



Envelope Compliance Certificate

REVIEWED FOR COMPLIANCE WITH THE CITY CODE, ADOPTED BUILDING CODES, ZONING ORDINANCE AND DESIGN STANDARDS. THIS REVIEW AND APPROVAL DOES NOT RELIEVE THE DEVELOPER OR HIS AGENTS OF ANY RESPONSIBILITY FOR COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS, OR ADDRESS OR OVERRULE THE REQUIREMENTS OF OTHER JURISDICTIONS OR AGENCIES, UNLESS SPECIFICALLY NOTED OTHERWISE.

Project Information

Energy Code: 90.1 (2007) Standard
 Project Title: Springfield, MO
 Location: Springfield, Missouri
 Climate Zone: 4a
 Project Type: New Construction
 Vertical Glazing / Wall Area: 19%

Kerwin R. Perin

04/25/23

SIGNATURE

DATE

Construction Site:
 3720 W SUNSHINE ST
 SPRINGFIELD, MO 65807

Owner/Agent:
 Amy Switzer
 McDonald's Nashville Field Office
 110 N Carpenter St
 Chicago, IL 60607
 913-660-2205
 Amy.Switzer@us.mcd.com

Designer/Contractor:
 Bob Kempkes
 Taylor/Kempkes Architects
 210 Central Ave.
 Suite 3A
 Hot Springs, AR 71901
 501-624-5679
 bob@taylorkempkes.com

PRJ202300032

Building Area

Floor Area

1-Dining: Cafeteria/Fast Food : Nonresidential	4303
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Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor ^(a)
Roof 1: Insulation Entirely Above Deck, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	5218	---	25.0	0.039	0.048
Floor 1: Slab-On-Grade:Unheated, Horizontal with vertical 2 ft., [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (c)	283	---	10.0	0.700	0.700
<u>NORTH</u>					
Exterior Wall 4: Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	528	19.0	10.0	0.038	0.089
Window 4: Metal Frame, Perf. Specs.: Product ID N/A, SHGC 0.40, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	10	---	---	0.800	0.550
Door 3: Insulated Metal, Swinging, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	23	---	---	0.340	0.700
<u>EAST</u>					
Exterior Wall 2: Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	1192	19.0	10.0	0.038	0.089
Window 2: Metal Frame, Perf. Specs.: Product ID N/A, SHGC 0.40, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	280	---	---	0.800	0.550
Door 2: Insulated Metal, Swinging, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	85	---	---	0.340	0.700
<u>SOUTH</u>					
Exterior Wall 1: Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	528	19.0	10.0	0.038	0.089
Window 1: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID N/A, SHGC 0.40, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	276	---	---	0.800	0.500

Assembly

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Door 1: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf.
Specs.: Product ID N/A, SHGC 0.40, [Bldg. Use 1 - Dining:
Cafeteria/Fast Food] (b)

Gross Area Capacity Cont Proposed Budget U-
or R-Value R-Value U-Factor Factor(a)
Perimeter

22 --- --- 0.800 0.850

WEST

Exterior Wall 3: Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining:
Cafeteria/Fast Food]

Window 3: Metal Frame with Thermal Break, Perf. Specs.: Product ID
N/A, SHGC 0.40, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)

60 --- --- 0.800 0.550

- (a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
- (b) Fenestration product performance must be certified in accordance with NFRC and requires reporting documentation.
- (c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

04/25/23

Envelope PASSES: Design 4% better than code

SIGNATURE

DATE

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 90.1 (2007) Standard requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist

PRJ2023-00032

Robert Kempkes Architect Robert Kempkes 2.10.2023
Name - Title Signature Date



Mechanical Compliance Certificate

REVIEWED FOR COMPLIANCE WITH THE CITY CODE, ADOPTED BUILDING CODES, ZONING ORDINANCE AND DESIGN STANDARDS. THIS REVIEW AND APPROVAL DOES NOT RELIEVE THE DEVELOPER OR HIS AGENTS OF ANY RESPONSIBILITY FOR COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS, OR ADDRESS OR OVERRULE THE REQUIREMENTS OF OTHER JURISDICTIONS OR AGENCIES, UNLESS SPECIFICALLY NOTED OTHERWISE.

Project Information

Energy Code: 90.1 (2007) Standard
Project Title: Springfield, MO
Location: Springfield, Missouri
Climate Zone: 4a
Project Type: New Construction

Handwritten signature of Kevin R. Perin

04/25/23

Construction Site: 3720 W SUNSHINE ST SPRINGFIELD, MO 65807

Owner/Agent: Amy Switzer, McDonald's Nashville Field Office, 110 N Carpenter St, Chicago, IL 60607, 913-660-2205, Amy.Switzer@us.mcd.com

SIGNATURE

Designer/Contractor: Bob Kempkes, Taylor/Kempkes Architects, 210 Central Ave, Suite 3A, Hot Springs, AR 71901, 501-624-5679, bob@taylorkempkes.com

