

**COMcheck Software Version 4.0.7.1**  
**Interior Lighting Compliance Certificate**

**Section 1: Project Information**  
 Energy Code: 2012 North Carolina Energy Conservation Code  
 Project Title: Taco Bell  
 Project Type: New Construction  
 Construction Site: 3623 Shakedown St., Charlotte, NC  
 Owner/Agent: [Redacted]  
 Designer/Contractor: Devita & Associates, Inc., 1100 E. Washington St., Greenville, SC 29601, 864-232-9842

**Section 2: Interior Lighting and Power Calculation**

Area Category	Floor Area (sq ft)	Allowed Watts (E-C)	Allowed Watts (E-D)
Living Family Dining	1912	0.28	1933
Total Allowed Watts =		1893	

**Section 3: Interior Lighting Fixture Schedule**

Fixture ID	Description / Lamp / Wattage Per Lamp / Ballast	Lamp / Fixture	# of Fixtures (C X D)	Watts
LED C18: C18: Downlight Grid Ceiling: Other		1	25	14
LED C18: C18: Downlight Grid Ceiling: Other		1	5	14
LED C18: C18: Downlight Grid Ceiling: Other		1	3	14
LED P7: P7: Pendant: Other		1	12	9
LED B1: B1: 2x4 Led: Other		1	16	45
LED B1E: B1E: 2x4 Led w/ Ball. Backup: Other		1	6	45
Total Proposed Watts =		1290		

**Section 4: Requirements Checklist**

**Lighting Wattage:**

Allowed Watts	Proposed Watts	Complies
1893	1290	YES

**Controls, Switching, and Wiring:**

2. Separate lighting controls present for Downlight/Track Lighting, Case Lighting, lighting for non-residential applications (e.g., such as plant growth and food processing, lighting equipment used in for demonstrations in lighting education).
3. Hotel and motel guest rooms and guest suites have a master control device at the main room entry that controls all permanently installed luminaires and selected receptacles.
4. Supplemental task lighting has a control device integral to the luminaire or is controlled by a wall-mounted control device provided the control device is readily accessible and located so that the occupant can see the controlled lighting.
5. Independent controls for each space (where occupancy varies).

**Compliance:** Passes

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 Com Check out  
 Report date: 11/09/17  
 Page 1 of 7

**COMcheck Software Version 4.0.7.1**  
**Exterior Lighting Compliance Certificate**

**Section 1: Project Information**  
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 Project Type: New Construction  
 Construction Site: 3623 Shakedown St., Charlotte, NC  
 Owner/Agent: [Redacted]  
 Designer/Contractor: Devita & Associates, Inc., 1100 E. Washington St., Greenville, SC 29601, 864-232-9842

**Section 2: Exterior Lighting Area/Surface Power Calculation**

Exterior Area/Surface	Quantity	Allowed Watts (E-C)	Allowed Watts (E-D)	Proposed Watts (E-C)	Proposed Watts (E-D)
Other door (not main entry) (3 ft of door width)	20	Yes	60	27	
Horizontal length of facade wall or surface (213 ft)	3.75	No	750	243	
Windowed length of facade wall or surface (1 window of doors)	400	No	400	40	
Main entry (8 ft of door width)	30	Yes	180	0	
Other door (not main entry) (3 ft of door width)	20	Yes	60	0	
Total Treducible Watts*		300		27	
Total Allowed Watts		1489			
Total Allowed Supplemental Watts**		750			

**Section 3: Exterior Lighting Fixture Schedule**

Fixture ID	Description / Lamp / Wattage Per Lamp / Ballast	Lamp / Fixture	# of Fixtures (C X D)	Watts
Other door (not main entry) (3 ft of door width): Treducible Wattage		1	1	27
LED 1: WPI: Other		2	3	9
LED 2: DS: Wall Sconce: Other		1	169	2
LED 3: X1: Top Light: Other		1	2	40
Other door (not main entry) (3 ft of door width): Treducible Wattage		1	2	40
Total Treducible Proposed Watts =		27		

