



# Compliance Certificate

Project Windy Hill Water Mill, NY

Energy Code: **2020 NYStretch - 2018 IECC**  
 Location: **Southampton, New York**  
 Construction Type: **Single-family**  
 Project Type: **New Construction**  
 Conditioned Floor Area: **9,718 ft2**  
 Glazing Area: **37%**  
 Climate Zone: **4 (5685 HDD)**  
 Permit Date:  
 Permit Number:

Construction Site:  
Windy Hill Water Mill, NY

Owner/Agent:  
Windy Hill Water Mill, NY

Designer/Contractor:  
Energy Rating Service, Inc Matt  
Wahl Islip Terrace, NY 11752 631-  
566-8439  
energyratingservice@yahoo.com

## Compliance: Passes using UA trade-off

Compliance: **0.3% Better Than Code** Maximum UA: **1220** Your UA: **1216** Maximum SHGC: **0.40** Your SHGC: **0.30**

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.

Slab-on-grade tradeoffs are no longer considered in the UA or performance compliance path in REScheck. Each slab-on-grade assembly in the specified climate zone must meet the minimum energy code insulation R-value and depth requirements.

## Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Prop. U-Factor	Req. U-Factor	Prop. UA	Req. UA
Roof Rafters: Cathedral Ceiling	4,720	44.0	0.0	0.024	0.026	113	123
Wall 1: Wood Frame, 16" o.c.	72	26.0	0.0	0.052	0.045	3	3
Window 1: Other SHGC: 0.30	10			0.270	0.270	3	3
Wall 2: Wood Frame, 16" o.c.	141	26.0	0.0	0.052	0.045	6	5
Window 2: Other SHGC: 0.30	24			0.270	0.270	7	7
Wall 3: Wood Frame, 16" o.c.	26	26.0	0.0	0.052	0.045	1	1
Wall 4: Wood Frame, 16" o.c.	46	26.0	0.0	0.052	0.045	2	2
Wall 5: Wood Frame, 16" o.c.	259	26.0	0.0	0.052	0.045	7	6
Window 3: Other SHGC: 0.30	71			0.270	0.270	19	19
Window 4: Other SHGC: 0.30	57			0.270	0.270	15	15
Wall 6: Wood Frame, 16" o.c.	190	26.0	0.0	0.052	0.045	7	6
Window 5: Other SHGC: 0.30	48			0.270	0.270	13	13
Wall 7: Wood Frame, 16" o.c.	146	26.0	0.0	0.052	0.045	7	6

