



# COMcheck Software Version COMcheckWeb Envelope Compliance Certificate

## Project Information

Energy Code: 2020 Florida Building Code, Energy Conservation  
Project Title: Autozone Store #1239  
Location: Alachua, Florida  
Climate Zone: 2a  
Project Type: Addition

Construction Site:  
Port St Lucie, FL 34952

Owner/Agent:  
Autozone Store Development  
123 S. Front Street  
Memphis, TN 38103

Designer/Contractor:  
Danny Doss  
Advanced Consulting Engineers,  
Inc.  
132 Kelley Drive  
Rogers, AR 72757  
479-631-1712  
acei@advengineers.com

## Building Area

## Floor Area

1-Warehouse : Nonresidential

12020

## Envelope Assemblies

| Assembly  | Gross Area<br>or<br>Perimeter | Cavity<br>R-Value | Cont.<br>R-Value | Proposed<br>U-Factor | Budget U-<br>Factor <sup>(a)</sup> |
|---|-------------------------------|-------------------|------------------|----------------------|------------------------------------|
| Roof 1: Insulation Entirely Above Deck: High Albedo Roof Required, 3-Year-Aged Solar Reflectance Index = 70.00, Thermal Emittance = 0.82 (c), [Bldg. Use 1 - Warehouse] | 12020                         | ---               | 30.0             | 0.032                | 0.039                              |
| <b>NORTH</b>  |                               |                   |                  |                      |                                    |
| Exterior Wall 3: Other Mass Wall, Heat capacity 12.0, [Bldg. Use 1 - Warehouse] (b)   | 1785                          | ---               | ---              | 0.103                | 0.151                              |
| Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse]  | 42                            | ---               | ---              | 0.175                | 0.610                              |
| <b>SOUTH</b>  |                               |                   |                  |                      |                                    |
| Exterior Wall 1: Other Mass Wall, Heat capacity 12.0, [Bldg. Use 1 - Warehouse] (b)   | 1785                          | ---               | ---              | 0.103                | 0.151                              |
| <b>WEST</b>   |                               |                   |                  |                      |                                    |
| Exterior Wall 2: Other Mass Wall, Heat capacity 12.0, [Bldg. Use 1 - Warehouse] (b)   | 1590                          | ---               | ---              | 0.103                | 0.151                              |

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

(b) 'Other' components require supporting documentation for proposed U-factors.

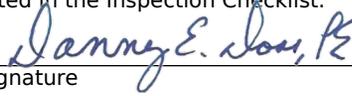
(c) High albedo roof requirement options: 1) 3-year aged solar reflectance index  $\geq 55.0$  thermal emittance  $\geq 0.75$ , 2) 3-year aged solar reflectance index  $\geq 64.0$ , 3) Initial year aged solar reflectance  $\geq 0.70$  thermal emittance  $\geq 0.75$ , 4) Initial year aged solar reflectance index  $\geq 82.0$ .

## Project Notes

## 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 2020 Florida Building Code, Energy Conservation requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Danny E. Doss P.E.  
Name - Title

  
Signature

02-14-23  
Date

Provided By:  
Jonathan Doss  
Building Energy Solutions Team  
P.O. Box 427  
Rogers, Arkansas 72757-0427



# Interior Lighting Compliance Certificate

## Project Information

Energy Code: 2020 Florida Building Code, Energy Conservation  
 Project Title: Autozone Store #1239  
 Project Type: Addition

Construction Site:  
 Port St Lucie, FL 34952

Owner/Agent:  
 Autozone Store Development  
 123 S. Front Street  
 Memphis, TN 38103

Designer/Contractor:  
 Danny Doss  
 Advanced Consulting Engineers,  
 Inc.  
 132 Kelley Drive  
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 479-631-1712  
 acei@advengineers.com

## Allowed Interior Lighting Power

| A<br>Area Category  | B<br>Floor Area<br>(ft <sup>2</sup> ) | C<br>Allowed<br>Watts / ft <sup>2</sup> | D<br>Allowed Watts |
|---|---------------------------------------|---|--------------------|
| 1-warehouse (Warehouse Storage:Smaller, Hand-Carried Items) | 12021                                 | 0.69                                    | 8294               |
| Total Allowed Watts =                                       |                                       |   | 8294               |

