

Project Klinefelter Residence

Energy Code: 2015 IECC
Location: Ogden, Utah
Construction Type: Single-family
Project Type: New Construction

Conditioned Floor Area: **5,536 ft2** Glazing Area **20%** 

Climate Zone: 5 (5557 HDD)

Permit Date: Permit Number:

Construction Site:

Lot 79

Eden, UT 84310

Owner/Agent: Kelsey Klinefelter

CA

Designer/Contractor: MacKay-Lyons Sweetapple

Architects

2188 Gottingen Street Halifax, NS, Ontario 1-902-429-1867

## Compliance: Passes using UA trade-off

Compliance: 23.1% Better Than Code Maximum UA: 1224 Your UA: 941

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.

NOTE: 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
W Building Roof: Cathedral Ceiling Comment: RA 1	1,296	48.0	8.0	0.018	0.026	23	33
skylight 01: Metal Frame with Thermal Break:Double Pane	11			0.320	0.550	4	6
W Buiding Basement Terrace Soffit: Other Ceiling Comment: SA 1	79			0.028	0.026	2	2
W Buiding North EL Wood Frame: Wood Frame, 16" o.c. Comment: EWA 1	246	36.0	12.0	0.026	0.060	6	14
w09: Metal Frame with Thermal Break:Double Pane with Low-E	8			0.320	0.320	3	3
W Building West EL Wood Frame: Wood Frame, 16" o.c. Comment: EWA 1	723	36.0	12.0	0.026	0.060	16	36
w02: Metal Frame with Thermal Break:Double Pane with Low-E	24			0.320	0.320	8	8
w01: Metal Frame with Thermal Break:Double Pane with Low-E	7			0.320	0.320	2	2
w03A & W03B: Metal Frame with Thermal Break:Double Pane with Low-E	85			0.320	0.320	27	27

Project Title: Klinefelter Residence

Data filename: H:\1464-18 Klinefelter Residence\1.4 CDs\1.4.3 Construction Documents\1.4.3.8

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Report date: 06/06/22

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Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Prop. U-Factor	Req. U-Factor	Prop. UA	Req. UA
W Building South EL Wood Frame: Wood Frame, 16"	Perimeter						
o.c. Comment: EWA 1	476	36.0	12.0	0.026	0.060	8	20
w05: Metal Frame with Thermal Break:Double Pane with Low-E	150			0.320	0.320	48	48
W Building East EL Wood Frame: Wood Frame, 16" o.c.	895	36.0	12.0	0.026	0.060	15	34
Comment: EWA 1 w07: Metal Frame with Thermal Break:Double Pane	151			0.320	0.320	48	48
with Low-E w8: Metal Frame with Thermal Break:Double Pane with Low-E	28			0.320	0.320	9	9
w29: Metal Frame with Thermal Break:Double Pane with Low-E	151			0.320	0.320	48	48
W Building Hearth Wall: Solid Concrete or Masonry:Interior Insulation Comment: EWA 5	262	27.0	0.0	0.056	0.065	15	17
W Building North EL Basement: Solid Concrete or Masonry Wall height: 8.5' Depth below grade: 5.5' Insulation depth: 8.5' Comment: EWA 3	181	20.0	7.0	0.036	0.050	7	9
W Building West EL Basement: Solid Concrete or Masonry Wall height: 8.5' Depth below grade: 5.5' Insulation depth: 8.5' Comment: EWA 3	272	20.0	7.0	0.036	0.050	9	13
w04: Metal Frame with Thermal Break:Double Pane with Low-E	11			0.320	0.320	4	4
W Building South EL Basement: Solid Concrete or Masonry Wall height: 8.5' Depth below grade: 5.5' Insulation depth: 8.5' Comment: EWA 3	181	20.0	7.0	0.036	0.050	4	6
w06: Metal Frame with Thermal Break:Double Pane with Low-E	43			0.320	0.320	14	14
dB: Solid	27			0.340	0.320	9	9
W Building East EL Basement: Solid Concrete or							
Masonry Wall height: 8.5' Depth below grade: 5.5' Insulation depth: 8.5' Comment: EWA 3	200	20.0	7.0	0.036	0.050	7	10
W Building Crawl Space: Solid Concrete or Masonry Wall height: 6.5' Depth below grade: 4.0' Insulation depth: 6.5' Comment: EWA 4	264	0.0	27.0	0.034	0.055	6	10
Entry Knuckle Roof: Flat Ceiling or Scissor Truss Comment: RA 3	141	48.0	10.0	0.021	0.026	3	4
Entry Knuckle South EL: Wood Frame, 16" o.c. Comment: EWA 6	98	36.0	12.0	0.026	0.060	1	2
w12: Metal Frame with Thermal Break:Double Pane with Low-E	41			0.320	0.320	13	13
w12 (door): Glass	22			0.320	0.320	7	7