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Prop. U-Factor	Req. U-Factor	Prop. UA	Req. UA
Window 6: Other SHGC: 0.30	12			0.270	0.270	3	3
Wall 8: Wood Frame, 16" o.c.	118	26.0	0.0	0.052	0.045	6	5
Wall 9: Wood Frame, 16" o.c.	158	26.0	0.0	0.052	0.045	6	5
Window 7: Other SHGC: 0.30	24			0.270	0.270	7	7
Window 8: Other SHGC: 0.30	24			0.270	0.270	7	7
Wall 10: Wood Frame, 16" o.c.	200	26.0	0.0	0.052	0.045	8	7
Window 9: Other SHGC: 0.30	24			0.270	0.270	7	7
Window 10: Other SHGC: 0.30	24			0.270	0.270	7	7
Wall 11: Wood Frame, 16" o.c.	223	26.0	0.0	0.052	0.045	8	7
Window 11: Other SHGC: 0.30	24			0.270	0.270	7	7
Window 12: Other SHGC: 0.30	24			0.270	0.270	7	7
Window 13: Other SHGC: 0.30	24			0.270	0.270	7	7
Wall 12: Wood Frame, 16" o.c.	151	26.0	0.0	0.052	0.045	7	6
Window 14: Other SHGC: 0.30	24			0.270	0.270	7	7
Wall 13: Wood Frame, 16" o.c.	223	26.0	0.0	0.052	0.045	9	8
Window 15: Other SHGC: 0.30	24			0.270	0.270	7	7
Window 16: Other SHGC: 0.30	24			0.270	0.270	7	7
Wall 14: Wood Frame, 16" o.c.	154	26.0	0.0	0.052	0.045	7	6
Window 17: Other SHGC: 0.30	24			0.270	0.270	7	7
Wall 15: Wood Frame, 16" o.c.	210	26.0	0.0	0.052	0.045	7	6
Window 18: Other SHGC: 0.30	36			0.270	0.270	10	10
Window 19: Other SHGC: 0.30	36			0.270	0.270	10	10
Wall 16: Wood Frame, 16" o.c.	79	26.0	0.0	0.052	0.045	3	2
Window 20: Other SHGC: 0.30	24			0.270	0.270	7	7
Wall 17: Wood Frame, 16" o.c.	43	26.0	0.0	0.052	0.045	2	2
Wall 18: Wood Frame, 16" o.c.	194	26.0	0.0	0.052	0.045	1	1
Window 21: Other SHGC: 0.30	174			0.270	0.270	47	47
Wall 19: Wood Frame, 16" o.c.	43	26.0	0.0	0.052	0.045	2	2
Wall 20: Wood Frame, 16" o.c.	194	26.0	0.0	0.052	0.045	4	3
Window 22: Other SHGC: 0.30	117			0.270	0.270	32	32
Wall 21: Wood Frame, 16" o.c.	104	26.0	0.0	0.052	0.045	5	5
Wall 22: Wood Frame, 16" o.c.	187	26.0	0.0	0.052	0.045	4	3
Window 23: Other SHGC: 0.30	115			0.270	0.270	31	31

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Prop. U-Factor	Req. U-Factor	Prop. UA	Req. UA
Wall 23: Wood Frame, 16" o.c.	125	26.0	0.0	0.052	0.045	6	6
Wall 24: Wood Frame, 16" o.c.	223	26.0	0.0	0.052	0.045	9	8
Window 24: Other SHGC: 0.30	24			0.270	0.270	7	7
Window 25: Other SHGC: 0.30	24			0.270	0.270	7	7
Wall 25: Wood Frame, 16" o.c.	397	26.0	0.0	0.052	0.045	9	8
Window 26: Other SHGC: 0.30	24			0.270	0.270	7	7
Window 27: Other SHGC: 0.30	24			0.270	0.270	7	7
Window 28: Other SHGC: 0.30	97			0.270	0.270	26	26
Window 29: Other SHGC: 0.30	68			0.270	0.270	18	18
Wall 26: Wood Frame, 16" o.c.	440	26.0	0.0	0.052	0.045	13	11
Window 30: Other SHGC: 0.30	97			0.270	0.270	26	26
Window 31: Other SHGC: 0.30	97			0.270	0.270	26	26
Wall 27: Wood Frame, 16" o.c.	400	26.0	0.0	0.052	0.045	9	8
Window 32: Other SHGC: 0.30	133			0.270	0.270	36	36
Window 33: Other SHGC: 0.30	97			0.270	0.270	26	26
Wall 28: Wood Frame, 16" o.c.	190	26.0	0.0	0.052	0.045	5	4
Window 34: Other SHGC: 0.30	97			0.270	0.270	26	26
Wall 29: Wood Frame, 16" o.c.	154	26.0	0.0	0.052	0.045	5	4
Window 35: Other SHGC: 0.30	55			0.270	0.270	15	15
Wall 30: Wood Frame, 16" o.c.	171	26.0	0.0	0.052	0.045	4	3
Window 36: Other SHGC: 0.30	97			0.270	0.270	26	26
Wall 31: Wood Frame, 16" o.c.	217	26.0	0.0	0.052	0.045	9	7
Window 37: Other SHGC: 0.30	28			0.270	0.270	8	8
Window 38: Other SHGC: 0.30	24			0.270	0.270	7	7
Wall 32: Wood Frame, 16" o.c.	236	26.0	0.0	0.052	0.045	12	11
Wall 33: Wood Frame, 16" o.c.	59	26.0	0.0	0.052	0.045	3	3
Wall 34: Wood Frame, 16" o.c.	134	26.0	0.0	0.052	0.045	6	5
Window 39: Other SHGC: 0.30	24			0.270	0.270	7	7
Wall 35: Wood Frame, 16" o.c.	102	26.0	0.0	0.052	0.045	3	3
Window 40: Other SHGC: 0.30	39			0.270	0.270	11	11
Wall 36: Wood Frame, 16" o.c.	64	26.0	0.0	0.052	0.045	3	3
Wall 37: Wood Frame, 16" o.c.	69	26.0	0.0	0.052	0.045	2	2
Window 41: Other SHGC: 0.30	24			0.270	0.270	7	7