## Proposed Interior Lighting Power

| A<br>Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast                  | B<br>Lamps/<br>Fixture | C<br># of<br>Fixture | D<br>Fixture<br>Watt. | E<br>(C X D) |
|--|------------------------|----------------------|-----------------------|--------------|
| 1-warehouse (Warehouse Storage:Smaller, Hand-Carried Items)<br>LED: B: LED: Other: | 2                      | 208                  | 24                    | 4992         |
| Total Proposed Watts =   |                        |                      |                       | 4992         |

**Interior Lighting PASSES: Design 40% 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 2020 Florida Building Code, Energy Conservation requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Danny E. Doss P.E.  
 Name - Title

Signature

02-14-23

Date



# Exterior Lighting Compliance Certificate

## Project Information

Energy Code: 2020 Florida Building Code, Energy Conservation  
 Project Title: Autozone Store #1239  
 Project Type: Addition  
 Exterior Lighting Zone: 2 (Neighborhood business district (LZ2))

Construction Site:  
 Port St Lucie, FL 34952

Owner/Agent:  
 Autozone Store Development  
 123 S. Front Street  
 Memphis, TN 38103

Designer/Contractor:  
 Danny Doss  
 Advanced Consulting Engineers,  
 Inc.  
 132 Kelley Drive  
 Rogers, AR 72757  
 479-631-1712  
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## Allowed Exterior Lighting Power

| A<br>Area/Surface Category                 | B<br>Quantity | C<br>Allowed<br>Watts / | D<br>Tradable<br>Wattage | E<br>Allowed Watts<br>(B X C) |
|--|---------------|-------------------------|--------------------------|-------------------------------|
| Illuminated area of facade wall or surface | 1875 ft2      | 0.07                    | No                       | 141                           |
| Total Tradable Watts (a) =                 |               |                         |                          | 0                             |
| Total Allowed Watts =                      |               |                         |                          | 141                           |
| Total Allowed Supplemental Watts (b) =     |               |                         |                          | 400                           |

- (a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
- (b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

## Proposed Exterior Lighting Power

| A<br>Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast                  | B<br>Lamps/<br>Fixture | C<br># of<br>Fixture | D<br>Fixture<br>Watt. | E<br>(C X D) |
|--|------------------------|----------------------|-----------------------|--------------|
| <u>Illuminated area of facade wall or surface (1875 ft2): Non-tradable Wattage</u> |                        |                      |                       |              |
| LED 1: D: LED Other Fixture Unit 50W:  | 1                      | 4                    | 49                    | 196          |
| Total Tradable Proposed Watts =  |                        |                      |                       | 0            |

**Exterior Lighting PASSES: Design 0.0% 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 2020 Florida Building Code, Energy Conservation requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Danny E. Doss P.E.  
 Name - Title

Signature

02-14-23  
 Date



# COMcheck Software Version COMcheckWeb Mechanical Compliance Certificate

## Project Information

Energy Code: 2020 Florida Building Code, Energy Conservation  
Project Title: Autozone Store #1239  
Location: Alachua, Florida  
Climate Zone: 2a  
Project Type: Addition

Construction Site:  
Port St Lucie, FL 34952

Owner/Agent:  
Autozone Store Development  
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## Mechanical Systems List

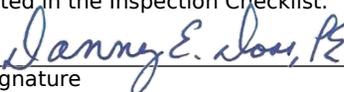
### Quantity System Type & Description

- 3 HVAC System 1 (Single Zone):  
Single Package Heat Pump  
Heating Mode: Capacity = 100 kBtu/h,  
Proposed Efficiency = 3.30 COP, Required Efficiency = 3.30 COP  
Cooling Mode: Capacity = 122 kBtu/h,  
Proposed Efficiency = 11.00 EER, Required Efficiency = 11.00 EER  
Proposed Part Load Efficiency = 0.00 IEER, Required Part Load Efficiency = 12.00 IEER  
Fan System: None

## 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 2020 Florida Building Code, Energy Conservation requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Danny E. Doss P.E.  
Name - Title

  
Signature

02-14-23  
Date



# Inspection Checklist

Energy Code: 2020 Florida Building Code, Energy Conservation

Requirements: 95.0% 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<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> 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.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met. |
| 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. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met. |
| 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. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> 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.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met. |
| C402.4.1 [PR11] <sup>1</sup> | The skylight area <= 3 percent of the gross roof area.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met. |

