

Project Information

Energy Code: 2015 IECC

Project Title: 7 Brew La Crosse WI Project Type: New Construction

Construction Site: 4706 75th Street Kenosha, Wisconsin 53412

Owner/Agent: 7 Brew Coffee Wisconsin Designer/Contractor: National Modular MFG. LLC 8905 Industrial Drive Haven, Kansas 67543

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-Dining: Cafeteria/Fast Food	720	0.81	583
	Т	otal Allowed Watts =	583

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	_	D Fixture Watt.	(C X D)
1-Dining: Cafeteria/Fast Food				
LED: A: 2x4 flat Panel: LED Panel 40W:	1	8	39	311
LED: C: Enclosed utility light: LED A Lamp 9W:	1	2	10	20
	Tot	al Propose	d Watts =	331

Interior Lighting PASSES: Design 43% 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 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date



Texas Registered Firm No. F-7489 1255 West 15th Street, Suite 300 Plano, Texas 75075 469.467.0200 Email: mdengca@md-eng.com

Project Title: 7 Brew La Crosse WI Report date: 07/10/24

Data filename: Page 1 of 11

COMcheck Software Version COMcheckWeb Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC

Project Title: 7 Brew La Crosse WI Project Type: **New Construction**

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

Construction Site: 4706 75th Street Kenosha, Wisconsin 53412 Owner/Agent: 7 Brew Coffee Wisconsin

Designer/Contractor: National Modular MFG. LLC 8905 Industrial Drive Haven, Kansas 67543

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Canopy (Entry canopy)	948 ft2	0.25	Yes	237
		Total Tradable	e Watts (a) =	237
		Total Allo	wed Watts =	237
	Total Allowed	l Supplementa	al Watts (b) =	600

- (a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
- (b) A supplemental allowance equal to 600 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	B Lamps/ Fixture		D Fixture Watt.	(C X D)
Canopy (Entry canopy, 948 ft2): Tradable Wattage				
LED: LED PAR 10W:	1	38	10	380
	Total Tradab	ole Propose	ed Watts =	380

Exterior Lighting PASSES: Design 55% 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 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date



Texas Registered Firm No. F-7489 1255 West 15th Street, Suite 300 Plano, Texas 75075 469.467.0200

Email: mdengca@md-eng.com

Project Title: 7 Brew La Crosse WI Report date: 07/10/24 Data filename: 2 of 11 Page

COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code: 2015 IECC

Project Title: 7 Brew La Crosse WI Location: La Crosse, Wisconsin

Climate Zone: 6a

Project Type: New Construction

Construction Site: Owner/Agent: 4706 75th Street 7 Brew Coffee Kenosha, Wisconsin 53412 Wisconsin

Designer/Contractor: National Modular MFG. LLC 8905 Industrial Drive Haven, Kansas 67543

Additional Efficiency Package(s)

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

Mechanical Systems List

Quantity System Type & Description

1 HVAC System (Single Zone):

Heating: 1 each - Other, Electric, Capacity = 70 kBtu/h No minimum efficiency requirement applies

Cooling: 1 each - Split System, Capacity = 46 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception:

Proposed Efficiency = 14.00 SEER, Required Efficiency = 13.00 SEER Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00

1 Water Heater:

Electric Storage Water Heater, Capacity: 20 gallons

Proposed Efficiency: 1.65 SL, %/h (if > 12 kW), Required Efficiency: 1.65 SL, %/h (if > 12 kW)

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 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Michael Smith, P.E.	Muhil 0	07/11/2024
Name - Title	Signature	Date





Texas Registered Firm No. F-7489 1255 West 15th Street, Suite 300 Plano, Texas 75075 469.467.0200 Email: mdengca@md-eng.com

Project Title: 7 Brew La Crosse WI Report date: 07/10/24

Data filename: Page 3 of 11

COM*check* **Software Version COM***checkWeb*

Inspection Checklist

Energy Code: 2015 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 [PR2] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C103.2 [PR3] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C103.2 [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	Requirement will be met.
C103.2 [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	Requirement will be met.
C406 [PR9] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

MD ENGINEERING

Texas Registered Firm No. F-7489
1255 West 15th Street, Suite 300

Plano, Texas 75075 469.467.0200 Email: mdengca@md-eng.com

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

Project Title: 7 Brew La Crosse WI Report date: 07/10/24
Data filename: Page 4 of 11

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.2.4. 5, C403.2.4. 6 [FO9] ³	Snow/ice melting system sensors for future connection to controls. Freeze protection systems have automatic controls installed.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.



