# **COM***check* Software Version 4.1.1.0 **Interior Lighting Compliance Certificate**

### **Project Information**

Energy Code:	2018 IECC
Project Title:	Firestone
Project Type:	New Construction

Construction Site: Lee's Summit, MO	Owner/Agent:	Designer/Contractor: KS
Additional Efficiency Package(s)		

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

#### Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft		D Allowed Watts (B X C)	
1-Auto Repair Facility (Retail)	6550	0.95		6249	
	Т	otal Allowed W	Vatts =	6249	
Proposed Interior Lighting Power					
A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)	
<u>1-Auto Repair Facility (Retail)</u>					
A: A: Decorative Pendant: Other:	1	7	50	350	
D/DE: D/DE: 4' LED Linear Fixture: LED Linear 22W:	2	43	34	1462	
F: F: LED Hi-Bay: Other:	1	21	142	2982	
		Total Propos	sed Watts =	4794	

### Interior Lighting PASSES: Design 23% 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 2018 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

## Ian Collins - Electrical Designer

Name - Title

Collin an Signature

20/24/2020

Date

Project Title:

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# **COM***check* Software Version 4.1.1.0 **Exterior Lighting Compliance Certificate**

### **Project Information**

Energy Code:	2018 IECC
Project Title:	Firestone
Project Type:	New Construction
Exterior Lighting Zone	4 (High activity metropolitan commercial district)

Construction Site: Lee's Summit, MO	Owner/Agent:		Designer/C KS	ontractor:	
Allowed Exterior Lighting Power					
Α		В	С	D	Е
Area/Surface Category		Quantity	Allowed Watts / Unit	Tradable Wattage	Allowed Watts (B X C)
Employee Entrance (Pedestrian and vehicular	entrances and exits)	6 ft of door	21	Yes	126
Customer Entrance (Pedestrian and vehicular e	entrances and exits)	3 ft of door	21	Yes	63
Exterior Wallpacks (Illuminated area of facade	wall or surface)	120 ft2	0.15	No	18
			Total Tradab	ole Watts (a) =	189
			Total All	lowed Watts =	207
		Total All	owed Supplemen	tal Watts (b) =	900

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

(b) A supplemental allowance equal to 900 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

#### **Proposed Exterior Lighting Power**

B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Tradable W	attage		
1	2	19	38
Tradable W	attage		
1	2	19	38
Vattage			
1	14	19	266
Total Tra	dable Propos	ed Watts =	76
	Lamps/ Fixture Tradable W 1 Tradable W 1 Vattage 1	Lamps/ # of Fixture Fixtures	Lamps/ Fixture# of FixturesFixture Watt.Tradable Wattage 1219Tradable Wattage 1219Vattage1219

### Exterior Lighting PASSES: Design 91% 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 2018 IECC requirements in COM*check* Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

#### Ian Collins - Electrical Designer

Name - Title

olli an Signature

20/24/2020

Date

Project Title:

# COMcheck Software Version 4.1.1.0 **Mechanical Compliance Certificate**

### Project Information

Energy Code:	2018 IECC
Project Title:	Firestone
Location:	Lees Summit, Missouri
Climate Zone:	4a
Project Type:	New Construction

Construction Site: Lee's Summit, MO Owner/Agent:

Designer/Contractor: KS

### Additional Efficiency Package(s)

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

### **Mechanical Systems List**

#### Quantity System Type & Description

1 RTU-1 (Single Zone):

> Heating: 1 each - Central Furnace, Gas, Capacity = 108 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 80 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 11.00 EER, Required Efficiency: 11.00 EER + 12.6 IEER Fan System: RTU-1 -- Compliance (Motor nameplate HP method) : Passes

Fans:

FAN 1 Supply, Constant Volume, 2400 CFM, 2.0 motor nameplate hp, 0.0 fan efficiency grade

2 UH-1,2 (Unknown):

> Heating: 1 each - Unit Heater, Gas, Capacity = 30 kBtu/h Proposed Efficiency = 82.00% Ec, Required Efficiency: 80.00 % Ec Fan System: UH -- Compliance (Motor nameplate HP method) : Passes

Fans:

FAN 3 Supply, Constant Volume, 456 CFM, 0.1 motor nameplate hp, 0.0 fan efficiency grade

