COM*check* Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Tudor Clubhouse
Project Type: New Construction

Construction Site:
Evren Apartments
Lee Summit, Missouri

Owner/Agent:
Ryan Adams
Cityscape Residential
8335 Keystone Crossing
Indianapolis, Indiana 46240
913-216-0124
radams@cityscaperesidential.com

Designer/Contractor:
Daren Claxton
Mitsch Design
200 S Rangeline Rd Ste 226
Carmel, Indiana 46032
317-573-2222
dclazton@mitschdesign.com

Additional Efficiency Package(s)

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

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Amenity Space (Office)	8963	0.71	6373
		Total Allowed Watts =	6373

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-Amenity Space (Office)				
2x2 Panel: Other:	2	12	32	384
A: Other:	1	183	16	2928
A-1 (CB): Other:	1	7	16	112
L-1: Other:	1	4	120	480
L-2: Other:	2	3	30	90
L-3: Other:	1	3	32	96
L-4: Other:	1	2	15	30
L-5: Other:	3	2	27	54
L-6: Other:	1	3	45	135
L-7: Other:	1	3	40	120
SC-1: Other:	1	3	12	37
SC-2: Other:	1	8	45	360
SC-3: Other:	1	3	10	31
LED STRIP LIGHTING: Other:	1	153	3	459
			Total Proposed Watts =	5316

Interior Lighting PASSES: Design 17% 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 COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Connor Gannaway P.E.	Connor Gannaway	6/12/2024
Name - Title	Signature	Date

COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	Tudor Clubhouse
Location:	Lees Summit, Missouri
Climate Zone:	4a
Project Type:	New Construction

Construction Site:
Evren Apartments
Lee Summit, Missouri

Owner/Agent:
Ryan Adams
Cityscape Residential
8335 Keystone Crossing
Indianapolis, Indiana 46240
913-216-0124
radams@cityscaperesidential.com

Designer/Contractor:
Daren Claxton
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317-573-2222
dclazton@mitschdesign.com

Additional Efficiency Package(s)

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

Mechanical Systems List

Quantity **System Type & Description**

3 CL1, CL2, CL3 (Single Zone w/ PerimeterSystem):
Heating: 1 each - Unit Heater, Electric, Capacity = 51 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Split System, Capacity = 57 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: None
Proposed Efficiency = 14.00 SEER, Required Efficiency = 13.00 SEER
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: 5 TON FAN -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
5 TON FAN Supply, Constant Volume, 1990 CFM, 0.8 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP
SYSTEM COMPLIANCE FAILS: Economizer requirements have not been met.

1 DSS-C (Single Zone w/ PerimeterSystem):
Heating: 1 each - Unit Heater, Electric, Capacity = 21 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Split System, Capacity = 18 kBtu/h, Air-Cooled Condenser, Unknown Economizer
Proposed Efficiency = 19.00 SEER, Required Efficiency = 13.00 SEER
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: 1.5 TON FAN -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
1.5 TON DSS FAN Supply, Constant Volume, 540 CFM, 0.1 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP

1 EUH-A (Unknown w/ PerimeterSystem):
Heating: 1 each - Unit Heater, Electric, Capacity = 10 kBtu/h
No minimum efficiency requirement applies
Fan System: EUH-A -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
EUH-A Supply, Constant Volume, 100 CFM, 0.1 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP

1 EUH-B (Unknown w/ PerimeterSystem):
Heating: 1 each - Unit Heater, Electric, Capacity = 8 kBtu/h
No minimum efficiency requirement applies

Quantity	System Type & Description
	Fan System: EUH-B -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: EUH-B Supply, Constant Volume, 270 CFM, 0.1 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP
1	WH-CL1: Electric Storage Water Heater, Capacity: 10 gallons No minimum efficiency requirement applies
1	WH-CL2: Electric Storage Water Heater, Capacity: 38 gallons No minimum efficiency requirement applies

Mechanical Compliance Statement

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

Connor Gannaway P.E.	Connor Gannaway	6/12/2024
Name - Title	Signature	Date