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Prop. U-Factor	Req. U-Factor	Prop. UA	Req. UA
w11: Metal Frame with Thermal Break:Double Pane with Low-E	50			0.032	0.320	2	16
Entry Knuckle North EL: Wood Frame, 16" o.c.	123	36.0	12.0	0.026	0.060	1	3
w10: Metal Frame with Thermal Break:Double Pane with Low-E	49			0.320	0.320	16	16
dA: Solid	26			0.340	0.320	9	8
C Building Roof: Cathedral Ceiling Comment: RA 2	667	48.0	8.0	0.018	0.026	12	17
skylight 02: Metal Frame with Thermal Break:Double Pane with Low-E	11			0.320	0.550	4	6
Skylight 03: Metal Frame with Thermal Break:Double Pane with Low-E	11			0.320	0.550	4	6
C Buiding North EL Wood Frame: Wood Frame, 16" o.c.	420	36.0	12.0	0.026	0.060	10	23
Comment: EWA 1 w015A: Metal Frame with Thermal Break:Double Pane with Low-E	15			0.320	0.320	5	5
w015B: Metal Frame with Thermal Break:Double Pane with Low-E	15			0.320	0.320	5	5
C Building West EL Wood Frame: Wood Frame, 16" o.c. Comment: EWA 1	674	36.0	12.0	0.026	0.060	17	39
w15C: Metal Frame with Thermal Break:Double Pane with Low-E	12			0.320	0.320	4	4
w29: Metal Frame with Thermal Break:Double Pane with Low-E	11			0.320	0.320	4	4
C Building South EL Wood Frame: Wood Frame, 16" o.c. Comment: EWA 1	532	36.0	12.0	0.026	0.060	10	24
w13: Metal Frame with Thermal Break:Double Pane with Low-E	64			0.320	0.320	20	20
w14: Metal Frame with Thermal Break:Double Pane with Low-E	72			0.320	0.320	23	23
C Building East EL Wood Frame: Wood Frame, 16" o.c. Comment: EWA 1	393	36.0	12.0	0.026	0.060	10	23
w033: Metal Frame with Thermal Break:Double Pane with Low-E	12			0.320	0.320	4	4
C Building North EL Basement: Solid Concrete or Masonry Wall height: 8.5' Depth below grade: 5.5' Insulation depth: 8.5' Comment: EWA 3	171	20.0	7.0	0.036	0.050	6	9
C Building West EL Basement: Solid Concrete or Masonry Wall height: 8.5' Depth below grade: 5.5' Insulation depth: 8.5' Comment: EWA 3	155	20.0	7.0	0.036	0.050	6	8
C Building East EL Basement: Solid Concrete or Masonry Wall height: 8.5' Depth below grade: 5.5' Insulation depth: 8.5' Comment: EWA 3	155	20.0	7.0	0.036	0.050	6	8

