Compliance Certificate

Project Information

Project Title:	**Feller Home Mountain Stream**
Energy Code:	2021 IECC
Location:	Draper, Utah
Construction Type:	Single Family
Project Type:	New Construction
Project Sub Type:	None
Conditioned Floor Area:	8435 ft2
Glazing Area:	14%
Climate Zone:	5b (6521 HDD)
Project No:	1851059
All Electric:	false
Is Renewable:	false
Has Battery:	false
Has Charger:	true
Has Heat Pump	false

Construction Site:

Draper , Utah

Owner/Agent:

Kirk & April Feller
Draper , Utah

Designer/Contractor:

Aaron Allred
192 East 200 North
Artius Desgin Group
Saint George , Utah 84770
8053047006
aaron@artiusdg.com

Project Notes:

Energy Credits

Description	Credits
Improved Air Sealing and Efficient Ventilation System Option - R408.2.5	1.0
Enhanced Envelope Performance Option - R408.2.1	1.0
More Efficient HVAC Equipment Option - R408.2.2	1.0

Required: 1 Proposed: 3

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: Raised or Energy Truss	8435	60.0	0.0	0.017	0.024	143	202
Floor 2: All-Wood Joist/Truss	171	49.0	0.0	0.021	0.033	4	6
Floor 1: Slab-On-Grade (Unheated) Insulation depth: 4.00' Insulation position: Horizontal Insulation	880		10.0	0.640	0.640	0	0
Wall 5: Wood Frame, 16" o.c.	1620	20.0	5.0	0.044	0.045	60	62
Window 13-32: Metal Frame	216			0.250	0.320	54	69
Door 1: Glass Door (over 50% glazing)	36			0.250	0.320	9	12
Wall 6: Wood Frame, 16" o.c.	1711	20.0	5.0	0.044	0.045	69	71
Window 33-45: Metal Frame	94			0.250	0.320	24	30
Door 2: Glass Door (over 50% glazing)	48			0.250	0.320	12	15
Wall 8: Wood Frame, 16" o.c.	2091	20.0	5.0	0.044	0.045	86	88
Window 60-71: Metal Frame	108			0.250	0.320	27	35
Door 8: Solid Door (under 50% glazing)	24			0.520	0.320	12	8
Wall 7: Wood Frame, 16" o.c.	1795	20.0	5.0	0.044	0.045	55	56
Window 46-59: Metal Frame	166			0.250	0.320	42	53
Door 7: Solid Door (under 50% glazing)	24			0.520	0.320	12	8
Door 3-6: Glass Door (over 50% glazing)	356			0.250	0.320	89	114
Wall 2: Solid Concrete or Masonry Insulation position: Interior Insulation	570	19.0	15.0	0.031	0.065	15	31
Window 1-7: Metal Frame	86			0.250	0.320	22	28
Wall 4: Solid Concrete or Masonry Insulation position: Interior Insulation	848	19.0	15.0	0.031	0.065	24	49
Window 8-12: Metal Frame	88			0.250	0.320	22	28
Basement Wall 1: Solid Concrete or Masonry Wall height: 12.00 Insulation depth: 4.00' Insulation position: Integral Insulation	855	19.0	15.0	0.067	0.050	57	43
Basement Wall 3: Solid Concrete or Masonry Wall height: 10.00 Insulation depth: 4.00' Insulation position: Integral Insulation	1200	19.0	15.0	0.052	0.050	62	60

Compliance: Passes using UA trade-off

Compliance: 11.3% Better Than Code	Max UA: 1015	Your UA: 900

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 2021 IECC requirements in RES*check*-Web and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Aaron Allred - Designer		2026.03.27
Name - Title	**Signature**	**Date**

Inspection Checklist

Energy Code: 2021 IECC

Requirements: 0% were addressed directly in the RES*check* 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 and energy compliance path represented on construction documents.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
103.1, 103.2, 403.8 [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)

Foundation Inspection

Section # & Req.ID	Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.2 [FO1][1]	Slab edge insulation R-value.	R- ☐ Unheated ☐ Heated	R- ☐ Unheated ☐ Heated	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	*See the Envelope Assemblies table for values*
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 to shut off system when pavement temperature > 50F and no precipitation.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
402.1.2 [FO3][1]	Slab edge insulation depth/length.	☐ ft	☐ ft	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	*See the Envelope Assemblies table for values*
303.2, 402.2.10 [FO2][1]	Slab edge insulation installed per manufacturer's instructions.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
402.1.2 [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	
402.2.8 [FO6][1]	Conditioned basement wall insulated in accordance with Table R402.1.3 with insulation depth the minimum of 10 ft below grade or to the basement floor.	☐ 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)

Framing / Rough-In Inspection

Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1, 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, 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.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.3.4 [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	
403.3.7 [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
403.3.2 [FR28][3]	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 <= 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 >= to the proposed ceiling insulation R-value, less the R-value of the insulation on the duct.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.4 [FR17][2]	HVAC piping conveying fluids above 105 ºF or chilled fluids below 55 ºF are insulated to ≥R-3.	R-	R-	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
402.4.6 [FR29][3]	Electrical and communication boxes installed in the thermal boundary of the envelope sealed to limit air leakage between conditioned and unconditioned spaces.			☐ 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	
403.5.2 [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 for mechanical ventilation systems.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.6.1 [FR30][2]	Ventilation systems in climate zones 7 & 8 shall utilize heat or energy recovery			☐ 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)

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, 402.2.7 [IN1][1]	Floor insulation R-value.	R-____ ☐ Wood ☐ Steel	R-____ ☐ Wood ☐ Steel	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	*See the Envelope Assemblies table for values*
402.1, 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:

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

Final Inspection Provisions

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.1.1.1, 303.2 [FI2][1]	Ceiling insulation installed per manufacturer's instructions. Blown insulation marked every 300 ft².			☐ 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	
403.2 [FI26][2]	Hot water boilers supplying heat through one- or two-pipe heating systems have automatic outdoor setback control to lower boiler water temperature based on outdoor temperature, indoor temperature or water temperature sensing.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.3.4.1 [FI24][1]	Air handler leakage designated by manufacturer at <=2% of design air flow.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.10.1 [FI12][3]	Readily accessible switch on heaters for swimming pools or permanent in-ground spas. Switch operation does not change heater thermostat setting. Heater circuit breaker is installed independent of switch. Gas-fired heaters equipped with ignition pilots that are not continuously burning pilots.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.3.5 [FI27][1]	Ducts are pressure tested in accordance with ANEI/RESNET/ICC 380 or ASTME1554 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	
403.10.2 [FI19][3]	Timer switches or other automatic preset schedule control method are installed on heaters and pumps serving pools and permanent spas.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.3.6 [FI4][1]	Duct tightness test result of <=4 cfm/100 ft2 across the system or <=3 cfm/100 ft2 without air handler @ 25 Pa. Duct tightness <= 8 cfm/100 ft2 for ducts within thermal envelope. 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	

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.10.3 [FI20][3]	Outdoor heated pools and outdoor permanent spas have a vapor retardant cover.			☐ 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	
404.1 [FI6][1]	100% of permanent fixtures have high efficacy lamps.			☐ 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	
404.2 [FI36][3]	Permanent interior lighting shall be controlled with either a dimmer, occupancy sensor or other control built into the fixture.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
404.3 [FI37][3]	Exterior lighting >= 30 watts shall have the following controls: manual on/off switch with automatic shut-off, automatic shut-off in daylight hours, and controls that override automatic shutoff that returns to automatic control within 24 hours.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.5.1.1.1 [FI32][2]	Demand recirculation water systems have automatic controls to start pump when hot water is requested.			☐ 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
403.5.3 [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	
401.3 [FI7][2]	Compliance certificate posted with building specifications and compliance path and results.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.6.2 [FI25][2]	All mechanical ventilation system fans not part of tested and listed HVAC equipment meet efficacy and air flow limits per Table R403.6.2.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.11 [FI34][3]	Electric powered portable spas controlled by APSP 14 requirements			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
403.6.3 [FI33][2]	Mechanical ventilation systems tested and verified to meet the minimum flow rates required by Section R403.6.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
404.1.1 [FI35][3]	Exterior lighting for multifamily buildings shall comply with Section C405.4.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
404.1.2 [FI23][3]	Fuel gas lighting systems have no continuous pilot light.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
408.2.1 [FI38][3]	Enhanced Envelope Performance Option: Proposed building UA = 0.95 UA of 2021 IECC Standard Reference Design.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
408.2.2 [FI39][3]	Efficiency HVAC Package: Efficiencies >= 95 AFUE gas furnace, 16 SEER air conditioner, 10 HSPF/16 SEER heat pump or 3.5 COP ground source heat pump.			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
408.2.5 [FI42][3]	Improved Air Sealing: Air leakage <= 3.0 ACH50 combined with an Energy Recovery Ventilator >= Latent Recovery /Moisture Transfer (LRMT) or Heat Recovery Ventilator with >= 75% Sensible Recovery Efficiency (SRE).			☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
402.1, 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	*See the Envelope Assemblies table for values*
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 ≥R-value of the adjacent assembly.	R-____	R-____	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
402.4.1.3 [FI17][1]	Blower door test @ 50 Pa. <=5.0 ach in Climate Zones 1-2, and <=3.0 ach in Climate Zones 3-8.	ACH 50 = ____	ACH 50 = ____	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
402.4.4 [FI29][2]	Where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening are located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms are sealed and insulated.			☐ 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:

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

2021 IECC Energy Efficiency Certificate

Insulation Rating	R-Value
Above-Grade Wall	25.00
Below-Grade Wall	34.00
Floor	10.00
Ceiling / Roof	60.00
Ductwork (unconditioned spaces):	____

Glass & Door Rating	U-Factor	SHGC
Window	0.25	0.24
Door	0.25	0.24
Skylight	0.00	

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

Signature

Name: _____ **Date:** _____

Comments: