

# **Project Information**

Energy Code: 2018 IECC

Project Title: CFA #5248 - Lee's Summit, MO - P14-LSR BN

Location: Lees Summit, Missouri

Climate Zone: 4a

Project Type: New Construction

Vertical Glazing / Wall Area: 11%

Construction Site:

SW Corner Hwy 50 & MO State Rte 291

Store #4714

Lees Summit, Missouri 64081

Owner/Agent: Chick-fil-A

5200 Buffington Road Atlanta, Georgia 30349 Designer/Contractor:

Kurzynske & Associates 2705 Lebanon Pike - Suite One Nashville, Tennessee 37214

615-255-5203

## Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed Reduced Lighting Power, 1.0 credit

Building Area Floor Area

1-Dining: Cafeteria/Fast Food : Nonresidential 5146

### **Envelope Assemblies**

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor <sub>(a)</sub>
Roof 1: Insulation Entirely Above Deck, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	5146		30.0	0.032	0.032
Floor 1: Unheated Slab-On-Grade, Vertical 3 ft., [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (c)	338		10.0	0.510	0.540
NORTH Drive-Thru Side - Behind Hood: Steel-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	548	13.0	7.5	0.064	0.064
Drive-Thru Side: Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	1438	20.0	0.0	0.064	0.064
General Windows: Metal Frame:Fixed, Perf. Specs.: Product ID NA, SHGC 0.36, PF 0.13, VT 0.62, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	144			0.390	0.380
Kitchen Windows: Metal Frame:Fixed, Perf. Specs.: Product ID NA, SHGC 0.36, PF 5.00, VT 0.62, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	20			0.390	0.380
Team Member Door: Glass (> 50% glazing):Metal Frame, Non- Entrance Door, Perf. Specs.: Product ID NA, SHGC 0.29, PF 1.14, VT 0.54, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	21			0.600	0.450
Drive Thru Sliding Door: Glass (> 50% glazing):Metal Frame, Non-Entrance Door, Perf. Specs.: Product ID NA, SHGC 0.26, PF 1.20, VT 0.44, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	26			0.700	0.450
Drive Thru Sliding Door Panels: Uninsulated Single-Layer Metal, Non-Swinging, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	26			0.500	0.179
EAST Front (Dining): Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	749	20.0	0.0	0.064	0.064
Window Beside Entry B Door: Metal Frame:Fixed, Perf. Specs.:	21			0.390	0.380

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Assembly	Gross Area or	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor <sub>(a)</sub>
	Perimeter				
Product ID NA, SHGC 0.36, PF 0.41, VT 0.62, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)					
Window Above Entry B Door: Metal Frame:Fixed, Perf. Specs.: Product ID NA, SHGC 0.36, PF 1.60, VT 0.62, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	15			0.390	0.380
General Windows: Metal Frame:Fixed, Perf. Specs.: Product ID NA, SHGC 0.36, PF 0.13, VT 0.62, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	96			0.390	0.380
Drive-thru Window Surround: Metal Frame:Fixed, Perf. Specs.: Product ID NA, SHGC 0.36, PF 5.00, VT 0.62, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	11			0.390	0.380
Entry B Door: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID NA, SHGC 0.29, PF 0.41, VT 0.54, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	24			0.600	0.770
<u>SOUTH</u>					
Main Entry Side: Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	1986	20.0	0.0	0.064	0.064
General Windows: Metal Frame:Fixed, Perf. Specs.: Product ID NA, SHGC 0.36, PF 0.13, VT 0.62, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	96			0.390	0.380
Kitchen Windows: Metal Frame:Fixed, Perf. Specs.: Product ID NA, SHGC 0.36, PF 0.60, VT 0.62, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	32			0.390	0.380
Window Above Take-Out Door: Metal Frame:Fixed, Perf. Specs.: Product ID NA, SHGC 0.36, PF 0.39, VT 0.62, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	9			0.390	0.380
Window Over Main Entry Door: Metal Frame:Fixed, Perf. Specs.: Product ID NA, SHGC 0.36, PF 1.35, VT 0.62, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	16			0.390	0.380
Take-Out Door: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID NA, SHGC 0.29, PF 0.10, VT 0.54, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	24			0.600	0.770
Main Entry Door: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID NA, SHGC 0.29, PF 0.36, VT 0.54, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	45			0.600	0.770
WEST					
Rear: Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	749	20.0	0.0	0.064	0.064
Drive-thru Window Surround: Metal Frame:Fixed, Perf. Specs.: Product ID NA, SHGC 0.36, PF 5.00, VT 0.62, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	11			0.390	0.380
Rear Entry Door: Insulated Metal, Swinging, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	31			0.330	0.610
Fire Riser Room Door: Insulated Metal, Swinging, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	24			0.330	0.610

- (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.
- (c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

#### 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.

Mark Kurzynske, P.E.	MARKIT.	11/14/24
Name - Title	Signature Signature	Date

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# **COM***check* **Software Version COM***checkWeb*

# **Mechanical Compliance Certificate**

### **Project Information**

**Energy Code:** 2018 IECC

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Location: Lees Summit. Missouri

Climate Zone:

Project Type: **New Construction** 

Construction Site:

SW Corner Hwy 50 & MO State Rte

291

Store #4714

Lees Summit, Missouri 64081

Owner/Agent: Chick-fil-A

5200 Buffington Road Atlanta, Georgia 30349 Designer/Contractor:

Kurzynske & Associates 2705 Lebanon Pike - Suite One Nashville, Tennessee 37214

615-255-5203

### Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed Reduced Lighting Power, 1.0 credit

#### **Mechanical Systems List**

#### **Quantity System Type & Description**

AC#1 (25 ton) (Single Zone):

Heating: 1 each - Central Furnace, Gas, Capacity = 324 kBtu/h

Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et

Cooling: 1 each - Single Package DX Unit, Capacity = 268 kBtu/h, Air-Cooled Condenser, Air Economizer

Proposed Efficiency = 9.80 EER, Required Efficiency = 9.80 EER

Proposed Part Load Efficiency = 13.00 IEER, Required Part Load Efficiency = 11.40 IEER

Fan System: AC#1 | Kitchen -- Compliance (Motor nameplate HP and fan efficiency method): Passes

Supply Supply, Constant Volume, 4063 CFM, 3.0 motor nameplate hp, 80.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency, fan exception: Part of code listed equipment

Supply Supply, Constant Volume, 4062 CFM, 3.0 motor nameplate hp, 91.7 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency, fan exception: Part of code listed equipment

AC#2 (12.5 ton) (Single Zone):

Heating: 1 each - Central Furnace, Gas, Capacity = 203 kBtu/h

Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE

Cooling: 1 each - Single Package DX Unit, Capacity = 141 kBtu/h, Air-Cooled Condenser, Air Economizer

Proposed Efficiency = 10.80 EER, Required Efficiency = 10.80 EER

Proposed Part Load Efficiency = 14.00 IEER, Required Part Load Efficiency = 12.20 IEER

Fan System: AC#2 | Drive Thru -- Compliance (Motor nameplate HP and fan efficiency method): Passes

Supply Supply, Constant Volume, 4375 CFM, 4.6 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency, fan exception: Part of code listed equipment

AC#3 (15 ton) (Single Zone):

Heating: 1 each - Central Furnace, Gas, Capacity = 324 kBtu/h

Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et

Cooling: 1 each - Single Package DX Unit, Capacity = 179 kBtu/h, Air-Cooled Condenser, Air Economizer

Proposed Efficiency = 10.80 EER, Required Efficiency = 10.80 EER

Proposed Part Load Efficiency = 14.00 IEER, Required Part Load Efficiency = 12.20 IEER

Fan System: AC#3 | Dining -- Compliance (Brake HP and fan efficiency method): Passes

Supply Supply, Constant Volume, 2625 CFM, 3.0 motor nameplate hp, 2.2 design brake hp (3.5 max, BHP), 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Part of code listed equipment Exhaust Supply, Constant Volume, 2625 CFM, 3.0 motor nameplate hp, 2.2 design brake hp (3.5 max. BHP), 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Part of code listed equipment Pressure Drop Credits:

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#### **Quantity System Type & Description**

Fully ducted return and/or exhaust air systems, 0.4841 credit

AC#4 (5-ton) (Single Zone): 1

Heating: 1 each - Central Furnace, Gas, Capacity = 122 kBtu/h

Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE

Cooling: 1 each - Single Package DX Unit, Capacity = 59 kBtu/h, Air-Cooled Condenser, Air Economizer

Proposed Efficiency = 16.40 SEER, Required Efficiency = 14.00 SEER

Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00

Fan System: AC#4 | Back of House -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

FAN 7 Supply, Constant Volume, 1750 CFM, 3.0 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency, fan exception: Single fan <= 5HP

EH#1 (Single Zone w/ PerimeterSystem): 1

> Heating: 1 each - Radiant Heater, Electric, Capacity = 20 kBtu/h No minimum efficiency requirement applies

GIH (Single Zone w/ PerimeterSystem): 6

> Heating: 1 each - Radiant Heater, Gas, Capacity = 50 kBtu/h No minimum efficiency requirement applies

2 Water Heater:

> Gas Instantaneous Water Heater, Capacity: 12 gallons, Input Rating: 199 kBtu/h w/ Circulation Pump No minimum efficiency requirement applies

### **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. TE OF MISSO

Mark Kurzynske, P.E.	WARKT: VI	11/14/24
Name - Title	Signature Signature	Date
	PROFESSIONAL	