- 3 RAD-1,2,3 (Single Zone): Heating: 1 each - Radiant Heater, Gas, Capacity = 75 kBtu/h No minimum efficiency requirement applies Fan System: None
- 1 Water Heater 1: Gas Storage Water Heater, Capacity: 50 gallons, Input Rating: 76 kBtu/h w/ Circulation Pump Proposed Efficiency: 90.00 % Et, Required Efficiency: 80.00 % Et

#### **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 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Aaron Angel - Mechanical Designer Name - Title

20/24/2020

Date

Project Title: Firestone

# COMcheck Software Version 4.1.1.0 Inspection Checklist

Energy Code: 2018 IECC

Requirements: 0.0% were addressed directly in the COM*check* 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 # & Reg.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2] <sup>1</sup>	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	□Complies □Does Not □Not Observable □Not Applicable	
C103.2 [PR3] <sup>1</sup>	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	□Complies □Does Not □Not Observable □Not Applicable	
C103.2 [PR4] <sup>1</sup>	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] <sup>1</sup>	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] <sup>1</sup>	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	

Additional Comments/Assumptions:

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

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

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Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
,	protection systems have sensors and	□Complies □Does Not □Not Observable □Not Applicable	

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

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6] <sup>3</sup>	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	
C404.5, C404.5.1, C404.5.2 [PL6] <sup>3</sup>	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	
C404.5, C404.5.1, C404.5.2 [PL6] <sup>3</sup>	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	
C404.5, C404.5.1, C404.5.2 [PL6] <sup>3</sup>	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	
C404.6.1, C404.6.2 [PL3] <sup>1</sup>	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	□Complies □Does Not □Not Observable □Not Applicable	
C404.6.3 [PL7] <sup>3</sup>		□Complies □Does Not □Not Observable □Not Applicable	
C404.6.3 [PL7] <sup>3</sup>		□Complies □Does Not □Not Observable □Not Applicable	
C404.6.3 [PL7] <sup>3</sup>	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	□Complies □Does Not □Not Observable □Not Applicable	
C404.6.3 [PL7] <sup>3</sup>	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	□Complies □Does Not □Not Observable □Not Applicable	
C404.7 [PL8] <sup>3</sup>	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	□Complies □Does Not □Not Observable □Not Applicable	
C404.7 [PL8] <sup>3</sup>	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	□Complies □Does Not □Not Observable □Not Applicable	

2 Medium Impact (Tier 2)

3 Low Impact (Tier 3)

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Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.7 [PL8] <sup>3</sup>	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	□Complies □Does Not □Not Observable □Not Applicable	
C404.7 [PL8] <sup>3</sup>	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	□Complies □Does Not □Not Observable □Not Applicable	

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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41] <sup>3</sup>	Thermally ineffective panel surfaces of sensible heating panels have insulation $> = R-3.5$ .	□Complies □Does Not □Not Observable □Not Applicable	
C403.11.3 [ME61] <sup>2</sup>		Complies Does Not Not Observable Not Applicable	
C403.11.3 [ME61] <sup>2</sup>	HVAC piping insulation insulated in accordance with Table C403.11.3. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	□Complies □Does Not □Not Observable □Not Applicable	
C403.8.1 [ME65] <sup>3</sup>		□Complies □Does Not □Not Observable □Not Applicable	<i>See the Mechanical Systems list for values.</i>
C403.8.3 [ME117] <sup>2</sup>		□Complies □Does Not □Not Observable □Not Applicable	
C403.8.4 [ME142] <sup>2</sup>	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	□Complies □Does Not □Not Observable □Not Applicable	
C403.8.4 [ME142] <sup>2</sup>	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	□Complies □Does Not □Not Observable □Not Applicable	
C403.8.5 [ME143] <sup>2</sup>	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	□Complies □Does Not □Not Observable □Not Applicable	
C403.8.5 [ME143] <sup>2</sup>	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	□Complies □Does Not □Not Observable □Not Applicable	
C403.12.1 [ME71] <sup>2</sup>	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	□Complies □Does Not □Not Observable □Not Applicable	
C403.2.3 [ME55] <sup>2</sup>	HVAC equipment efficiency verified.	□Complies □Does Not □Not Observable □Not Applicable	<i>See the Mechanical Systems list for values.</i>

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3 Low Impact (Tier 3)

