



# COMcheck Software Version COMcheckWeb Envelope Compliance Certificate

## Project Information

Energy Code: 2021 IECC  
 Project Title: Ray Horvath Office Warehouse  
 Location: Slidell, Louisiana  
 Climate Zone: 2a  
 Project Type: New Construction  
 Permit No. 985-781-7999

Construction Site:  
 1860 Shortcut Hwy 190  
 Slidell, Louisiana 70458

Owner/Agent:  
 Ray Horvath  
 Floorworks and Blinds  
 1860 Shortcut Hwy 190  
 Slidell, Louisiana 70458  
 985-781-7999  
 rhorvath4@gmail.com

Designer/Contractor:  
 Charles Dammon  
 Dammon Engineering  
 554 Old Spanish Trail  
 Slidell, Louisiana 70458  
 9856495832  
 chuck@dammonengineering.com

## Additional Efficiency Package(s)

Credits: 10.0 Required 86.0 Proposed  
 5% heating efficiency improvement, 0.0 credit  
 5% cooling efficiency improvement, 4.0 credit  
 Efficient fossil fuel water heater, 0.0 credit  
 Reduced lighting power, 82.0 credit

## Building Area

## Floor Area

|   |      |
|---|------|
| 1-Office Warehouse (Warehouse) : Nonresidential | 1324 |
|---|------|

## 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: Metal Building, Standing Seam, Single Insulation Layer with Thermal Blocks (b), High Albedo Roof Exemption = Roof Over Conditioned Space With No Cooling, [Bldg. Use 1 - Office Warehouse] | 1324                          | 19.0              | 19.0             | 0.032                | 0.035                              |
| <u>NORTH</u><br>Ext. Wall: Metal Building Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Office Warehouse]  | 176                           | 19.0              | 19.0             | 0.039                | 0.079                              |
| <u>SOUTH</u><br>Ext. Wall: Metal Building Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Office Warehouse]  | 176                           | 19.0              | 19.0             | 0.039                | 0.079                              |
| <u>WEST</u><br>Ext. Wall: Metal Building Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Office Warehouse]   | 416                           | 19.0              | 19.0             | 0.039                | 0.079                              |

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

(b) Thermal spacer block with minimum R-3.5 must be installed above the purlin/batt, and the roof deck secured to the purlins.

## 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 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Chuck Dammon  
Name - Title

*Chuck Dammon*  
Signature

*02-08-26*  
Date

This is a new office/warehouse addition



# Interior Lighting Compliance Certificate

## Project Information

Energy Code: 2021 IECC  
 Project Title: Ray Horvath Office Warehouse  
 Project Type: New Construction  
 Permit No. 985-781-7999

Construction Site:  
 1860 Shortcut Hwy 190  
 Slidell, Louisiana 70458

Owner/Agent:  
 Ray Horvath  
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 554 Old Spanish Trail  
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 chuck@dammonengineering.com

## Additional Efficiency Package(s)

Credits: 10.0 Required 86.0 Proposed  
 5% heating efficiency improvement, 0.0 credit  
 5% cooling efficiency improvement, 4.0 credit  
 Efficient fossil fuel water heater, 0.0 credit  
 Reduced lighting power, 82.0 credit

## 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-Office Warehouse (Warehouse) | 1324                                  | 0.45                                    | 596                |
| Total Allowed Watts =          |                                       |   | 596                |

## 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-Office Warehouse (Warehouse)<br>LED: LED MR 2W:                 | 1                      | 10                   | 5                     | 50           |
| Total Proposed Watts =  |                        |                      |                       | 50           |

**Interior Lighting PASSES: Design 92% 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 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

David Dammon  
 Name - Title

*Chuck Dammon*  
 Signature

*02-08-26*  
 Date



# Exterior Lighting Compliance Certificate

## Project Information

Energy Code: 2021 IECC  
 Project Title: Ray Horvath Office Warehouse  
 Project Type: New Construction  
 Permit No. 985-781-7999  
 Exterior Lighting Zone 2 (Neighborhood business district (LZ2))

Construction Site:  
 1860 Shortcut Hwy 190  
 Slidell, Louisiana 70458

Owner/Agent:  
 Ray Horvath  
 Floorworks and Blinds  
 1860 Shortcut Hwy 190  
 Slidell, Louisiana 70458  
 985-781-7999  
 rhorvath4@gmail.com