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# **COM***check* **Software Version COM***checkWeb*

# **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.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
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	Requirement will be met.
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	Requirement will be met.
C402.4.1 [PR10] <sup>1</sup>	The vertical fenestration area <= 30 percent of the gross above-grade wall area.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C402.4.1 [PR11] <sup>1</sup>	The skylight area <= 3 percent of the gross roof area.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C402.4.2 [PR14] <sup>1</sup>	In enclosed spaces > 2,500 ft2 directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage, gymnasium/exercise center, convention center, automotive service, manufacturing, non-refrigerated warehouse, retail store, distribution/sorting area, transportation, or workshop, the following requirements apply: (a) the daylight zone under skylights is >= half the floor area; (b) the skylight area to daylight zone is >= 3 percent with a skylight VT >= 0.40; or a minimum skylight effective aperture >= 1 percent.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.

2 Medium Impact (Tier 2)

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1 High Impact (Tier 1)

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3 Low Impact (Tier 3)

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
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	

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Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C303.2 [FO4] <sup>2</sup>	Slab edge insulation installed per manufacturer's instructions.	$\square$ Complies $\square$ Does Not	Requirement will be met.
		□Not Observable □Not Applicable	
C303.2.1 [FO6] <sup>1</sup>	Exterior insulation protected against damage, sunlight, moisture, wind,	$\square$ Complies $\square$ Does Not	Requirement will be met.
	landscaping and equipment maintenance activities.	□Not Observable □Not Applicable	
C105 [FO3] <sup>2</sup>	and R-value consistent with insulation	$\square$ Complies $\square$ Does Not	See the Envelope Assemblies table for values.
	specifications reported in plans and COMcheck reports.	□Not Observable □Not Applicable	
C402.2.4 [FO7] <sup>2</sup>	Slab edge insulation depth/length. Slab insulation extending away from	□Complies □Does Not	Requirement will be met.
	building is covered by pavement or >= 10 inches of soil.	□Not Observable □Not Applicable	See the Envelope Assemblies table for values.
,	Snow/ice melting system and freeze protection systems have sensors and	□Complies □Does Not	Requirement will be met.
C403.12.3 [FO9] <sup>3</sup>	controls configured to limit service for pavement temperature and outdoor temperature. future connection to controls.	□Not Observable □Not Applicable	

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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.	□Complies □Does Not	Requirement will be met.
		□Not Observable □Not Applicable	
C303.1.3 [FR13] <sup>1</sup>	Fenestration products are certified as to performance labels or certificates	□Complies □Does Not	Requirement will be met.
	provided.	□Not Observable □Not Applicable	
C402.4.3 [FR10] <sup>1</sup>	Vertical fenestration SHGC value.	□Complies □Does Not	See the Envelope Assemblies table for values.
		□Not Observable □Not Applicable	
C402.4.3.	and SHGC consistent with label	□Complies □Does Not	See the Envelope Assemblies table for values.
4 [FR8] <sup>1</sup>	specifications and as reported in plans and COMcheck reports.	□Not Observable □Not Applicable	
C402.5.1. 2.1	The building envelope contains a continuous air barrier that is sealed in	□Complies □Does Not	Requirement will be met.
[FR19] <sup>1</sup>	an approved manner and material permeability <= 0.004 dfm/ft2. Air barrier penetrations are sealed in an approved manner.	□Not Observable □Not Applicable	
C402.5.4	Factory-built fenestration and doors are labeled as meeting air leakage	□Complies □Does Not	Requirement will be met.
[FR18] <sup>3</sup>	requirements.	□Not Observable □Not Applicable	
C402.5.7 [FR17] <sup>3</sup>	Vestibules are installed on all building entrances. Doors have self-closing	□Complies □Does Not	Exception: Doors with air curtain.
	devices.	□Not Observable □Not Applicable	

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

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Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, 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	Requirement will be met.
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	Requirement will be met.
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	Requirement will be met.
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	Requirement will be met.

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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	Requirement will be met.
		□Not Observable □Not Applicable	
C402.5.5, C403.2.4. 3 [ME3] <sup>3</sup>	motorized dampers that automatically close. Reference section C403.7.7 for operational details.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C403.7.7 [ME58] <sup>3</sup>		□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.11.3 [ME61] <sup>2</sup>		□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.8.1 [ME65] <sup>3</sup>	HVAC fan systems at design	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.  See the Mechanical Systems list for values.
C403.8.2 [ME21] <sup>2</sup>	HVAC fan motors not oversized beyond allowable limits.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.8.3 [ME117] <sup>2</sup>	67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the	□Complies □Does Not □Not Observable □Not Applicable	<b>Exception:</b> Fans integral to equipment listed under Section C403.2.3.
C403.8.4 [ME142] <sup>2</sup>		□Complies □Does Not □Not Observable □Not Applicable	<b>Exception:</b> Motors in space-conditioning equipment that comply with Section C403.3.2 or Sections C403.8.1. through C403.8.3.
C403.8.5 [ME143] <sup>2</sup>		□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
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	Requirement will be met.
C403.5.5 [ME113] <sup>2</sup>		□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