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Mechanical Systems List

Quantity System Type & Description

- 1 HVAC System 1 (RTU-1) (Single Zone): Heating: 1 each - Other, Gas, Capacity = 250 kBtu/h... Cooling: 1 each - Single Package DX Unit, Capacity = 258 kBtu/h... Fan System: FAN SYSTEM 1 | Kitchen -- Compliance (Motor nameplate HP method) : Passes
Fans: FAN 1 (RTU1) Supply, Constant Volume, 7200 CFM, 5.0 motor nameplate hp... FAN 2 (EF1) Exhaust, Constant Volume, 1350 CFM, 1.0 motor nameplate hp... FAN 3 (EF2) Exhaust, Constant Volume, 575 CFM, 1.0 motor nameplate hp... FAN 4 (EF3) Exhaust, Constant Volume, 480 CFM, 1.0 motor nameplate hp
1 HVAC System 2 (RTU-2) (Single Zone): Heating: 1 each - Other, Gas, Capacity = 60 kBtu/h... Cooling: 1 each - Single Package DX Unit, Capacity = 53 kBtu/h... Fan System: FAN SYSTEM 2 | Support Areas -- Compliance (Motor nameplate HP method) : Passes
Fans: FAN 5 (RTU2) Supply, Constant Volume, 1600 CFM, 0.8 motor nameplate hp... FAN 6 (TF1) Relief, Constant Volume, 100 CFM, 0.1 motor nameplate hp
1 HVAC System 3 (RTU-3) (Single Zone): Heating: 1 each - Other, Gas, Capacity = 250 kBtu/h... Cooling: 1 each - Single Package DX Unit, Capacity = 159 kBtu/h... Fan System: FAN SYSTEM 3 | Dining & Restrooms -- Compliance (Motor nameplate HP method) : Passes
Fans: FAN 7 (EF4) Exhaust, Constant Volume, 400 CFM, 0.3 motor nameplate hp... FAN 8 (EF5) Exhaust, Constant Volume, 75 CFM, 0.1 motor nameplate hp... FAN 9 (RTU3) Supply, Constant Volume, 4800 CFM, 3.0 motor nameplate hp

APPROVED

**FOR CONSTRUCTION BY THE CITY OF SPRINGFIELD, MO
BUILDING OFFICIAL**

Quantity System Type & Description

1 Water Heater 1 (WH-1):
Gas Storage Water Heater, Capacity: 100 gallons, Input Rating: 199 kBtu/h w/ Circulation Pump
Proposed Efficiency: 98.00 % Et, Required Efficiency: 80.00 % Et

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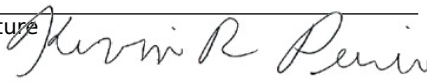
Mechanical Compliance Statement

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 90.1 (2007) Standard requirements in Jurisdiction of the City of Springfield, MO. All applicable mandatory requirements listed in the Inspection Checklist.

Name - Title

Signature

Date



04/25/23

SIGNATURE

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Interior Lighting Compliance Certificate

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 Taylor/Kempkes Architects
 210 Central Ave.
 Suite 3A
 Hot Springs, AR 71901
 501-624-5579
 bob@taylorkempkes.com

Kerwin R. P... (Signature) 04/25/23
 SIGNATURE DATE

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Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-Dining: Cafeteria/Fast Food	4303	1.40	6024
Total Allowed Watts =			6024

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
<u>1-Dining: Cafeteria/Fast Food</u>				
LED 1: L2R: 6" LED DOWNLIGHT: Other:	1	39	16	624
LED 2: F2: 2x4 LED LAY IN: Other:	3	30	44	1320
LED 4: F14A: LED PENDANT: Other:	2	3	8	24
LED 5: L2: LED PENDANT: Other:	1	11	14	154
LED 6: L4: LED DIRECTIONAL; DOWNLIGHT: Other:	1	9	7	63
Total Proposed Watts =				2185

Interior Lighting PASSES: Design 64% 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 (2007) Standard requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____



Exterior Lighting Compliance Certificate

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Project Information

Energy Code: 90.1 (2007) Standard
 Project Title: Springfield, MO
 Project Type: New Construction

Construction Site:
 3720 W SUNSHINE ST
 SPRINGFIELD, MO 65807

Owner/Agent: *Kerwin R. Perrin* Designer/Contractor: **04/25/23**
 Amy Switzer Bob Kempkes
 McDonald's Nashville Field Office Taylor/Kempkes Architects
 110 N Carpenter St 210 Central Ave. **SIGNATURE DATE**
 Chicago, IL 60607 Suite 3A
 913-660-2205 Hot Springs, AR 71901
 Amy.Switzer@us.mcd.com 501-624-5579
 bob@taylorkempkes.com

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Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
DT WINDOWS (Drive-up window)	3 window(s)	400	No	1200
FACADE (Illuminated area of wall or surface)	4302 ft2	0.2	No	860
CUSTOMER ENTRANCE (Main entry/exit)	6 ft of door	30	Yes	180
Total Tradable Watts (a) =				180
Total Allowed Watts =				2240
Total Allowed Supplemental Watts (b) =				112

- (a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
- (b) A supplemental allowance equal to 112 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
DT WINDOWS (Drive-up window 3 window(s)): Non-tradable Wattage				
LED 1: F12G: DOWNLIGHT: Other:	1	6	12	72
FACADE (Illuminated area of wall or surface 4302 ft2): Non-tradable Wattage				
LED 3: S1H/S1W: SCONCE: Other:	1	14	14	196
LED 4: SLED2-HE: ACCENT LIGHT: Other:	1	7	10	70
LED 5: SLED3-HE: ACCENT LIGHT: Other:	1	2	14	28
LED 6: SLED4-HE: ACCENT LIGHT: Other:	1	2	19	38
LED 7: FL1: FLOOD LIGHT: Other:	1	4	16	64
CUSTOMER ENTRANCE (Main entry/exit 6 ft of door width): Tradable Wattage				
LED 2: F12G: DOWNLIGHT: Other:	1	4	12	48
Total Tradable Proposed Watts =				48

Exterior Lighting PASSES: Design 84% better than code

BUILDING OFFICIAL

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. The proposed design is for a building that is not designed to meet the 90.1 (2007) Standard requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

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Name - Title

Signature

Date

Kerwin R. Perin

04/25/23

SIGNATURE

DATE

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