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Prop. U-Factor	Req. U-Factor	Prop. UA	Req. UA
Wall 38: Wood Frame, 16" o.c.	51	26.0	0.0	0.052	0.045	3	2
Wall 39: Wood Frame, 16" o.c.	13	26.0	0.0	0.052	0.045	1	1
Wall 40: Wood Frame, 16" o.c.	194	26.0	0.0	0.052	0.045	2	1
Window 42: Other SHGC: 0.30	164			0.270	0.270	44	44
Wall 41: Wood Frame, 16" o.c.	49	26.0	0.0	0.052	0.045	1	1
Window 43: Other SHGC: 0.30	24			0.270	0.270	6	6
Wall 42: Wood Frame, 16" o.c.	184	26.0	0.0	0.052	0.045	10	8
Wall 43: Wood Frame, 16" o.c.	13	26.0	0.0	0.052	0.045	1	1
Wall 44: Wood Frame, 16" o.c.	194	26.0	0.0	0.052	0.045	1	1
Window 44: Other SHGC: 0.30	177			0.270	0.270	48	48
Wall 45: Wood Frame, 16" o.c.	213	26.0	0.0	0.052	0.045	4	4
Window 45: Other SHGC: 0.30	67			0.270	0.270	18	18
Window 46: Other SHGC: 0.30	62			0.270	0.270	17	17
Basement Walk Out: Wood Frame, 16" o.c.	52	26.0	0.0	0.052	0.045	3	2
Basement Walk Out: Wood Frame, 16" o.c.	10	26.0	0.0	0.052	0.045	1	0
Basement Walk Out: Wood Frame, 16" o.c.	158	26.0	0.0	0.052	0.045	5	4
Window 51: Other SHGC: 0.30	68			0.270	0.270	18	18
Basement Walk Out: Wood Frame, 16" o.c.	10	26.0	0.0	0.052	0.045	1	0
Garage Ceiling: All-Wood Joist/Truss	547	38.0	0.0	0.026	0.033	14	18
Basement Ceiling: All-Wood Joist/Truss	134	30.0	0.0	0.033	0.033	4	4
Basement Walk Out: Slab-On-Grade (Unheated) Insulation depth: 4.0'	72		10.0	0.640	0.480	0	0
Basement Wall: Solid Concrete or Masonry Wall height: 10.0' Depth below grade: 9.0' Insulation depth: 10.0'	2,830	0.0	16.0	0.041	0.050	115	140
Window: Wood Frame SHGC: 0.30	35			0.270	0.270	9	9

*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 2020 NYStretch - 2018 IECC requirements in REScheck Version : REScheck-Web and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