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

| Section # & Req.ID           | Plan Review   | Complies?  | Comments/Assumptions   |
|------------------------------|---|--|--|
| C402.4.2 [PR14] <sup>1</sup> | In enclosed spaces > 2,500 ft <sup>2</sup> 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 or <= 0.66 using Tubular Daylighting Device's VT rating. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Spaces where the total area net of daylight zones adjacent to vertical fenestration 2,500 s.f. and where the lighting is controlled. |
| 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<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><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) |
|------------------------|--------------------------|-----------------------|

| 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<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |
| C403.2.4.5 [FO9] <sup>3</sup> | Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature. future connection to controls. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply. |

**Additional Comments/Assumptions:**

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

| 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<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |
| C303.1.3 [FR13] <sup>1</sup>            | Fenestration products are certified as to performance labels or certificates provided.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |
| C402.4.3 [FR10] <sup>1</sup>            | Vertical fenestration SHGC value.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><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<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><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<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><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) |
|---|----------------------|---|------------------------|---|---------------------|

| 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 $\geq$ R-3.5.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply.                                  |
| C402.5.5, C403.2.4.3 [ME3] <sup>3</sup> | Stair and elevator shaft vents have motorized dampers that automatically close. Refernece section C403.2.4.3 for operational details.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply.                                  |
| C403.2.12.1 [ME65] <sup>3</sup>         | HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.<br><i>See the Mechanical Systems list for values.</i> |
| C403.2.12.3 [ME117] <sup>2</sup>        | Fans have energy index (FEI) $\geq$ 1.00 in accordance with AMCA 208. Fans for VAV systems shall have an FEI $\geq$ 0.95.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.   |
| C403.2.3 [ME55] <sup>2</sup>            | HVAC equipment efficiency verified.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <i>See the Mechanical Systems list for values.</i>                             |
| C403.2.6 [ME59] <sup>1</sup>            | Natural or mechanical ventilation is provided in accordance with Florida Building Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per Florida Building Code Chapter 4.                                     | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.   |
| C403.2.6.1 [ME59] <sup>1</sup>          | Demand control ventilation provided for spaces $>500$ ft <sup>2</sup> and $>25$ people/1000 ft <sup>2</sup> occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow $>3,000$ cfm. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply.                                  |
| C403.2.6.2 [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.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply.                                  |
| C403.2.4.8 [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 C403.2.4.8.1 and C403.2.4.8.2).                     | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply.                                  |
| C403.2.7 [ME57] <sup>1</sup>            | Exhaust air energy recovery on systems meeting Table C403.2.7(1) and C403.2.7(2).  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply.                                  |
| C403.2.8 [ME116] <sup>3</sup>           | Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply.                                  |

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                          |
|---|--|--|---|
| C403.2.9.1, C403.2.9.2 [ME60] <sup>2</sup>      | HVAC ducts and plenums insulated in accordance with C403.2.9.1 and constructed in accordance with C403.2.9.2, verification may need to occur during Foundation Inspection.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> 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.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> 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.. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply. |

**Additional Comments/Assumptions:**

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

| Section # & Req.ID                                      | Rough-In Electrical Inspection   | Complies?  | Comments/Assumptions                          |
|---|--|--|---|
| C405.2.2.2<br>[EL22] <sup>1</sup>                       | Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern $\geq 50$ percent.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |
| C405.2.1, C405.2.1.1<br>[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 $\leq 300$ 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.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply. |
| C405.2.1.2<br>[EL19] <sup>1</sup>                       | Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |
| C405.2.1.3<br>[EL20] <sup>1</sup>                       | Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces $\geq 300$ sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas $\leq 600$ 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 $\geq 80\%$ 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 or control zone general lighting only when occupancy for the same area is detected. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply. |
| C405.2.2, C405.2.2.1, C405.2.2.2<br>[EL21] <sup>2</sup> | Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |

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

| 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.                          | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Sidelit zones on first floor in Group A-2 and M occupancies. |
| C405.2.4 [EL26] <sup>1</sup>                         | Separate lighting control devices for specific uses installed per approved lighting plans. 1. Display and accent lighting, lighting in display cases, supplemental task lighting and lighting equipment for sale shall have occupancy sensor control. 2) Sleeping units shall have auto off controls.      | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.   |
| C405.2.5 [EL28] <sup>3</sup>                         | Manual lighting controls are in a location with ready access and where controlled lights are visible.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.   |
| C405.2.6 [EL30] <sup>3</sup>                         | Exterior lighting systems provided with controls complying with C405.2.6.1 through C405.2.6.4 for daylight shutoff and decorative lighting shutoff.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.   |
| 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<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply.                                  |
| 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<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><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<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply.                                  |
| C405.5.3 [EL29] <sup>2</sup>                         | Total voltage drop across the combination of feeders and branch circuits <= 5%.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><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) |
|---|----------------------|---|------------------------|---|---------------------|