	Gross Area	Cavity	Cont.	Prop	Rog -	Prop	Pog
Assembly	or Perimeter	R-Value		Prop. U-Factor	Req. U-Factor	Prop. UA	Req. UA
C Building Crawl Space: Solid Concrete or Masonry Wall height: 6.5'	201	0.0	27.0	0.024	0.055	-	0
Depth below grade: 4.0' Insulation depth: 6.5' Comment: EWA 4	201	0.0	27.0	0.034	0.055	5	8
Garage Knuckle Roof: Flat Ceiling or Scissor Truss Comment: RA 3	72	36.0	10.0	0.024	0.026	2	2
Garage Knuckle South EL: Wood Frame, 16" o.c.	43	36.0	7.5	0.031	0.060	0	1
w008: Metal Frame with Thermal Break:Double Pane with Low-E	27			0.320	0.320	9	9
Garage Knuckle North EL: Wood Frame, 16" o.c.	34	36.0	7.5	0.031	0.060	0	0
w015: Metal Frame with Thermal Break:Double Pane with Low-E	27			0.320	0.320	9	9
E Buiding North EL Wood Frame: Wood Frame, 16" o.c.	438	36.0	12.0	0.026	0.060	6	14
Comment: EWA 1 w25: Metal Frame with Thermal Break:Double Pane with Low-E	47			0.320	0.320	15	15
Garage Doors: Solid	166			0.340	0.320	56	53
E Building Roof: Cathedral Ceiling Comment: RA 2	1,248	48.0	8.0	0.018	0.026	22	32
skylight 04: Metal Frame with Thermal Break:Double Pane with Low-E	11			0.320	0.550	4	6
skylight 05: Metal Frame with Thermal Break:Double Pane with Low-E	11			0.320	0.550	4	6
Skylight 06: Metal Frame:Double Pane with Low-E	11			0.320	0.550	4	6
E Buiding Basement Terrace Soffit: Other Ceiling Comment: SA 1	79			0.028	0.026	2	2
E Building West EL Wood Frame: Wood Frame, 16" o.c.	740	36.0	12.0	0.026	0.060	16	37
Comment: EWA 1 w17: Metal Frame with Thermal Break:Double Pane with Low-E	22			0.320	0.320	7	7
w18: Metal Frame with Thermal Break:Double Pane with Low-E	106			0.320	0.320	34	34
E Building South EL Wood Frame: Wood Frame, 16" o.c.	477	36.0	12.0	0.026	0.060	8	18
Comment: EWA 1 w011: Metal Frame with Thermal Break:Double Pane							
with Low-E	97			0.320	0.320	31	31
w030: Metal Frame with Thermal Break:Double Pane with Low-E	75			0.320	0.320	24	24
E Building East EL Wood Frame: Wood Frame, 16" o.c. Comment: EWA 1	1,093	36.0	12.0	0.026	0.060	27	61
w22: Metal Frame with Thermal Break:Double Pane with Low-E	36			0.320	0.320	12	12
w23: Metal Frame with Thermal Break:Double Pane with Low-E	11			0.320	0.320	4	4
w24A & w24B: Metal Frame with Thermal Break:Double Pane with Low-E	23			0.320	0.320	7	7
E Building North EL Basement: Solid Concrete or Masonry							
Wall height: 8.5' Depth below grade: 5.5' Insulation depth: 8.5' Comment: EWA 3	179	20.0	7.0	0.036	0.050	6	9

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Prop. U-Factor	Req. U-Factor	Prop. UA	Req. UA	
E Building West EL Basement: Solid Concrete or Masonry Wall height: 8.5' Depth below grade: 5.5' Insulation depth: 8.5' Comment: EWA 3	215	20.0	7.0	0.036	0.050	8	11	
E Building South EL Basement: Solid Concrete or Masonry Wall height: 8.5' Depth below grade: 5.5' Insulation depth: 8.5' Comment: EWA 3	179	20.0	7.0	0.036	0.050	5	7	
w039: Metal Frame with Thermal Break:Double Pane with Low-E	17			0.320	0.320	5	5	
Door 5: Glass	26			0.340	0.320	9	8	
E Building East EL Basement: Solid Concrete or Masonry Wall height: 8.5' Depth below grade: 5.5' Insulation depth: 8.5' Comment: EWA 3	215	20.0	7.0	0.036	0.050	8	11	
E Building Crawl Space: Solid Concrete or Masonry Wall height: 6.5' Depth below grade: 4.0' Insulation depth: 6.5' Comment: EWA 4	243	20.0	7.0	0.040	0.055	7	9	
Wood Truss Floor: All-Wood Joist/Truss:Over Unconditioned Space	1,118	27.0	0.0	0.036	0.033	40	37	
Concrete Floor: Slab-On-Grade:Unheated Insulation depth: 2.0' Comment: FA10	306		10.0	0.767	0.033	0	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 2015 IECC requirements in REScheck Version 4.7.2 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.								
Name - Title	Signa	ture			Da	te		

