



Compliance Certificate

Project Information

Project Title:**Omaha811**

Energy Code:

2018 IECC

Location:

Omaha, Nebraska

Construction Type:

Single Family

Project Type:

New Construction

Project Sub Type:

None

Conditioned Floor Area:

4923 ft2

Glazing Area:

20%

Climate Zone:

5a (6300 HDD)

Project No:

1901532

All Electric:

false

Is Renewable:

false

Has Battery:

false

Has Charger:

false

Has Heat Pump

false

**Construction Site:**811 N 143rd Plaza
Omaha , NE**Owner/Agent:**

Lot 21 Hogan Residence

Designer/Contractor:

Architectural Plans

Project Notes:

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Prop. U-Factor/ F-Factor	Req. U-Factor/ F-Factor	Prop. UA	Req. UA
Ceiling area of home forming top of insulation envelope: Flat Ceiling or Scissor Truss	2871	49.0	0.0	0.026	0.026	75	75
Wall area of home forming sides of insulation envelope: Wood Frame, 16" o.c.	2249	19.0	0.0	0.060	0.060	106	106
Window area of home using energy efficient units: Vinyl Frame	360			0.270	0.300	97	108
Energy efficient door unit: Solid Door (under 50% glazing)	21			0.200	0.300	4	6
20 min fire door: Solid Door (under 50% glazing)	21			0.200	0.300	4	6
Energy efficient door unit: Glass Door (over 50% glazing)	42			0.270	0.300	11	13
Energy efficient door unit: Glass Door (over 50% glazing)	42			0.270	0.300	11	13
Basement wall area of home forming bottom of insulation envelope: Solid Concrete or Masonry Wall height: 9.00 Insulation depth: 9.00' Insulation position: Integral Insulation	2177	13.0	0.0	0.051	0.050	111	109

Compliance: Passes using UA trade-off

Compliance: 3.9% Better Than Code

Max UA: 436

Your UA: 419

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.

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 2018 IECC requirements in REScheck-Web and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Jobe Leonard

Name - Title


Signature

7/2/2026

Date



**COMPLIANCE WITH
INSULATION VALUES TO BE
THE RESPONSIBILITY OF THE
PARTY SIGNING THE ENERGY
COMPLIANCE DOCUMENT**



Inspection Checklist

Energy Code: 2018 IECC

Requirements: 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.

Pre-Inspection/Plan Review

Section # & Req.ID	Pre-Inspection/Plan Review	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
103.1, 103.2 [PR1] ¹	Construction drawings and documentation demonstrate energy code compliance for the building envelope. Thermal envelope represented on construction documents.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
103.1, 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 IECC Commercial Provisions.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
302.1, 403.7 [PR2] ²	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 Comply ☐ 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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Foundation Inspection

Section # & Req.ID	Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
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 Comply ☐ Not Observable ☐ Not Applicable	
403.9 [FO12] ²	Snow- and ice-melting system controls installed.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
402.1.1 [FO4] ¹	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 Comply ☐ Not Observable ☐ Not Applicable	See the Envelope Assemblies table for values
303.2 [FO5] ¹	Conditioned basement wall insulation installed per manufacturer's instructions.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
402.2.9 [FO6] ¹	Conditioned basement wall insulation depth of burial or distance from top of wall.	ft	ft	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	See the Envelope Assemblies table for values

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Framing / Rough-In Inspection

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 Comply ☐ Not Observable ☐ Not Applicable	See the Envelope Assemblies 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 Comply ☐ Not Observable ☐ Not Applicable	See the Envelope Assemblies table for values
402.4.1.1 [FR23] ¹	Air barrier and thermal barrier installed per manufacturer's instructions.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
402.4.3 [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 Comply ☐ 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 Comply ☐ Not Observable ☐ Not Applicable	
403.3.1 [FR12] ¹	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 Comply ☐ Not Observable ☐ Not Applicable	
403.3.2 [FR13] ¹	Ducts, air handlers and filter boxes are sealed with joints/seams compliant with International Mechanical Code or International Residential Code, as applicable.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.3.5 [FR15] ³	Building cavities are not used as ducts or plenums.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	

Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.4 [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 Comply ☐ Not Observable ☐ Not Applicable	
403.4.1 [FR24] ¹	Protection of insulation on HVAC piping.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.5.3 [FR18] ²	Hot water pipes are insulated to ≥R-3.	R-	R-	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.6 [FR19] ²	Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
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 Comply ☐ 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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Insulation Inspection

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 provided.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
402.1.1, 402.2.5, 402.2.6 [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 (FR10).	R- ☐ Wood ☐ Mass ☐ Steel	R- ☐ Wood ☐ Mass ☐ Steel	☐ Complies ☐ Does Not Comply ☐ 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 Comply ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

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Final Inspection Provisions

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] ¹	Ceiling insulation R-value.	R- ☐ Wood ☐ Steel	R- ☐ Wood ☐ Steel	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	<i>See the Envelope Assemblies table for values</i>
303.1.1.1, 303.2 [FI2] ¹	Ceiling insulation installed per manufacturer's instructions. Blown insulation marked every 300 ft ² .			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.1.2 [FI10] ²	Heat pump thermostat installed on heat pumps.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.5.1 [FI11] ²	Circulating service hot water systems have automatic or accessible manual controls.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.6.1 [FI25] ²	All mechanical ventilation system fans not part of tested and listed HVAC equipment meet efficacy and air flow limits per Table R403.6.1.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.2 [FI26] ²	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.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.5.1.1 [FI28] ²	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.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.5.1.2 [FI29] ²	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.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.5.2 [FI30] ²	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 $\leq 104^{\circ}\text{F}$.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.5.4 [FI31] ²	Drain water heat recovery units tested in accordance with CSA B55.1. Potable water-side pressure loss of drain water heat recovery units < 3 psi for 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.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
404.1 [FI6] ¹	90% or more of permanent fixtures have high efficacy lamps.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
404.1.1 [FI23] ³	Fuel gas lighting systems have no continuous pilot light.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
401.3 [FI7] ²	Compliance certificate posted.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
303.3 [FI18] ³	Manufacturer manuals for mechanical and water heating systems have been provided.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
402.2.3 [FI22] ²	Vented attics with air permeable insulation include baffle adjacent to soffit and eave vents that extends over insulation.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
402.2.4 [FI3] ¹	Attic access hatch and door insulation $\geq$ R-value of the adjacent assembly.	R-	R-	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
402.4.1.2 [FI17] ¹	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 Comply ☐ Not Observable ☐ Not Applicable	

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.3.3 [FI27] ¹	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 ²	 cfm/100 ft ²	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.3.4 [FI4] ¹	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 ²	 cfm/100 ft ²	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.3.2.1 [FI24] ¹	Air handler leakage designated by manufacturer at <=2% of design air flow.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.1.1 [FI9] ²	Programmable thermostats installed for control of primary heating and cooling systems and initially set by manufacturer to code specifications.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

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2018 IECC Energy Efficiency Certificate

Insulation Rating	R-Value
Above-Grade Wall	19.00
Below-Grade Wall	13.00
Floor	0.00
Ceiling / Roof	49.00
Ductwork (unconditioned spaces):	_____

Glass & Door Rating	U-Factor	SHGC
Window	0.27	
Door	0.27	0.25
Skylight	0.00	

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

Signature	
Name: _____	Date: _____
Comments:	