Designer/Contractor:  
 Charles Dammon  
 Dammon Engineering  
 554 Old Spanish Trail  
 Slidell, Louisiana 70458  
 9856495832  
 chuck@dammonengineering.com

## 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) |
|--|---------------|-------------------------|--------------------------|-------------------------------|
| Special feature area                   | 2 ft2         | 0.1                     | Yes                      | 0                             |
| Total Tradable Watts (a) =             |               |                         |                          | 0                             |
| Total Allowed Watts =                  |               |                         |                          | 0                             |
| 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>Special feature area (2 ft2): Tradable Wattage</u>             |                        |                      |                       |              |
| LED: LED MR 2W:   | 1                      | 2                    | 3                     | 6            |
| Total Tradable Proposed Watts =                                   |                        |                      |                       | 6            |

**Exterior Lighting PASSES: Design 99% 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 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

David Dammon  
Name - Title

*Chuck Dammon*  
Signature

*02-08-26*  
Date



# COMcheck Software Version COMcheckWeb Mechanical Compliance Certificate

## Project Information

Energy Code: 2021 IECC  
Project Title: Ray Horvath Office Warehouse  
Location: Slidell, Louisiana  
Climate Zone: 2a  
Project Type: New Construction  
Permit No. 985-781-7999

Construction Site:  
1860 Shortcut Hwy 190  
Slidell, Louisiana 70458

Owner/Agent:  
Ray Horvath  
Floorworks and Blinds  
1860 Shortcut Hwy 190  
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985-781-7999  
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Designer/Contractor:  
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## Additional Efficiency Package(s)

Credits: 10.0 Required 86.0 Proposed  
5% heating efficiency improvement, 0.0 credit  
5% cooling efficiency improvement, 4.0 credit  
Efficient fossil fuel water heater, 0.0 credit  
Reduced lighting power, 82.0 credit

## Mechanical Systems List

### Quantity System Type & Description

- |   |   |
|---|---|
| 1 | HVAC System (Single Zone w/ PerimeterSystem):<br>Heating: 1 each - Unit Heater, Electric, Capacity = 5 kBtu/h<br>No minimum efficiency requirement applies<br>Cooling: 1 each - Room AC With Louvered Sides, Capacity = 1 kBtu/h, Air-Cooled Condenser, Unknown Economizer<br>Proposed Efficiency = 15.00 CEER, Required Efficiency = 11.00 CEER<br>Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 |
|---|---|

## 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 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

David Dammon  
Name - Title

*Chuck Dammon*  
Signature

*02-08-26*  
Date



# Inspection Checklist

Energy Code: 2021 IECC

Requirements: 0.0% 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 |                      |
| C103.2 [PR2] <sup>1</sup>    | Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical and service water heating systems and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks. Hot water system sized per manufacturer's sizing guide.                        | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> 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. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> 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. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| 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 |                      |
| 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 |                      |

|   |                      |   |                        |   |                     |
|---|----------------------|---|------------------------|---|---------------------|
| 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. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> 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.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |

**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 |                      |

**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 |
|------------------------------|---|--|----------------------|
| 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 |                      |

**Additional Comments/Assumptions:**

|                        |                          |                       |
|------------------------|--------------------------|-----------------------|
| 1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low 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. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |

**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 |   |
| C403.12.3 [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.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |   |
| C403.8.1 [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 | See the Mechanical Systems list for values. |
| C403.8.3 [ME117] <sup>2</sup> | Fans have a fan energy index (FEI) $\geq$ 1.00. Variable volume fans will 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 |   |
| C403.9 [ME144] <sup>2</sup>   | Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |   |
| C403.13.1 [ME71] <sup>2</sup> | Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |   |
| C403.3 [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 | See the Mechanical Systems list for values. |
| 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.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |   |
| C403.7.1 [ME59] <sup>1</sup>  | Demand control ventilation provided for spaces $>500$ ft <sup>2</sup> and $>15$ 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 |   |
| 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.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> 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).                         | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |   |