**Section 4: Requirements Checklist**

**Lighting Wattage:**

Allowed Watts	Proposed Watts	Complies
1489	27	YES

**Controls, Switching, and Wiring:**

2. All exemption items are associated with fixtures that have a control device independent of the control of the room's lighting.
3. Lighting not designated for dusk-to-dawn operation is controlled by either a photo sensor (with time switch), or an astronomical time switch.
4. Lighting designated for dusk-to-dawn operation is controlled by either a photo sensor (with time switch), or an astronomical time switch.
5. All time switches are capable of retaining programming and the time setting during loss of power for a period of at least 10 hours.
6. Lighting controls are tested to ensure that control devices, components, equipment, and systems are calibrated, adjusted and operate in accordance with approved plans and specifications. Sequence of operation shall be functionally tested to ensure they operate in accordance with approved plans and specifications.

**Compliance:** Passes

Project Title: Taco Bell  
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 Com Check out  
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 Page 2 of 7

**COMcheck Software Version 4.0.7.1**  
**Mechanical Compliance Certificate**

**Section 1: Project Information**  
 Energy Code: 2012 North Carolina Energy Conservation Code  
 Project Title: Taco Bell  
 Project Type: New Construction  
 Construction Site: 3623 Shakedown St., Charlotte, NC  
 Owner/Agent: [Redacted]  
 Designer/Contractor: Devita & Associates, Inc., 1100 E. Washington St., Greenville, SC 29601, 864-232-9842

**Section 2: General Information**  
 Building Location (for weather data): Charlotte, North Carolina  
 Climate Zone: 3a

**Section 3: Mechanical Systems List**

Quantity	System Type & Description
1	HVAC System 1 (Single Zone) Heating: 1 each - Central Furnace, Gas, Capacity = 120 MBtu/h Proposed Efficiency = 92.0% E1, Required Efficiency = 92.0% E1 Cooling: 1 each - Single Package DX Unit, Capacity = 65 MBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 12.00 EER, Required Efficiency = 12.00 EER + 12.4 PLV Fan System: None
1	HVAC System 2 (Single Zone) Heating: 1 each - Central Furnace, Gas, Capacity = 250 MBtu/h Proposed Efficiency = 90.0% E1, Required Efficiency = 90.0% E1 Cooling: 1 each - Single Package DX Unit, Capacity = 148 MBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 12.00 EER, Required Efficiency = 12.00 EER + 12.4 PLV Fan System: None
1	Water Heater 2 Gas Storage Water Heater, Capacity: 115 gallons, Input Rating: 75 MBtu/h Proposed Efficiency = 0.81 E1, Required Efficiency = 0.81 E1

**Section 4: Requirements Checklist**

**Additional Efficiency Package Requirements:**

1. The high efficiency HVAC option has been selected as the additional efficiency package required by this energy code. Systems not satisfying the performance requirement are identified in the specific system requirement section below. Full compliance with the efficiency option requires inspection and verification that each system meets the required performance criteria.

**Requirements Specific To: HVAC System 1:**

1. Equipment minimum efficiency: Central Furnace (Gas): 92.0% E1 (or 92% AFUE)
2. Equipment minimum efficiency: Single Package Unit: 12.00 EER + 12.4 PLV
3. Integrated air economizer required
4. Cooling system provides a means to relieve excess outdoor air during economizer operation.
5. Hot gas bypass prohibited unless system has multiple stages of unloading or condenser capacity modulation
6. Hot gas bypass limited to 50% of total cooling capacity

**Requirements Specific To: HVAC System 2:**

1. Equipment minimum efficiency: Central Furnace (Gas): 90.0% E1 (or Table 506.2.1(a) for

**Compliance:** Passes

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 Page 3 of 7

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**Exterior Lighting Compliance Certificate**

