



Energy Code: 2009 IECC

Requirements: 0.0% 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] ¹	Construction drawings and documentation demonstrate energy code compliance for the building envelope.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
103.2, 403.7 [PR3] ¹	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.			□Complies □Does Not □Not Observable □Not Applicable	
403.6 [PR2] ²	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	□Complies □Does Not □Not Observable □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	Foundation Inspection	Complies?	Comments/Assumptions Reviewed for Code Co Permitting and Inspection Approved with Cor	s Departm
303.2.1 [FO11] ²	A protective covering is installed to protect exposed exterior insulation and extends a minimum of 6 in. below grade.	□Complies □Does Not □Not Observable □Not Applicable	07/19/20	
403.8 [FO12] ²	Snow- and ice-melting system controls installed.	□Complies □Does Not □Not Observable □Not Applicable		

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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] ¹	Door U-factor.	U	U	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Asser ্যুদ/ e্ছ /201 <mark>৪</mark> table for values.
402.1.1, 402.3.1, 402.3.3, 402.5 [FR2] ¹	Glazing U-factor (area-weighted average).	U	U	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.1.3 [FR4] ¹	U-factors of fenestration products are determined in accordance with the NFRC test procedure or taken from the default table.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
402.4.4 [FR20] ¹	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.			□Complies □Does Not □Not Observable □Not Applicable	
402.4.5 [FR16] ²	IC-rated recessed lighting fixtures sealed at housing/interior finish and labeled to indicate ≤2.0 cfm leakage at 75 Pa.			□Complies □Does Not □Not Observable □Not Applicable	
403.2.1 [FR12] ¹	Supply ducts in attics are insulated to ≥R-8. All other ducts in unconditioned spaces or outside the building envelope are insulated to ≥R-6.	R R	R R	□Complies □Does Not □Not Observable □Not Applicable	
403.2.2 [FR13] ¹	All joints and seams of air ducts, air handlers, filter boxes, and building cavities used as return ducts are sealed.			□Complies □Does Not □Not Observable □Not Applicable	
403.2.3 [FR15] ³	Building cavities are not used for supply ducts.			□Complies □Does Not □Not Observable □Not Applicable	
403.3 [FR17] ²	HVAC piping conveying fluids above 105 °F or chilled fluids below 55 °F are insulated to ≥R-3.	R	R	□Complies □Does Not □Not Observable □Not Applicable	
403.4 [FR18] ²	Circulating service hot water pipes are insulated to R-2.	R	R	□Complies □Does Not □Not Observable □Not Applicable	
403.5 [FR19] ²	Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.			□Complies □Does Not □Not Observable □Not Applicable	

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Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.1 [IN13] ²	All installed insulation is labeled or the installed R-values			□Complies □Does Not	07/19/2018
•	provided.			□Not Observable □Not Applicable	
402.1.1, 402.2.5,	Floor insulation R-value.	R Wood	R Wood	□Complies □Does Not	See the Envelope Assemblies table for values.
402.2.6 [IN1] ¹		☐ Steel	☐ Steel	□Not Observable □Not Applicable	
303.2, 402.2.6	Floor insulation installed per manufacturer's instructions, and			□Complies □Does Not	
[IN2] ¹	in substantial contact with the underside of the subfloor.			□Not Observable □Not Applicable	
402.1.1, 402.2.4, 402.2.5 [IN3] ¹	Wall insulation R-value. If this is a mass wall with at least ½ of the wall insulation on the wall exterior, the exterior insulation requirement applies.	R Wood Mass Steel	R Wood Mass Steel	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.2 [IN4] ¹	Wall insulation is installed per manufacturer's instructions.			□Complies □Does Not □Not Observable □Not Applicable	

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Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptionscorp
402.1.1, 402.2.1, 402.2.2 [FI1] ¹	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 ft² or 20% (whichever is less) where sufficient space is not available.	R Wood Steel	R Wood Steel	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Asser ালা/৭৩ /2018 table for values.
303.1.1.1, 303.2 [FI2] ¹	Ceiling insulation installed per manufacturer's instructions. Blown insulation marked every 300 ft².			□Complies □Does Not □Not Observable □Not Applicable	
402.2.3 [FI3] ¹	Attic access hatch and door insulation ≥R-value of the adjacent assembly.	R	R	□Complies □Does Not □Not Observable □Not Applicable	
402.4.2, 402.4.2.1 [FI17] ¹	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 =	□Complies □Does Not □Not Observable □Not Applicable	
403.2.2 [FI4] ¹	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	□Complies □Does Not □Not Observable □Not Applicable	
403.1.1 [FI9] ²	Programmable thermostats installed on forced air furnaces.			□Complies □Does Not □Not Observable □Not Applicable	
403.1.2 [FI10] ²	Heat pump thermostat installed on heat pumps.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.4 [FI11] ²	Circulating service hot water systems have automatic or accessible manual controls.			□Complies □Does Not □Not Observable □Not Applicable	
404.1 [FI6] ¹	50% of lamps in permanent fixtures are high efficacy lamps.			□Complies □Does Not □Not Observable □Not Applicable	
401.3 [FI7] ²	Compliance certificate posted.			□Complies □Does Not □Not Observable □Not Applicable	
303.3 [FI18] ³	Manufacturer manuals for mechanical and water heating equipment have been provided.			□Complies □Does Not □Not Observable □Not Applicable	

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Insulation Rating	R-Value	
Above-Grade Wall	21.00	
Below-Grade Wall	0.00	
Floor	30.00	
Ceiling / Roof	49.00	
Ductwork (unconditioned spaces):		
Glass & Door Rating	U-Factor	SHGC
Window	0.35	
Door	0.35	
Heating & Cooling Equipment	Efficiency	
Heating System:		
Cooling System:		
Water Heater:		
Name:	Date <u>:</u>	

Comments