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 |
|--|--|--|----------------------|
| C403.7.4 [ME57] <sup>1</sup>                             | Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| C403.7.5 [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 |                      |
| C403.12.1, C403.12.2 [ME60] <sup>2</sup>                 | HVAC ducts and plenums insulated in accordance with C403.11.1 and constructed in accordance with C403.11.2, 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 |                      |
| 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. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| 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 |                      |
| C403.11.3, C403.11.3.1, C403.11.3.2 [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 C403.11.3.1 and refrigeration compressor systems that comply with C403.11.3.2..                 | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |

**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 |
|---|---|--|----------------------|
| C405.2.3.1<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 |                      |
| 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, corridors, 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 |                      |
| C405.2.1.2<br>[EL19] <sup>1</sup>           | Occupancy sensors control function in warehouses: In warehouses, the lighting in aiseways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of 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. Lights not turned off by occupant sensors is done so by time-switch.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| 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) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) 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. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| C405.2.2, C405.2.2.1<br>[EL21] <sup>2</sup> | Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |

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 |
|--|--|--|----------------------|
| C405.2.4, C405.2.4.1, C405.2.4.2 [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 |                      |
| C405.2.5 [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.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| C405.2.7 [EL28] <sup>1</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%.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| C405.7 [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 |                      |
| C405.8 [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 |                      |
| C405.9.1, C405.9.2 [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 |                      |
| C405.10 [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 |                      |
| C405.1.1 [EL30] <sup>2</sup>                         | At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| C405.11, C405.11.1 [EL31] <sup>2</sup>               | 50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |

**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                          |
|-------------------------------|--|--|---|
| C303.1 [IN3] <sup>1</sup>     | Roof insulation installed per manufacturer's instructions and is labeled with R-value or insulation certificate providing R-value and other relevant data. Blown or poured loose-fill insulation is installed only where the roof slope is $\leq 3$ in 12.                                     | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |   |
| C402.2.1 [IN20] <sup>1</sup>  | Roof assembly meets minimal thermal resistance installed between roof framing or in a continuous fashion on the roof assembly as stipulated in Table C402.1.3. Requirements for above deck insulation, minimum thickness, suspended ceilings, staggered joints and skylight curbs will be met. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |   |
| C303.2 [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 |   |
| C105 [IN6] <sup>1</sup>       | Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.   | <input type="checkbox"/> Complies<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. |
| C402.2.6 [IN18] <sup>3</sup>  | Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |   |
| C402.3 [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 |   |
| 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.   | <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. |
| C402.5.1.1 [IN1] <sup>1</sup> | All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |   |

**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                                   |
|--|---|--|--|
| 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.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> 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.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |  |
| C401.3 [FI58] <sup>1</sup>                 | A thermal envelope certificate will be supplied and completed by an approved third party.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |  |
| C402.5.10 [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 |  |
| C403.1.1 [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 |  |
| C403.3.1 [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 |  |
| C403.4.1 [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. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |  |
| C403.4.1.2 [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 |  |
| C403.4.1.3 [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 |  |
| C403.4.2 [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 |  |
| C403.4.2.1, C403.4.2.2 [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   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |  |
| 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.    | <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. |

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

| Section # & Req.ID             | Final Inspection  | Complies?  | Comments/Assumptions |
|--------------------------------|---|--|----------------------|
| C406.2.1 [FI66] <sup>1</sup>   | 5% heating efficiency improvement - all HVAC and Plant heating equipment is 5% more efficient than required by 2021 IECC.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| C406.2.2 [FI66] <sup>1</sup>   | 5% cooling efficiency improvement - all HVAC and Plant cooling equipment is 5% more efficient than required by 2021 IECC.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| C406.3 [FI67] <sup>1</sup>     | Reduced lighting power - this credit specifies that the connected lighting power is >= 10% more efficient than 2021 IECC requirements.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| C406.7.3 [FI53] <sup>1</sup>   | Reduced energy use in service water heating - the hot water heating system shall have a capacity weighted average fossil fuel water heating efficiency at least 95 thermal efficiency or 0.95 EF.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| C408.1.1 [FI57] <sup>1</sup>   | Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| 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, systems and system-to-system relationships have 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 |                      |
| C408.2.3.2 [FI10] <sup>1</sup> | HVAC and service water heating 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 |                      |
| 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 [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 |                      |
| C408.2.5 [FI16] <sup>3</sup>   | Furnished as-built drawings for electric power systems 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 |                      |
| C408.2.5.1 [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 |                      |

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>[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<br>[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 |                      |

**Additional Comments/Assumptions:**

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