## REScheck Software Version 4.7.2 Inspection Checklist Energy Code: 2015 IECC

Requirements: 36.0% 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.			□Complies □Does Not □Not Observable □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.			□Complies □Does Not □Not Observable □Not Applicable	
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	□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 # & Reg.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 Unheated Heated	R Unheated Heated	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
402.1.2 [FO3] <sup>1</sup>	Slab edge insulation depth/length.	ft	ft	□Complies □Does Not □Not Observable □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	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.2 [FO5] <sup>1</sup>	Conditioned basement wall insulation installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
402.2.9 [FO6] <sup>1</sup>	Conditioned basement wall insulation depth of burial or distance from top of wall.	ft	ft	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
402.2.11 [FO7] <sup>1</sup>	Unvented crawl space wall insulation R-value.	R R	R R	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.2 [FO8] <sup>1</sup>	Unvented crawl space wall insulation installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
402.2.11 [FO9] <sup>1</sup>	Unvented crawl space continuous vapor retarder installed over exposed earth, joints overlapped by 6 in. and sealed, extending at least 6 in. up and attached to the wall.			□Complies □Does Not □Not Observable □Not Applicable	
402.2.11 [FO10] <sup>1</sup>	Unvented crawl space wall insulation depth of burial or distance from top of wall.	in.	in.	□Complies □Does Not □Not Observable □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.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
403.9 [FO12] <sup>2</sup>	Snow- and ice-melting system controls installed.			□Complies □Does Not □Not Observable □Not Applicable	

	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	□Complies □Does Not □Not Observable □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	□Complies □Does Not □Not Observable □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.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
402.1.1, 402.3.3, 402.3.6, 402.5 [FR5] <sup>1</sup>	Skylight U-factor.	U	U	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
402.4.1.1 [FR23] <sup>1</sup>	Air barrier and thermal barrier installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐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.			□Complies □Does Not □Not Observable □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.			☐Complies ☐Does Not ☐Not Observable ☐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.			□Complies □Does Not □Not Observable □Not Applicable	
403.3.5 [FR15] <sup>3</sup>	Building cavities are not used as ducts or plenums.			□Complies □Does Not □Not Observable □Not Applicable	
403.4 [FR17] <sup>2</sup>	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	
403.4.1 [FR24] <sup>1</sup>	Protection of insulation on HVAC piping.			□Complies □Does Not □Not Observable □Not Applicable	

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
403.5.3 [FR18] <sup>2</sup>	Hot water pipes are insulated to ≥R-3.	R	R	□Complies □Does Not	
•			 	□Not Observable □Not Applicable	
403.6 [FR19] <sup>2</sup>	Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.			□Complies □Does Not	Requirement will be met.
	midres and exhausts.			□Not Observable □Not Applicable	

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

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.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
402.1.1, 402.2.6 [IN1] <sup>1</sup>	Floor insulation R-value.	R Wood Steel	R Wood Steel	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.2, 402.2.7 [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.			□Complies □Does Not □Not Observable □Not Applicable	
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 Wood Mass Steel	R Wood Mass Steel	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.2 [IN4] <sup>1</sup>	Wall insulation is installed per manufacturer's instructions.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

