

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 (P14)	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.	<div><input type="checkbox"/> Complies</div> <div><input type="checkbox"/> Does Not</div> <div><input type="checkbox"/> Not Observable</div> <div><input type="checkbox"/> Not Applicable</div>	Requirement will be met. Location on plans/spec: SEE NOTE ON SHEET
C103.2 (P18)	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.	<div><input type="checkbox"/> Complies</div> <div><input type="checkbox"/> Does Not</div> <div><input type="checkbox"/> Not Observable</div> <div><input type="checkbox"/> Not Applicable</div>	Requirement will be met. Location on plans/spec: SEE NOTE ON SHEET
C406 (P19)	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<div><input type="checkbox"/> Complies</div> <div><input type="checkbox"/> Does Not</div> <div><input type="checkbox"/> Not Observable</div> <div><input type="checkbox"/> Not Applicable</div>	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1)

2 Medium Impact (Tier 2)

3 Low Impact (Tier 3)

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Data filename: 03/20/24
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Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Mircon B42
Project Type: New Construction
Exterior Lighting Zone: 2 (Light industrial area with limited nighttime use (L22))

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Exterior Lighting Power

Area/Surface Category	A	B	C	D	E
	Quantity	Allowed Watts /	Tradable Wattage	Allowed Watts (B X C)	
Walkway < 10 feet wide	100 Rf of	0.5	Yes	50	
			Total Tradable Watts (a) =	50	
			Total Allowed Supplemental Watts (b) =	400	
				Total Allowed Watts =	450

(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

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	A	B	C	D	E
	Lamp/ Fixture	Wattage	Fixture Watt.		
Walkway < 10 feet wide (100 Rf of walkway length): Tradable Wattage	1	1	28	28	
LED: S1, POLI LIGHT: Other:					
			Total Tradable Proposed Watts =	28	

Exterior Lighting PASS/ES: Design 94% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Tim Quiring
Name - Title Signature Date 03/20/24

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Exterior Lighting Compliance Certificate

Section & Req.ID

Final Inspection

Complies?

Comments/Assumptions

C403.3, C408.2.5, (F117)

Furnished O&M instructions for systems and equipment to the building owner or designated representative.

☐ Complies

☐ Does Not

☐ Not Observable

☐ Not Applicable

Requirement will be met.

C405.4.1 (F118)

Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.

☐ Complies

☐ Does Not

☐ Not Observable

☐ Not Applicable

See the Interior Lighting fixture schedule for values.

C405.5.1 (F119)

Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.

☐ Complies

☐ Does Not

☐ Not Observable

☐ Not Applicable

See the Exterior Lighting fixture schedule for values.

C408.1.1 (F121)

Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.

☐ Complies

☐ Does Not

☐ Not Observable

☐ Not Applicable

Requirement will be met.

C408.2.5 (F116)

Furnished as-built drawings for electric power systems within 90 days of system acceptance.

☐ Complies

☐ Does Not

☐ Not Observable

☐ Not Applicable

Requirement will be met.

C408.3 (F133)

Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.

☐ Complies

☐ Does Not

☐ Not Observable

☐ Not Applicable

Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1)

2 Medium Impact (Tier 2)

3 Low Impact (Tier 3)

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Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Mircon B42
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)

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

Allowed Interior Lighting Power

Area Category	B	C	D	E
	Floor Area (R2)	Allowed Watts /R2	Allowed Watts	
1-BUILDING INTERIOR (Office)	503607	0.71	358065	
			Total Allowed Watts =	358065

Proposed Interior Lighting Power

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B	C	D	E
	Lamps/ Fixture	# of Fixture	Fixture Watt.	(C X D)
1-BUILDING INTERIOR (Office)	1	1	48	48
LED: E3, 4' LINEAR, Other:				
			Total Proposed Watts =	48

Interior Lighting PASS/ES: Design 100% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Tim Quiring
Name - Title Signature Date 03/20/24

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Interior Lighting Compliance Certificate

Section & Req.ID

Rough-In Electrical Inspection

Complies?

Comments/Assumptions

C405.2.3, C405.2.3, C405.2.3, (EL21P)

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 Shutoff zone.

☐ Complies

☐ Does Not

☐ Not Observable

☐ Not Applicable

Requirement will be met.