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Section #	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
& Req.ID			
C403.5.5 [ME113] <sup>2</sup>		□Complies □Does Not □Not Observable	
		Not Applicable	1           
C403.2.2 [ME59] <sup>1</sup>	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.		
C403.7.1 [ME59] <sup>1</sup>	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	□Complies □Does Not □Not Observable □Not Applicable	
C403.7.2 [ME115] <sup>3</sup>	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	□Complies □Does Not □Not Observable □Not Applicable	
C403.7.6 [ME141] <sup>3</sup>	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	□Complies □Does Not □Not Observable □Not Applicable	
C403.7.4 [ME57] <sup>1</sup>		□Complies □Does Not □Not Observable □Not Applicable	
C403.7.5 [ME116] <sup>3</sup>	replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum	□Complies □Does Not □Not Observable □Not Applicable	
,	accordance with C403.11.1 and	□Complies □Does Not □Not Observable □Not Applicable	
C403.5, C403.5.1, C403.5.2 [ME62] <sup>1</sup>	required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	□Complies □Does Not □Not Observable □Not Applicable	
C403.5.3. 3 [ME124] <sup>1</sup>	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.5.3.3 for applicable device types and climate zones.	□Complies □Does Not □Not Observable □Not Applicable	

2 Medium Impact (Tier 2)

3 Low Impact (Tier 3)

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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
	System capable of relieving excess outdoor air during air economizer operation to prevent overpressurizing the building. The relief air outlet located to avoid recirculation into the building.	□Complies □Does Not □Not Observable □Not Applicable	
C403.5.3. 5 [ME126] <sup>1</sup>	Return, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.7.7 for details.	□Complies □Does Not □Not Observable □Not Applicable	
C403.4.1. 4 [ME63] <sup>2</sup>	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	□Complies □Does Not □Not Observable □Not Applicable	
C403.3.3 [ME35] <sup>1</sup>	Hot gas bypass limited to: <=240 kBtu/h - 50% >240 kBtu/h - 25%	□Complies □Does Not □Not Observable □Not Applicable	
C404.2.1 [ME111] <sup>2</sup>	Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment >= 1,000 kBtu/h serves the entire building, thermal efficiency >= 90 Et. Where multiple pieces of water-heating equipment serve the building with combined rating >= 1,000 kBtu/h, the combined input- capacity-weighted-average thermal efficiency >= 90 Et. Exclude input rating of equipment in individual dwelling units and equipment <= 100 kBtu/h.	□Complies □Does Not □Not Observable □Not Applicable	
C408.2.2. 1 [ME53] <sup>3</sup>	Air outlets and zone terminal devices have means for air balancing.	□Complies □Does Not □Not Observable □Not Applicable	
C403.5, C403.5.1, C403.5.2 [ME123] <sup>3</sup>	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2	□Complies □Does Not □Not Observable □Not Applicable	

1 High Impact (Tier 1)

2 Medium Impact (Tier 2)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
2 [EL22] <sup>1</sup>	reduction controls have a manual control that allows the occupant to reduce the connected lighting load in	□Complies □Does Not □Not Observable □Not Applicable □	
C405.2.1, C405.2.1. 1 [EL18] <sup>1</sup>	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.1. 2 [EL19] <sup>1</sup>		□Complies □Does Not □Not Observable □Not Applicable	
C405.2.1. 3 [EL20] <sup>1</sup>	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting only when occupancy for the same area is detected.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.2. 1,		□Complies □Does Not □Not Observable □Not Applicable	

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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3, C405.2.3. 1, C405.2.3. 2 [EL23] <sup>2</sup>	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.		
C405.2.4 [EL26] <sup>1</sup>	Separate lighting control devices for specific uses installed per approved lighting plans.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.4 [EL27] <sup>1</sup>	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.5 [EL28] <sup>null</sup>	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	
C405.3 [EL6] <sup>1</sup>	Exit signs do not exceed 5 watts per face.	□Complies □Does Not □Not Observable □Not Applicable	
C405.6 [EL26] <sup>2</sup>	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	□Complies □Does Not □Not Observable □Not Applicable	
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).	□Complies □Does Not □Not Observable □Not Applicable	
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.	□Complies □Does Not □Not Observable □Not Applicable	
C405.9 [EL29] <sup>2</sup>	Total voltage drop across the combination of feeders and branch circuits $\leq 5\%$ .	□Complies □Does Not □Not Observable □Not Applicable	

