COMcheck Software Version COMcheckWeb Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
Project Title: SW Park Ave Apartments

Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Apartment Building (Multifamily)	13816	0.45	6217
	To	tal Allowed Watts =	6217

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Apartment Building (Multifamily)				
LED: A1: 4FT IND. STRIP: LED Linear 20W:	1	41	20	820
LED: A2: 4FT LINEAR LIGHT: LED Panel 33W:	1	46	31	1426
LED: A3: 4FT LINEAR LIGHT: LED Linear 22W:	1	24	24	576
LED: C1: 4.5" DIA DOWNLIGHT: LED MR 10W:	1	124	10	1240
LED: C2: 3" DIA DOWNLIGHT: LED MR 10W:	1	22	10	220
	Tot	al Propose	d Watts =	4282

Interior Lighting PASSES: Design 31% 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 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Denise Taylor, Electrical Designer	Denise Taylor	04.08.2022
Name - Title	Signature	Date

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COMcheck Software Version COMcheckWeb Exterior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
Project Title: SW Park Ave Apartments

Project Type: New Construction

Exterior Lighting Zone 2 (Residential mixed use area (LZ2))

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
MAIN ENTRANCE (Entry canopy)	500 ft2	0.25	Yes	125
BLDG FACADE (Illuminated length of facade wall or surface)	186 ft	2.5	No	465
COURTYARD (Plaza area)	738 ft2	0.1	Yes	74
ROOF DECK (Plaza area)	738 ft2	0.1	Yes	74
		Total Tradabl	e Watts (a) =	273
		Total Allo	wed Watts =	738
	Total Allowed	d Supplementa	l Watts (b) =	400

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

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture		(C X D)
MAIN ENTRANCE (Entry canopy, 500 ft2): Tradable Wattage LED: B3: EXT. CYLINDER LIGHT: LED Panel 33W: LED: B4: EXT. LINEAR LIGHT: LED Linear 33W:	1 1	2 6	10 31	20 186
BLDG FACADE (Illuminated length of facade wall or surface, 186 ft): Non-tra LED: B1: EXT SCONCE: LED PAR 12W:	adable Watt 1	<u>age</u> 8	12	96
COURTYARD (Plaza area, 738 ft2): Tradable Wattage LED: B5: LV LANDSCAPE LTS: LED PAR 20W:	1	5	20	100
ROOF DECK (Plaza area, 738 ft2): Tradable Wattage LED: B2: WALL PACK: LED Other Fixture Unit 25W:	1 Total Tradab	7 ole Propose	24 ed Watts =	168 474

Exterior Lighting PASSES: Design 30% 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 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

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⁽b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Denise Taylor, Electrical Designer Name - Title

Denise Taylor

Signature

 $\frac{04.08.2022}{\text{Date}}$

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COMcheck Software Version COMcheckWeb Inspection Checklist Energy Code: 90.1 (2019) Standard

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
4.2.2, 9.4.3, 9.7 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☑Complies □Does Not □Not Observable □Not Applicable	
9.7 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☑Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

	1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
9.4.1.1 [EL1] ²	prescribed in Table 9.6.1, for the appropriate space type, are installed.	□Complies □Does Not □Not Observable	
	Mandatory lighting controls (labeled as 'REQ') and optional choice controls (labeled as 'ADD1' and 'ADD2') are implemented.	□Not Applicable	
9.4.1.1a [EL2] ²		XComplies □Does Not	
	visible to occupants.	□Not Observable □Not Applicable	
9.4.1.1b [EL26] ²	turned on - restriced to manual.	□Complies □Does Not	
		□Not Observable Not Applicable	
9.4.1.1c [EL27] ²	shall be allowed to be automatically	Complies Does Not	
		□Not Observable □Not Applicable	
9.4.1.1d [EL28] ²		Complies Does Not	
	full on.	□Not Observable □Not Applicable	
9.4.1.1e [EL29] ²	EL29] ² controls for sidelighting >= 150 watts	□Complies □Does Not	
		□Not Observable Not Applicable	
9.4.1.1f [EL30] ²	Automatic daylight responsive controls for toplighting >= 150 watts controlled by photocontrols.	□Complies □Does Not	
0.4.1.1		□Not Observable □Not Applicable	
9.4.1.1g [EL31] ²	Automatic partial OFF: lighting shall be reduced >= 50% within 20 minutes of zero occupancy.		
0.4.7.71		□Not Observable □Not Applicable	
9.4.1.1h [EL32] ²	shut off within 20 minutes of zero	□Complies □Does Not	
0.411:		□Not Observable □Not Applicable □C	
9.4.1.1i [EL33] ²	Scheduled shutoff: all lighting shall be shut off when scheduled to be unoccupied.	□Complies □Does Not	
		□Not Observable □Not Applicable	
9.4.1.3 [EL4] ¹	specific uses installed per approved	Complies Does Not	
		□Not Observable □Not Applicable	
9.4.1.4 [EL3] ²		□Does Not	
		□Not Observable □Not Applicable	

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

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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
9.6.2 [EL8] ¹	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	

Additional Comments/Assumptions:

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

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
8.7.1 [FI16] ³	[FI16] ³ electric power systems within 30 days		
of system acceptance.	□Not Observable □Not Applicable		
8.7.2 [FI17] ³	Furnished O&M instructions for systems and equipment to the		
building owner or designated representative.	□Not Observable □Not Applicable		
9.2.2.3 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what	Complies Does Not	See the Interior Lighting fixture schedule for values.
is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Not Observable □Not Applicable		
9.4.2 [FI19] ¹	Exterior lighting power is consistent with what is shown on the approved		See the Exterior Lighting fixture schedule for values.
proposed watts a	proposed watts are less than or edual ::	□Not Observable □Not Applicable	
9.4.4 [FI20] ¹	At least 75% of all permanently installed lighting fixtures in dwelling	□Complies □Does Not	
	units have >= 55 lm/W efficacy or a >= 45 lm/W total luminaire efficacy.	□Not Observable ☑Not Applicable	

Additional Comments/Assumptions:

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

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