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

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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.2.2 [ME59] <sup>1</sup>	provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.7.1 [ME59] <sup>1</sup>		□Complies □Does Not □Not Observable □Not Applicable	<b>Exception:</b> Spaces where the supply airflow rate minus makeup air and minus outgoing transfer air is less than 1200 cfm.
C403.7.2 [ME115] <sup>3</sup>		□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C403.7.6 [ME141] <sup>3</sup>	Group Ř-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C403.7.4 [ME57] <sup>1</sup>	systems meeting Table C403.7.4(1) and C403.7.4(2).	□Complies □Does Not □Not Observable □Not Applicable	<b>Exception:</b> Where prohibited by the International Mechanical Code.
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	Requirement will be met.
,	accordance with C403.11.1 and constructed in accordance with C403.11.2, verification may need to	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.5, C403.5.1, C403.5.2 [ME62] <sup>1</sup>		□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.5.3. 3 [ME124] <sup>1</sup>	outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.5.3. 4 [ME125] <sup>1</sup>	outdoor air during air economizer operation to prevent overpressurizing the building. The relief air outlet	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

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
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	Requirement will be met.
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	<b>Exception:</b> Requirement does not apply.
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	Requirement will be met.
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	Requirement will be met.
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	Requirement will be met.

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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.	☐Complies ☐Does Not ☐Not Observable ☐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).	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
	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	<b>Exception:</b> Requirement does not apply.
C405.9 [EL29] <sup>2</sup>	Total voltage drop across the combination of feeders and branch circuits <= 5%.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

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Section				
# & Req.ID	Insulation Inspection	Complies?	Comments/Assumptions	
C303.1 [IN3] <sup>1</sup>	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the roof slope is <=3 in 12.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.	
C402.2.1 [IN20] <sup>1</sup>	Insulation installed on a suspended ceiling having ceiling tiles is not being specified for roor/ceiling assemblies. Continuous insulation board installed in 2 or more layers with edge joints offset between layers.	□Complies □Does Not □Not Observable □Not Applicable		
C303.1 [IN10] <sup>2</sup>	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.	
C303.2 [IN7] <sup>1</sup>	Above-grade wall insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.	
C402.1.3 [IN19] <sup>3</sup>	Non-swinging opaque doors have R-4.75 insulation.	☐Complies ☐Does Not ☐Not Observable ☐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.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	See the Envelope Assemblies table for values.	
C402.2.3 [IN8] <sup>2</sup>	Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐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.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.	
C105 [IN2] <sup>1</sup>	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.	
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 vaporpermeable wrapping material to minimize air leakage.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.	

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions	
C303.3, C408.2.5. 3 [FI8] <sup>3</sup>		□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.	
C402.5.6 [FI37] <sup>1</sup>	dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.	
C402.5.8 [FI26] <sup>3</sup>		□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.	
C403.2.2 [FI27] <sup>3</sup>	capacity does not exceed calculated loads.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.	
C403.2.4. 1 [FI47] <sup>3</sup>	Heating and cooling to each zone is	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.	
C403.4.1. 2 [FI38] <sup>3</sup>	Thermostatic controls have a 5 °F deadband.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.	
C403.2.4. 1.3 [FI20] <sup>3</sup>	Temperature controls have setpoint	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.	
C403.2.4. 2 [FI39] <sup>3</sup>	controls using automatic time clock or programmable control system.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.	
C403.2.4. 2.1, C403.2.4. 2.2 [FI40] <sup>3</sup>		□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.	
C403.2.4. 2.3 [FI41] <sup>3</sup>	Systems include optimum start controls.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.	
C404.3 [FI11] <sup>3</sup>		□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.	
C404.4 [FI25] <sup>2</sup>		□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.	

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C404.6.1 [FI12] <sup>3</sup>	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	□Complies □Does Not □Not Observable □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.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C408.2.1 [FI28] <sup>1</sup>	Commissioning plan developed by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3. 1 [FI31] <sup>1</sup>	HVAC equipment has been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3. 2 [FI10] <sup>1</sup>		☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3. 3 [FI32] <sup>1</sup>	Economizers have been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.4 [FI29] <sup>1</sup>		☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5. 1 [FI7] <sup>3</sup>		☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5. 3 [FI43] <sup>1</sup>	balancing report is provided for HVAC systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5. 4 [FI30] <sup>1</sup>	Final commissioning report due to	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

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