Texas Registered Firm No. F-7489 1255 West 15th Street, Suite 300 Plano, Texas 75075 469.467.0200 Email: mdengca@md-eng.com

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

Project Title: 7 Brew La Crosse WI Report date: 07/10/24

Data filename: Page 5 of 11

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6] ³	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C404.6.3 [PL7] ³	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C404.7 [PL8] ³	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.



Texas Registered Firm No. F-7489 1255 West 15th Street, Suite 300 Plano, Texas 75075 469.467.0200 Email: mdengca@md-eng.com

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

Project Title: 7 Brew La Crosse WI Report date: 07/10/24

Data filename: Page 6 of 11

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41] ³	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	□Complies □Does Not	Exception: Requirement does not apply.
		□Not Observable □Not Applicable	
C403.2.12 .1 [ME65] ³	conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. See the Mechanical Systems list for values.
.3		□Complies □Does Not	Requirement will be met.
[MEII7]-	of maximum total efficiency of the	□Not Observable □Not Applicable	
C403.2.13 [ME71] ²	Unenclosed spaces that are heated use only radiant heat.	□Complies □Does Not	Exception: Requirement does not apply.
		□Not Observable □Not Applicable	
C403.2.6. 1 [ME59] ¹	for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
2		☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
C403.2.7 [ME57] ¹	systems meeting Table C403.2.7(1)	□Complies □Does Not	Exception: Requirement does not apply.
		□Not Observable □Not Applicable	
C403.2.8 [ME116] ³	replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
C403.2.9 [ME60] ²	Where ducts or plenums are installed	□Complies □Does Not	Requirement will be met.
	need to occur dufing roundation	□Not Observable □Not Applicable	
C403.2.9 [ME10] ²		□Complies □Does Not	Requirement will be met.
		□Not Observable □Not Applicable	
1.3		□Complies □Does Not	Exception: Requirement does not apply.
[ME11] ³		□Not Observable □Not Applicable	
6	of individual zone boxes have static	□Complies □Does Not	Exception: Requirement does not apply.
[ME110] ³		□Not Observable □Not Applicable	See the Mechanical Systems list for values.

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

Project Title: 7 Brew La Crosse WI Report date: 07/10/24
Data filename: Page 7 of 11

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C408.2.2. 1 [ME53] ³	Air outlets and zone terminal devices have means for air balancing.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.5, C403.5.1, C403.5.2 [ME123] ³	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 C403.5.1 and refrigeration compressor systems that comply with C403.5.2	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.



Texas Registered Firm No. F-7489 1255 West 15th Street, Suite 300 Plano, Texas 75075 469.467.0200 Email: mdengca@md-eng.com

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

Project Title: 7 Brew La Crosse WI Report date: 07/10/24
Data filename: Page 8 of 11

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions	
C405.2.1 [EL15] ¹	Lighting controls installed to uniformly reduce the lighting load by at least	□Complies □Does Not	Exception: Lighting that is related to means of egress in stairways, ramps, corridors, or emergency routes.	
	50%.	□Not Observable □Not Applicable		
C405.2.1 [EL18] ¹	Occupancy sensors installed in required spaces.	\square Complies \square Does Not	Requirement will be met.	
		□Not Observable □Not Applicable		
C405.2.2.	per approved lighting plans and all	\square Complies \square Does Not	Requirement will be met.	
3 [EL23] ²	manual controls readily accessible and visible to occupants.	□Not Observable □Not Applicable		
1	Automatic controls to shut off all building lighting installed in all	□Complies □Does Not	Exception: Lighting that is related to means of egress in stairways, ramps, corridors, or emergency routes.	
[EL22] ²	buildings.	□Not Observable □Not Applicable		
C405.2.3 [EL16] ²	Daylight zones provided with individual controls that control the	□Complies □Does Not	Exception: Requirement does not apply.	
	lights independent of general area lighting.	□Not Observable □Not Applicable		
C405.2.3, C405.2.3.	Primary sidelighted areas are equipped with required lighting	□Complies □Does Not	Exception: Requirement does not apply.	
1, C405.2.3. 2 [EL20] ¹	controls.	□Not Observable □Not Applicable		
	Enclosed spaces with daylight area under skylights and rooftop monitors	□Complies □Does Not	Exception: Requirement does not apply.	
1,	are equipped with required lighting controls.	□Not Observable □Not Applicable		
[EL21] ¹				
C405.2.4 [EL4] ¹	Separate lighting control devices for specific uses installed per approved	□Complies □Does Not	Requirement will be met.	
	lighting plans.	□Not Observable □Not Applicable		
C405.2.4 [EL8] ¹	Additional interior lighting power allowed for special functions per the	□Complies □Does Not	Requirement will be met.	
	approved lighting plans and is automatically controlled and separated from general lighting.	□Not Observable □Not Applicable		
C405.2.5 [EL25] ^{null}	Automatic lighting controls for exterior lighting installed. Controls will be	□Complies □Does Not	Requirement will be met.	
	daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	□Not Observable □Not Applicable		
C405.3 [EL6] ¹	Exit signs do not exceed 5 watts per face.	□Complies □Does Not	Requirement will be met.	
		□Not Observable □Not Applicable	MD ENGINEERING Texas Registered Firm No. F-7489	

Texas Registered Firm No. F-7489 1255 West 15th Street, Suite 300 Plano, Texas 75075 469.467.0200 Email: mdengca@md-eng.com

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

Project Title: 7 Brew La Crosse WI Report date: 07/10/24
Data filename: Page 9 of 11

Section	-			
# & Req.ID	Final Inspection	Complies?	Comments/Assumptions	
C303.3, C408.2.5.	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	□Complies □Does Not	Requirement will be met.	
		□Not Observable □Not Applicable		
C408.2.5.	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	□Complies □Does Not	Requirement will be met.	
[FI8] ³		□Not Observable □Not Applicable		
	HVAC systems and equipment capacity does not exceed calculated loads.	□Complies □Does Not □	Requirement will be met.	
		□Not Observable □Not Applicable		
1	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	□Complies □Does Not	Requirement will be met.	
		□Not Observable □Not Applicable		
	deadband.	□Complies □Does Not	Requirement will be met.	
[50]		□Not Observable □Not Applicable		
	overlap restrictions.	□Complies □Does Not	Requirement will be met.	
		□Not Observable □Not Applicable		
2	Each zone equipped with setback controls using automatic time clock or programmable control system.	□Complies □Does Not	Requirement will be met.	
		□Not Observable □Not Applicable		
2.1,		□Complies □Does Not	Requirement will be met.	
2.2 [FI40] ³	backup	□Not Observable □Not Applicable		
	Heat traps installed on supply and discharge piping of non-circulating	□Complies □Does Not	Requirement will be met.	
	systems.	□Not Observable □Not Applicable		
C404.4 [FI25] ²		□Complies □Does Not	Requirement will be met.	
		□Not Observable □Not Applicable		
C405.4.1 [FI18] ¹	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	See the Interior Lighting fixture schedule for values.	
		□Not Observable □Not Applicable		
C405.5.1 [FI19] ¹		□Complies □Does Not	See the Exterior Lighting fixture schedule for values.	
		□Not Observable □Not Applicable		
1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)				

Project Title: 7 Brew La Crosse WI

Report date: 07/10/24 Page 10 of 11 Data filename:

Section # & Reg.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.1 [FI28] ¹	Commissioning plan developed by registered design professional or approved agency.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C408.2.3. 1 [FI31] ¹	HVAC equipment has been tested to ensure proper operation.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C408.2.3. 2 [FI10] ¹	tested to ensure proper operation, calibration and adjustment of controls.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C408.2.4 [FI29] ¹		☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5. 1 [FI7] ³		☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5. 1 [FI16] ³		☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5. 3 [FI43] ¹		☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5. 4 [FI30] ¹	receipt of certificate of occupancy.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C408.3 [FI33] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.



Texas Registered Firm No. F-7489 1255 West 15th Street, Suite 300 Plano, Texas 75075 469.467.0200 Email: mdengca@md-eng.com

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

Project Title: 7 Brew La Crosse WI Report date: 07/10/24

Data filename: Page 11 of 11