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Horizontal length of facade wall or surface (213 ft)	3.75	No	750	243	
Windowed length of facade wall or surface (1 window of doors)	400	No	400	40	
Main entry (8 ft of door width)	30	Yes	180	0	
Other door (not main entry) (3 ft of door width)	20	Yes	60	0	
Total Treducible Watts*		300		27	
Total Allowed Watts		1489			
Total Allowed Supplemental Watts**		750			

**Section 3: Exterior Lighting Fixture Schedule**

Fixture ID	Description / Lamp / Wattage Per Lamp / Ballast	Lamp / Fixture	# of Fixtures (C X D)	Watts
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LED 3: X1: Top Light: Other		1	2	40
Other door (not main entry) (3 ft of door width): Treducible Wattage		1	2	40
Total Treducible Proposed Watts =		27		

**Section 4: Requirements Checklist**

**Lighting Wattage:**

Allowed Watts	Proposed Watts	Complies
1489	27	YES

**Controls, Switching, and Wiring:**

2. All exemption items are associated with fixtures that have a control device independent of the control of the room's lighting.
3. Lighting not designated for dusk-to-dawn operation is controlled by either a photo sensor (with time switch), or an astronomical time switch.
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6. Lighting controls are tested to ensure that control devices, components, equipment, and systems are calibrated, adjusted and operate in accordance with approved plans and specifications. Sequence of operation shall be functionally tested to ensure they operate in accordance with approved plans and specifications.

**Compliance:** Passes

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 Page 4 of 7

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Quantity	System Type & Description
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1	HVAC System 2 (Single Zone) Heating: 1 each - Central Furnace, Gas, Capacity = 250 MBtu/h Proposed Efficiency = 90.0% E1, Required Efficiency = 90.0% E1 Cooling: 1 each - Single Package DX Unit, Capacity = 148 MBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 12.00 EER, Required Efficiency = 12.00 EER + 12.4 PLV Fan System: None
1	Water Heater 2 Gas Storage Water Heater, Capacity: 115 gallons, Input Rating: 75 MBtu/h Proposed Efficiency = 0.81 E1, Required Efficiency = 0.81 E1

**Section 4: Requirements Checklist**

**Additional Efficiency Package Requirements:**

1. The high efficiency HVAC option has been selected as the additional efficiency package required by this energy code. Systems not satisfying the performance requirement are identified in the specific system requirement section below. Full compliance with the efficiency option requires inspection and verification that each system meets the required performance criteria.

**Requirements Specific To: HVAC System 1:**

1. Equipment minimum efficiency: Central Furnace (Gas): 92.0% E1 (or 92% AFUE)
2. Equipment minimum efficiency: Single Package Unit: 12.00 EER + 12.4 PLV
3. Integrated air economizer required
4. Cooling system provides a means to relieve excess outdoor air during economizer operation.
5. Hot gas bypass prohibited unless system has multiple stages of unloading or condenser capacity modulation
6. Hot gas bypass limited to 50% of total cooling capacity

**Requirements Specific To: HVAC System 2:**

1. Equipment minimum efficiency: Central Furnace (Gas): 90.0% E1 (or Table 506.2.1(a) for

**Compliance:** Passes

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 Page 5 of 7

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 Page 6 of 7

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 Page 7 of 7

**Order Plans**

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 Devita & Associates, Inc. Project: 17022-22  
 Drawn By: [Redacted]  
 Checked By: [Redacted]  
 RFB - NC Firm License # 0819

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CONTRACT DATE: 10.23.17  
 BUILDING TYPE: EXP. LITE MED40  
 PLAN VERSION: DECEMBER 2016  
 SITE NUMBER: 311687  
 STORE NUMBER: 435653

TACO BELL  
 3923 SHAKEDOWN ST.  
 CHARLOTTE, NC

**TACO BELL**  
 EXPLORER LITE  
 MEDIUM54

**ENERGY CALCULATIONS**

**E1.1**