1 High Impact (Tier 1) 2 Medium II

2 Medium Impact (Tier 2)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5. 2 [FI17] <sup>3</sup>	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	□Complies □Does Not □Not Observable □Not Applicable	
C303.3, C408.2.5. 3 [FI8] <sup>3</sup>	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	□Complies □Does Not □Not Observable □Not Applicable	
C403.2.2 [FI27] <sup>3</sup>	HVAC systems and equipment capacity does not exceed calculated loads.	□Complies □Does Not □Not Observable □Not Applicable	
C403.2.4. 1 [FI47] <sup>3</sup>	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	□Complies □Does Not □Not Observable □Not Applicable	
C403.2.4. 1 [FI47] <sup>3</sup>	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	□Complies □Does Not □Not Observable □Not Applicable	
C403.2.4. 1 [FI47] <sup>3</sup>	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	□Complies □Does Not □Not Observable □Not Applicable	
C403.4.1. 2 [FI38] <sup>3</sup>	Thermostatic controls have a 5 °F deadband.	□Complies □Does Not □Not Observable □Not Applicable	
C403.2.4. 1.3 [FI20] <sup>3</sup>	Temperature controls have setpoint overlap restrictions.	□Complies □Does Not □Not Observable □Not Applicable	
C403.2.4. 2 [FI39] <sup>3</sup>	Each zone equipped with setback controls using automatic time clock or programmable control system.	□Complies □Does Not □Not Observable □Not Applicable	
C403.2.4. 2.1, C403.2.4. 2.2 [FI40] <sup>3</sup>	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2- hour occupant override, 10-hour backup	□Complies □Does Not □Not Observable □Not Applicable	
C403.2.4. 2.3 [FI41] <sup>3</sup>	Systems include optimum start controls.	□Complies □Does Not □Not Observable □Not Applicable	

2 Medium Impact (Tier 2)

3 Low Impact (Tier 3)

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C403.2.4. 2.3 [FI41] <sup>3</sup>	Systems include optimum start controls.	□Complies □Does Not	
		□Not Observable □Not Applicable	
C404.3 [FI11] <sup>3</sup>	Heat traps installed on supply and discharge piping of non-circulating systems.	Complies	
		□Not Observable □Not Applicable	
C404.4 [FI25] <sup>2</sup>	All piping insulated in accordance with section details and Table C403.11.3.	$\Box$ Does Not	
		□Not Observable □Not Applicable	
C404.6.1 [FI12] <sup>3</sup>	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a	Complies	
	storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	□Not Observable □Not Applicable	
C405.4.1 [FI18] <sup>1</sup>	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] <sup>1</sup>	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.
C408.1.1 [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.	□Complies □Does Not □Not Observable □Not Applicable	
C408.2.1 [FI28] <sup>1</sup>	Commissioning plan developed by registered design professional or approved agency.	□Complies □Does Not □Not Observable □Not Applicable	
C408.2.3. 1	HVAC equipment has been tested to ensure proper operation.	□Complies □Does Not	
[FI31] <sup>1</sup>		□Not Observable □Not Applicable	
C408.2.3. 2 [FI10] <sup>1</sup>	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	□Complies □Does Not □Not Observable	
C408.2.3. 3 [FI32] <sup>1</sup>	Economizers have been tested to ensure proper operation.	□Not Applicable □Complies □Does Not □Not Observable	
		Not Observable	

2 Medium Impact (Tier 2)

3 Low Impact (Tier 3)

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.4 [FI29] <sup>1</sup>	Preliminary commissioning report completed and certified by registered design professional or approved agency.	□Complies □Does Not	
		□Not Observable □Not Applicable	
C408.2.5. 1 [FI7] <sup>3</sup>	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	□Complies □Does Not	
[[]]]		□Not Observable □Not Applicable	
C408.2.5. 1 [FI16] <sup>3</sup>	· · · · · · · · · · · · · · · · · · ·	□Complies □Does Not	
[[10]-		□Not Observable □Not Applicable	
C408.2.5. 3 [FI43] <sup>1</sup>	An air and/or hydronic system balancing report is provided for HVAC systems.	□Complies □Does Not	
[[145]-		□Not Observable □Not Applicable	
C408.2.5.	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	□Complies □Does Not	
[FI30] <sup>1</sup>		□Not Observable □Not Applicable	
C408.3 [FI33] <sup>1</sup>	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	□Complies □Does Not	
		□Not Observable □Not Applicable	

1 High Impact (Tier 1)

2 Medium Impact (Tier 2)