| Section # & Req.ID                | Insulation Inspection  | Complies?  | Comments/Assumptions                                 |
|-----------------------------------|--|--|--|
| C402.2.1.1<br>[IN20] <sup>1</sup> | Insulation installed on a suspended ceiling having ceiling tiles is not being specified for roof/ceiling assemblies. Continuous insulation board installed in 2 or more layers with edge joints offset between layers. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply.        |
| C303.2<br>[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<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                             |
| C303.2<br>[IN7] <sup>1</sup>      | Above-grade wall insulation installed per manufacturer's instructions.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                             |
| C303.2.1<br>[IN14] <sup>2</sup>   | Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation Inspection.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                             |
| C104<br>[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<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <i>See the Envelope Assemblies table for values.</i> |
| C402.2.6<br>[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<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply.        |
| C402.3<br>[IN5] <sup>3</sup>      | High-albedo roofs satisfy one of the following: 3-year-aged solar reflectance $\geq 0.55$ and thermal emittance $\geq 0.75$ or 3-year-aged solar reflectance index $\geq 64.0$ .                                       | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                             |
| C104<br>[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.       | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <i>See the Envelope Assemblies table for values.</i> |
| C402.5.1.1<br>[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<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><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) |
|---|----------------------|---|------------------------|---|---------------------|

| Section # & Req.ID                                   | Final Inspection  | Complies?  | Comments/Assumptions  |
|--|---|--|---|
| C408.2.5.2<br>[FI17] <sup>3</sup>                    | Furnished O&M instructions for systems and equipment to the building owner or designated representative.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                                      |
| C402.5.6<br>[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<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                                      |
| C402.5.8<br>[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<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply.                 |
| C403.2.1<br>[FI50] <sup>3</sup>                      | HVAC systems and equipment design loads calculated in accordance with ANSI/ASHRAE/ACCA Standard 183 or by an approved equivalent computational procedure                                  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                                      |
| C403.2.2<br>[FI27] <sup>3</sup>                      | HVAC systems and equipment capacity does not exceed calculated loads.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                                      |
| C403.2.4.1<br>[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.                         | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                                      |
| C403.2.4.1.1<br>[FI42] <sup>3</sup>                  | Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply.                 |
| C403.2.4.1.2<br>[FI38] <sup>3</sup>                  | Thermostatic controls have a 5 °F deadband.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                                      |
| C403.2.4.1.3<br>[FI20] <sup>3</sup>                  | Temperature controls have setpoint overlap restrictions.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                                      |
| C403.2.4.2<br>[FI39] <sup>3</sup>                    | Each zone equipped with setback controls using automatic time clock or programmable control system.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                                      |
| C403.2.4.2.1,<br>C403.2.4.2.2<br>[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   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                                      |
| C405.3.2<br>[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. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <i>See the Interior Lighting fixture schedule for values.</i> |

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

| Section # & Req.ID             | Final Inspection  | Complies?  | Comments/Assumptions                                   |
|--------------------------------|---|--|--|
| C405.4.2 [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.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> 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, recommendations, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated. Regular maintenance actions shall be clearly stated on accessible label. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                               |
| C408.2.1 [FI28] <sup>1</sup>   | Commissioning plan developed by registered design professional or approved agency.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |  |
| C408.2.3.1 [FI31] <sup>1</sup> | HVAC equipment has been tested to ensure proper operation.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                               |
| C408.2.3.2 [FI10] <sup>1</sup> | HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                               |
| C408.2.4 [FI29] <sup>1</sup>   | Preliminary commissioning report completed and certified by registered design professional or approved agency.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |  |
| C408.2.5.1 [FI7] <sup>3</sup>  | Furnished HVAC as-built drawings submitted within 90 days of system acceptance.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                               |
| C408.2.5.3 [FI43] <sup>1</sup> | An air and/or hydronic system balancing report is provided for HVAC systems.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                               |
| C408.2.5.4 [FI30] <sup>1</sup> | Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |  |
| C408.3 [FI33] <sup>1</sup>     | Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><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) |
|---|----------------------|---|------------------------|---|---------------------|