



# COMcheck Software Version COMcheckWeb

## Envelope Compliance Certificate

### Project Information

Energy Code: 2018 IECC  
Project Title: Steamboat Basecamp Area 1A  
Location: Steamboat Springs, Colorado  
Climate Zone: 7  
Project Type: Addition  
Vertical Glazing / Wall Area: 18%

Construction Site:  
1901 Curve Plaza  
Steamboat Springs, Colorado 80487

Owner/Agent:

Designer/Contractor:

### Building Area

### Floor Area

1-Retail : Nonresidential	4568
2-Multifamily : Nonresidential	2168
3-Exercise Center : Nonresidential	3778

### Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor <sup>(a)</sup>
<b>NORTH</b>					
Ext. Wall: Wood-Framed, 24in. o.c., [Bldg. Use 1 - Retail]	2569	22.0	0.0	0.059	0.051
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Oldcastle, SHGC 0.41, [Bldg. Use 1 - Retail] (b)	463	---	---	0.290	0.290
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID Oldcastle, SHGC 0.40, [Bldg. Use 1 - Retail] (b)	31	---	---	0.290	0.770
Door: Glass (over 50% glazing): Metal Frame, Non-Entrance Door, Perf. Specs.: Product ID Overhead Door Company, SHGC 0.40, [Bldg. Use 1 - Retail] (b)	81	---	---	0.290	0.370
Ext. Wall: Wood-Framed, 24in. o.c., [Bldg. Use 2 - Multifamily]	974	22.0	0.0	0.059	0.051
<b>EAST</b>					
Ext. Wall: Wood-Framed, 24in. o.c., [Bldg. Use 1 - Retail]	1029	22.0	0.0	0.059	0.051
Door: Glass (over 50% glazing): Metal Frame, Non-Entrance Door, Perf. Specs.: Product ID Overhead Door Company, SHGC 0.40, [Bldg. Use 1 - Retail] (b)	88	---	---	0.290	0.370
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Retail]	24	---	---	0.570	0.370
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Existing, SHGC 0.40, [Bldg. Use 1 - Retail] (b)	38	---	---	0.290	0.290
Ext. Wall: Wood-Framed, 24in. o.c., [Bldg. Use 3 - Exercise Center]	1789	22.0	0.0	0.059	0.051
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Existing, SHGC 0.40, [Bldg. Use 3 - Exercise Center] (b)	134	---	---	0.290	0.290
Door: Insulated Metal, Swinging, [Bldg. Use 3 - Exercise Center]	25	---	---	0.570	0.370
<b>SOUTH</b>					
Ext. Wall: Wood-Framed, 24in. o.c., [Bldg. Use 3 - Exercise Center]	578	22.0	0.0	0.059	0.051

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor <sup>(a)</sup>
<b>WEST</b>					
Ext. Wall: Wood-Framed, 24in. o.c., [Bldg. Use 1 - Retail]	1481	22.0	0.0	0.059	0.051
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Oldcastle, SHGC 0.40, [Bldg. Use 1 - Retail] (b)	460	---	---	0.290	0.290
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID Oldcastle, SHGC 0.40, [Bldg. Use 1 - Retail] (b)	70	---	---	0.290	0.770
Ext. Wall: Wood-Framed, 24in. o.c., [Bldg. Use 3 - Exercise Center]	1047	22.0	0.0	0.059	0.051
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID Oldcastle, SHGC 0.40, [Bldg. Use 3 - Exercise Center] (b)	24	---	---	0.290	0.770
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Oldcastle, SHGC 0.40, [Bldg. Use 3 - Exercise Center] (b)	322	---	---	0.290	0.290
Ext. Wall: Wood-Framed, 24in. o.c., [Bldg. Use 2 - Multifamily]	967	22.0	0.0	0.059	0.051
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID Oldcastle, SHGC 0.40, [Bldg. Use 2 - Multifamily] (b)	25	---	---	0.290	0.770
Door: Glass (over 50% glazing): Metal Frame, Non-Entrance Door, Perf. Specs.: Product ID Overhead Door Company, SHGC 0.40, [Bldg. Use 2 - Multifamily] (b)	81	---	---	0.290	0.370
Window: Metal Frame: Fixed, Perf. Specs.: Product ID Existing, SHGC 0.40, [Bldg. Use 2 - Multifamily] (b)	77	---	---	0.290	0.290

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

## Envelope PASSES: Design 2% better than code

### Envelope Compliance Statement

*Compliance Statement:* The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title

Signature

Date



# Interior Lighting Compliance Certificate

## Project Information

Energy Code: 2018 IECC  
Project Title: Steamboat Basecamp Area 1A  
Project Type: Addition

Construction Site:  
1901 Curve Plaza  
Steamboat Springs, Colorado 80487

Owner/Agent:

Designer/Contractor:

## Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Retail:Sales Area	10514	1.22	12827
Total Allowed Watts =			12827

## Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Retail:Sales Area				
Total Proposed Watts =				0

**Interior Lighting TBD: No lighting fixtures specified**



# Exterior Lighting Compliance Certificate

## Project Information

Energy Code: 2018 IECC  
Project Title: Steamboat Basecamp Area 1A  
Project Type: Addition  
Exterior Lighting Zone: 0 (Unspecified)

Construction Site:  
1901 Curve Plaza  
Steamboat Springs, Colorado 80487

Owner/Agent:

Designer/Contractor:

## Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Total Tradable Watts (a) =				0
Total Allowed Watts =				0
Total Allowed Supplemental Watts (b) =				350

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

(b) A supplemental allowance equal to 350 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

## Proposed Exterior Lighting Power

Exterior Lighting TBD: Exterior lighting zone not specified (see project screen)



# COMcheck Software Version COMcheckWeb

## Mechanical Compliance Certificate

### Project Information

Energy Code: 2018 IECC  
Project Title: Steamboat Basecamp Area 1A  
Location: Steamboat Springs, Colorado  
Climate Zone: 7  
Project Type: Addition

Construction Site:  
1901 Curve Plaza  
Steamboat Springs, Colorado 80487

Owner/Agent:

Designer/Contractor:

### Mechanical Systems List

**Quantity System Type & Description**

### Mechanical Compliance Statement

*Compliance Statement:* The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

\_\_\_\_\_  
Name - Title

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



# Inspection Checklist

Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck 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	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR1] <sup>1</sup>	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C406 [PR9] <sup>1</sup>	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> 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	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C303.2.1 [FO6] <sup>1</sup>	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	<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	Framing / Rough-In Inspection	Complies?	Comments/Assumptions
C303.1.3 [FR12] <sup>2</sup>	Fenestration products rated in accordance with NFRC.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Default values are used.
C303.1.3 [FR13] <sup>1</sup>	Fenestration products are certified as to performance labels or certificates provided.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C402.4.3 [FR10] <sup>1</sup>	Vertical fenestration SHGC value.	<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.
C402.4.3, C402.4.3.4 [FR8] <sup>1</sup>	Installed vertical fenestration U-factor and SHGC consistent with label specifications and as reported in plans and COMcheck reports.	<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.
C402.5.1 [FR16] <sup>1</sup>	The building envelope contains a continuous air barrier that is sealed in an approved manner and either constructed or tested in an approved manner. Air barrier penetrations are sealed in an approved manner.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C402.5.2, C402.5.4 [FR18] <sup>3</sup>	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C402.5.7 [FR17] <sup>3</sup>	Vestibules are installed on all building entrances. Doors have self-closing devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Doors with air curtain.

**Additional Comments/Assumptions:**

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



Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.5.5, C403.2.4.3 [ME3] <sup>3</sup>	Stair and elevator shaft vents have motorized dampers that automatically close. Refernece section C403.7.7 for operational details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C403.7.7 [ME58] <sup>3</sup>	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed. Reference section language for operational details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Gravity dampers acceptable in buildings 3 stories.

**Additional Comments/Assumptions:**

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.6 [EL26] <sup>2</sup>	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.7 [EL27] <sup>2</sup>	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.8.2, C405.8.2.1 [EL28] <sup>2</sup>	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C405.9 [EL29] <sup>2</sup>	Total voltage drop across the combination of feeders and branch circuits $\leq 5\%$ .	<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	Complies?	Comments/Assumptions
C303.1 [IN10] <sup>2</sup>	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C303.2 [IN7] <sup>1</sup>	Above-grade 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.
C105 [IN6] <sup>1</sup>	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	<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.
C402.2.6 [IN18] <sup>3</sup>	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C402.5.1.1 [IN1] <sup>1</sup>	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	<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:**

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C402.5.6 [FI37] <sup>1</sup>	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C402.5.8 [FI26] <sup>3</sup>	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.1.1 [FI57] <sup>1</sup>	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<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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