matthew wahl, hers rater 2572845

Name - Title

Signature

Date



# Inspection Checklist

Energy Code: 2020 NYStretch - 2018 IECC

Requirements: 100.0% 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
103.1, 103.2 [PR1] <sup>1</sup>	Construction drawings and documentation demonstrate energy code compliance for the building envelope. Thermal envelope represented on construction documents.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
103.1, 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 IECC Commercial Provisions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
302.1, 403.7 [PR2] <sup>2</sup>	Heating and cooling equipment is sized per ACCA Manual S based on loads calculated per ACCA Manual J or other methods approved by the code official.	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
402.1.2 [FO1] <sup>1</sup>	Slab edge insulation R-value.	R-____ <input type="checkbox"/> Unheated <input type="checkbox"/> Heated	R-____ <input type="checkbox"/> Unheated <input type="checkbox"/> Heated	<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.
402.1.2 [FO3] <sup>1</sup>	Slab edge insulation depth/length.	____ 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.
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-____	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.
402.2.9 [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	<b>Exception:</b> Requirement is not applicable.
403.9 [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, 402.3.1, 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.
402.4.1.1 [FR23] <sup>1</sup>	Air barrier and thermal barrier installed per manufacturer's instructions. An approved third-party will inspect all components and verify compliance. See section details and guidance from Table R402.4.1.1.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
402.4.3 [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	Requirement will be met.
403.3.1 [FR12] <sup>1</sup>	Supply and return ducts in attics insulated ≥ R-8 where duct is ≥ 3 inches in diameter and ≥ R-6 where < 3 inches. Supply and return ducts in other portions of the building insulated ≥ R-6 for diameter ≥ 3 inches and R-4.2 for < 3 inches in diameter.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Ducts located completely inside the building envelope.
403.3.2 [FR13] <sup>1</sup>	Ducts, air handlers and filter boxes are sealed with joints/seams compliant with International Mechanical Code or International Residential Code, as applicable.			<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.
403.3 [FI32] <sup>1</sup>	Duct system in new buildings and additions are located in a conditioned space in accordance with Sections R403.3.7 (1-2).			<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.
403.3.8 [FI33] <sup>1</sup>	Ducts are sized in accordance with ACCA Manual D and sections R403.7-8.			<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.
403.3.5 [FR15] <sup>3</sup>	Building cavities are not used as ducts or plenums.			<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	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.3.7 [FR28] <sup>3</sup>	Ducts declared to be within the conditioned space are either 1) completely within the continuous air barrier and within the building thermal envelope, 2) buried within ceiling insulation in accordance with Section R403.3.6 and the air handler is located completely within the continuous air barrier and within the building thermal envelope and the duct leakage is $\leq 1.5$ cfm / 100 square feet of conditioned floor area served by the duct system, or 3) the ceiling insulation R-value installed against and above the insulated duct $\geq$ to the proposed ceiling insulation R-value, less the R-value of the insulation on the			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.4 [FR17] <sup>2</sup>	HVAC piping conveying fluids above 105 °F or chilled fluids below 55 °F are insulated to $\geq R-3$ .	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.
403.4.1 [FR24] <sup>1</sup>	Protection of insulation on HVAC piping.			<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.
403.5.3 [FR18] <sup>2</sup>	Hot water pipes are insulated to $\geq R-3$ .	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.
403.5 [FR29] <sup>2</sup>	Energy conservation measures for SWH systems follow guidelines in section R403.5.1-5.	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.
403.6 [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, 402.2.6 [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, 402.2.8 [IN2] <sup>1</sup>	Floor insulation installed per manufacturer's instructions and in substantial contact with the underside of the subfloor, or floor framing cavity insulation is in contact with the top side of sheathing, or continuous insulation is installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.			<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 [IN3] <sup>1</sup>	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 (FR10).	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, 402.2.6 [FI1] <sup>1</sup>	Ceiling 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.
303.1.1.1, 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.
402.2.3 [FI22] <sup>2</sup>	Vented attics with air permeable insulation include baffle adjacent to soffit and eave vents that extends over insulation.			<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.
402.2.4 [FI3] <sup>1</sup>	Attic access hatch and door insulation ≥R-value of the adjacent assembly.	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.
402.4.1.2 [FI17] <sup>1</sup>	Blower door test @ 50 Pa. ≤=5 ach in Climate Zones 1-2, and ≤=3 ach in Climate Zones 3-8.	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.
403.3.3 [FI27] <sup>1</sup>	Ducts are pressure tested to determine air leakage with either: Rough-in test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the system including the manufacturer's air handler enclosure if installed at time of test. Postconstruction test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the entire system including the manufacturer's air handler enclosure.	____ cfm/100 ft <sup>2</sup>	____ cfm/100 ft <sup>2</sup>	<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.
403.3.4 [FI4] <sup>1</sup>	Duct tightness test result of ≤=4 cfm/100 ft <sup>2</sup> across the system or ≤=3 cfm/100 ft <sup>2</sup> without air handler @ 25 Pa. For rough-in tests, verification may need to occur during Framing Inspection.	____ cfm/100 ft <sup>2</sup>	____ cfm/100 ft <sup>2</sup>	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> All ducts and air handlers are located within conditioned space.
403.3.2.1 [FI24] <sup>1</sup>	Air handler leakage designated by manufacturer at ≤=2% of design air flow.			<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 for control of primary heating and cooling systems and initially set by manufacturer to code specifications.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.1.2 [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	Requirement will be met.
403.5.1 [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	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
403.6.1 [FI25] <sup>2</sup>	All mechanical ventilation system fans not part of tested and listed HVAC equipment meet efficacy and air flow limits per Table R403.6.1.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.6.2 [FI34] <sup>2</sup>	Every dwelling unit is served by a heat recovery ventilator (HRV) or energy recovery ventilator (ERV) installed per manufacturer's instructions. The HRV/ERV is listed and sized adequately for the specific application, which will include the building's conditioned area, and number of occupants.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.6.3 [FI35] <sup>2</sup>	Installed performance of the mechanical ventilation system is tested and verified by an approved agency and measured using a flow hood, flow grid, or other airflow measuring device.			<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 [FI26] <sup>2</sup>	Hot water boilers supplying heat through one- or two-pipe heating systems have outdoor setback control to lower boiler water temperature based on outdoor temperature.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.5.1.1 [FI28] <sup>2</sup>	Heated water circulation systems have a circulation pump. The system return pipe is a dedicated return pipe or a cold water supply pipe. Gravity and thermos-syphon circulation systems are not present. Controls for circulating hot water system pumps start the pump with signal for hot water demand within the occupancy. Controls automatically turn off the pump when water is in circulation loop is at set-point temperature and no demand for hot water exists.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.5.1.2 [FI29] <sup>2</sup>	Electric heat trace systems comply with IEEE 515.1 or UL 515. Controls automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.5.2 [FI30] <sup>2</sup>	Demand recirculation water systems have controls that manage operation of the pump and limit the temperature of the water entering the cold water piping to $\leq 104^{\circ}\text{F}$ .			<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)
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Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.5.4 [FI31] <sup>2</sup>	Drain water heat recovery units have $\geq 40$ percent efficiency if installed for equal flow or $\geq 52$ percent efficiency if installed for unequal flow. Vertical drain water heat recovery units comply with CSA B55.2 and tested and labeled in accordance with CSA B55.1. Potable water-side pressure loss of drain water heat recovery units are $< 3$ psi for individual units connected to one or two showers. Potable water-side pressure loss of drain water heat recovery units are $< 2$ psi for individual units connected to three or more showers.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
403.5.5(1-4) [FI33] <sup>2</sup>	Heated water supply piping is in accordance with one of the following: 1) Maximum allowable pipe length method, 2) Maximum allowable pipe volume method, 3) Drain water heat recovery units, or 4) Recirculation Systems.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
404.1 [FI6] <sup>1</sup>	90% or more of permanent fixtures have lamps with an efficacy $\geq 65$ lumens/watt or have a total luminaire efficacy $\geq 45$ lumens/watt.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
404.2 [FI35] <sup>1</sup>	Detached one and two-family dwellings and townhouses where the conditioned space is $> 1,400$ sf comply with the requirements of Appendix RA.			<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.
404.3 [FI36] <sup>1</sup>	One or two-family dwellings and townhouses with parking area provided on the building site shall have a 208/240V 40-amp outlet for each dwelling unit or panel capacity and conduit for the future installation of such an outlet. See section details.			<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.
404.1.1 [FI23] <sup>3</sup>	Fuel gas lighting systems have no continuous pilot light.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
401.3 [FI7] <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 [FI18] <sup>3</sup>	Manufacturer manuals for mechanical and water heating systems 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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