C405.2.4 (EL20P)

Separate lighting control devices for specific uses installed per approved lighting plans.

☐ Complies

☐ Does Not

☐ Not Observable

☐ Not Applicable

Requirement will be met.

C405.2.4 (EL27P)

Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.

☐ Complies

☐ Does Not

☐ Not Observable

☐ Not Applicable

Requirement will be met.

C405.2.5 (EL28P)

Manual controls required by the energy code are in a location with ready access to occupants and located where the controlled lights are visible, or identify the area served and their status.

☐ Complies

☐ Does Not

☐ Not Observable

☐ Not Applicable

Exception: Requirement does not apply.

C405.2.6 (EL30P)

Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.

☐ Complies

☐ Does Not

☐ Not Observable

☐ Not Applicable

Requirement will be met.

C405.3 (EL4)

Exit signs do not exceed 5 watts per foot.

☐ Complies

☐ Does Not

☐ Not Observable

☐ Not Applicable

Requirement will be met.

C405.6 (EL26P)

Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.

☐ Complies

☐ Does Not

☐ Not Observable

☐ Not Applicable

Requirement will be met.

C405.7 (EL27P)

Electric motor meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).

☐ Complies

☐ Does Not

☐ Not Observable

☐ Not Applicable

Requirement will be met.

C405.8.2 (EL18P)

Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.

☐ Complies

☐ Does Not

☐ Not Observable

☐ Not Applicable

Requirement will be met.

C405.9 (EL29P)

Total voltage drop across the combination of feeders and branch circuits <= 5%.

☐ Complies

☐ Does Not

☐ Not Observable

☐ Not Applicable

Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1)

2 Medium Impact (Tier 2)

3 Low Impact (Tier 3)

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Envelope Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Mircon B42
Location: Boise, Idaho
Climate Zone: 5b
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)

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

1-BUILDING INTERIOR (Office) : Nonresidential

Envelope Assemblies

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

Envelope TBD: Air Barrier Option must be specified (see Project screen)

REFER TO ARCHITECTURAL G SHEETS FOR BUILDING ENVELOPE COMPLIANCE FORMS. THE PROJECT IS COMPLYING WITH THE ENERGY CODE VIA THE PERFORMANCE METHOD. THE PERFORMANCE METHOD INCLUDES ENVELOPE, INTERIOR LIGHTING, EXTERIOR LIGHTING AND MECHANICAL.

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Interior Lighting Compliance Certificate

Section & Req.ID

Rough-In Electrical Inspection

Complies?

Comments/Assumptions

C405.2.2, (EL21P)

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 >= 50 percent.

☐ Complies

☐ Does Not

☐ Not Observable

☐ Not Applicable

Requirement will be met.

C405.2.1, (EL18P)

Occupancy sensors installed in classrooms/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.

☐ Complies

☐ Does Not

☐ Not Observable

☐ Not Applicable

Requirement will be met.

C405.2.1, (EL19P)

Occupancy sensors control function in warehouses, in warehouses, the lighting in aislesways 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.

☐ Complies

☐ Does Not

☐ Not Observable

☐ Not Applicable

Exception: Requirement does not apply.

C405.2.1, (EL20P)

Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight-responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.

☐ Complies

☐ Does Not

☐ Not Observable

☐ Not Applicable

Requirement will be met.

C405.2.2, (EL21P)

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.

☐ Complies

☐ Does Not

☐ Not Observable

☐ Not Applicable

Exception: Lighting that is related to means of egress in aislesways, ramps, corridors, or emergency routes.
Location on plans/spec: SEE NOTE ON SHEET

1 High Impact (Tier 1)

2 Medium Impact (Tier 2)

3 Low Impact (Tier 3)

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PAE

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LUMA

Lumald.com

△	Date	Description
1	03/29/2024	Issue for Permit
1	10/11/2024	ISSUE FOR CONSTRUCTION

Seal / Signature

Project Name

MICRON BUILDING B42

Project Number

22-1717

Description

ENERGY CODE FORMS - ELECTRICAL

Scale

E0.101

City of Boise Stamps

10/10/2024 8:44:21 AM Autodesk Docs: Mircon-HQ Campus 2022PHS-SIG-E-MAIN-XXXX.ctb

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