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

Section #	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
& Req.ID 402.1.1, 402.2.1, 402.2.2, 402.2.6 [FI1] <sup>1</sup>	Ceiling insulation R-value.	R Wood Steel	R Wood Steel	☐Complies ☐Does Not ☐Not Observable ☐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> .			Complies Does Not Not Observable 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.			Complies Does Not Not Observable 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	□Complies □Does Not □Not Observable □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 =	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
403.3.4 [FI4] <sup>1</sup>	Duct tightness test result of <=4 cfm/100 ft2 across the system or <=3 cfm/100 ft2 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 ft²	□Complies □Does Not □Not Observable □Not Applicable	
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>	□Complies □Does Not □Not Observable □Not Applicable	
403.3.2.1 [FI24] <sup>1</sup>	Air handler leakage designated by manufacturer at <=2% of design air flow.			□Complies □Does Not □Not Observable □Not Applicable	
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.			□Complies □Does Not □Not Observable □Not Applicable	
403.1.2 [FI10] <sup>2</sup>	Heat pump thermostat installed on heat pumps.			□Complies □Does Not □Not Observable □Not Applicable	
403.5.1 [FI11] <sup>2</sup>	Circulating service hot water systems have automatic or accessible manual controls.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Section #	Final Inspection Provisions	Plans Verified	Field Verified	Complies?	Comments/Assumptions
& Req.ID	·	Value	Value		,
	All mechanical ventilation system fans not part of tested and listed			☐Complies ☐Does Not	 
	HVAC equipment meet efficacy and air flow limits.			□Not Observable	
				□Not Applicable	 
	Hot water boilers supplying heat through one- or two-pipe heating			☐Complies ☐Does Not	I I I I
	systems have outdoor setback control to lower boiler water			□Not Observable	 
	temperature based on outdoor			□Not Applicable	 
i i	temperature.  Heated water circulation systems			☐Complies	 
[FI28] <sup>2</sup>	have a circulation pump. The			Does Not	 
	system return pipe is a dedicated return pipe or a cold water supply			□Not Observable	 
	pipe. Gravity and thermos- syphon circulation systems are			□Not Applicable	 
	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.			☐Complies	
[FI29] <sup>2</sup>	Electric heat trace systems comply with IEEE 515.1 or UL			Does Not	 
	515. Controls automatically adjust the energy input to the			□Not Observable	 
	heat tracing to maintain the desired water temperature in the			□Not Applicable	
	piping.				
	Water distribution systems that have recirculation pumps that			☐Complies ☐Does Not	
	pump water from a heated water			□Not Observable	
	supply pipe back to the heated water source through a cold			□Not Applicable	
	water supply pipe have a demand recirculation water				
	system. Pumps have controls				 
	that manage operation of the pump and limit the temperature				 
	of the water entering the cold water piping to 104°F.				
	Drain water heat recovery units			Complies	
-	tested in accordance with CSA B55.1. Potable water-side			□Does Not □Not Observable	 
	pressure loss of drain water heat recovery units < 3 psi for			□Not Observable □Not Applicable	 
	individual units connected to one				 
	or two showers. Potable water- side pressure loss of drain water				 
	heat recovery units < 2 psi for individual units connected to				
-	three or more showers.				
	75% of lamps in permanent fixtures or 75% of permanent			☐Complies ☐Does Not	1 
	fixtures have high efficacy lamps. Does not apply to low-voltage			□Not Observable	 
	lighting.			□Not Applicable	 
	Fuel gas lighting systems have no continuous pilot light.			□Complies □Does Not	<b>Exception:</b> Requirement is not applicable.
[1123]·	no continuous pilot light.			□Not Observable	
				□Not Applicable	 

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
401.3 [FI7] <sup>2</sup>	Compliance certificate posted.			□Complies □Does Not	Requirement will be met.
				□Not Observable □Not Applicable	
303.3 [FI18] <sup>3</sup>	Manufacturer manuals for mechanical and water heating			□Complies □Does Not	
	systems have been provided.			□Not Observable □Not Applicable	

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



Insulation Rating	R-Value	
Above-Grade Wall	48.00	
Below-Grade Wall	27.00	
Floor	27.00	
Ceiling / Roof	56.00	
Ductwork (unconditioned spaces):		
Glass & Door Rating	U-Factor	SHGC
Window	0.32	
Window Door	0.32 0.34	
Door	0.34	
Door Skylight	0.34 0.32	

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

**Comments** 

Water Heater: