COMcheck Software Version 4.1.1.0

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC

Project Title: Steamboat Springs Middle School

Project Type: Addition

Construction Site: 39610 Amethyst Dr. Steamboat Springs, CO 80487

Owner/Agent:

Designer/Contractor: BG Buildingworks 222 Chapel Place Unit AC-201 Avon, CO 81620 (970)-949-6108

Allowed Interior Lighting Power

	Α	В	С	D	
	Area Category	Floor Area (ft2)	Allowed Watts / ft2	Allowed Watts (B X C)	
1-School/University		7962	0.87	6927	
			Total Allowed Watts =	= 6927	

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	(C X D)
1-School/University				
LED 1: R1: Other:	1	6	49	294
LED 2: R2: Other:	1	11	100	1100
LED 3: R3: Other:	1	33	27	891
LED 4: R4: Other:	1	13	27	351
LED 5: S1: Other:	1	26	28	728
		Total Propos	ed Watts =	3364

Interior Lighting PASSES: Design 51% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Marc Sacconi, PE

Name - Title Signature

04-06-20

Page

1 of 7

Date

Project Title: Steamboat Springs Middle School Report date: 04/05/20

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Data filename: S:\BGProjects\10183.00 SSSD Steamboat Springs Middle School\Engineering Software

Files\Energy\Calcs\10183 - COMCheck.cck

COM*check* Software Version 4.1.1.0



Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC

Project Title: Steamboat Springs Middle School

Project Type:

Exterior Lighting Zone 2 (Residential mixed use area)

Construction Site: 39610 Amethyst Dr.

Steamboat Springs, CO 80487

Owner/Agent:

Designer/Contractor: **BG** Buildingworks 222 Chapel Place Unit AC-201 Avon, CO 81620 (970)-949-6108

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Other door (not main entry)	2 ft of door	20	Yes	40
		Total Tradab	ole Watts (a) =	40
		40		
	Total Alle	owed Supplemen	600	

- (a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
- (b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Other door (not main entry) (2 ft of door width): Tradable Wattage				
LED 1: ZW1E: Other:	1	1	44	44
	Total Trad	dable Propos	ed Watts =	44

Exterior Lighting PASSES: Design 93% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Marc Sacconi, PE 04-06-20 Name - Title Signature Date

Project Title: Steamboat Springs Middle School Report date: 04/05/20

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Data filename: S:\BGProjects\10183.00 SSSD Steamboat Springs Middle School\Engineering Software

Files\Energy\Calcs\10183 - COMCheck.cck

Page 2 of 7

COM*check* Software Version 4.1.1.0 **Inspection Checklist**

Energy Code: 2015 IECC

Requirements: 86.0% 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 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	□Complies □Does Not □Not Observable □Not Applicable	
C103.2 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	□Complies □Does Not □Not Observable □Not Applicable	
C406 [PR9] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	□Complies □Does Not □Not Observable □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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Project Title: Steamboat Springs Middle School

Data filename: S:\BGProjects\10183.00 SSSD Steamboat Springs Middle School\Engineering Software Files\Energy\Calcs\10183 - COMCheck.cck

Report date: 04/05/20

3 of 7 Page

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15] ¹	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: E0.1, E2.3, E2.11
C405.2.1 [EL18] ¹	Occupancy sensors installed in required spaces.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: E0.1, E2.3, E2.11
C405.2.1, C405.2.2. 3 [EL23] ²	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: E0.1, E2.3, E2.11
C405.2.2. 1 [EL22] ²	Automatic controls to shut off all building lighting installed in all buildings.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: E0.1, E2.3, E2.11
C405.2.3 [EL16] ²	Daylight zones provided with individual controls that control the lights independent of general area lighting.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: E0.1, E2.11
C405.2.3, C405.2.3. 1, C405.2.3. 2 [EL20] ¹	Primary sidelighted areas are equipped with required lighting controls.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: E0.1, E2.11
C405.2.3, C405.2.3. 1, C405.2.3. 3 [EL21] ¹	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C405.2.4 [EL4] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: E0.1, E2.11
C405.2.4 [EL8] ¹		□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: NA
C405.2.5 [EL25] ^{null}	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: E0.1, E2.11
C405.3 [EL6] ¹	Exit signs do not exceed 5 watts per face.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: E0.1, E2.11

Additional Comments/Assumptions:

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

Project Title: Steamboat Springs Middle School

Data filename: S:\BGProjects\10183.00 SSSD Steamboat Springs Middle School\Engineering Software Files\Energy\Calcs\10183 - COMCheck.cck

Report date: 04/05/20

Page 4 of 7

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

Report date: 04/05/20

Page

5 of 7

Project Title: Steamboat Springs Middle School

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5. 2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.4.1 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not □Not Observable □Not Applicable	See the Interior Lighting fixture schedule for values.
C405.5.1 [FI19] ¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not □Not Observable □Not Applicable	See the Exterior Lighting fixture schedule for values.
C408.2.5. 1 [FI16] ³	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	□Complies □Does Not □Not Observable □Not Applicable	
C408.3 [FI33] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	□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)

Report date: 04/05/20

Page

6 of 7

Project Title: Report date: 04/05/20 Steamboat Springs Middle School 7 of 7

Page

Data filename: S:\BGProjects\10183.00 SSSD Steamboat Springs Middle School\Engineering Software Files\Energy\Calcs\10183 - COMCheck.cck