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COMcheck Software Version 4.1.2.1
Mechanical Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Bojangle's Restaurant
Location: Madison (Madison), Alabama
Climate Zone: 3a
Project Type: New Construction

Construction Site: Lena Cain Blvd & County Line Rd
Madison, AL
Owner/Agent:
Designer/Contractor: Tim Bollwerk
Marshall & Bollwerk Engineering,
Inc.
950 Northpoint Parkway
Suite 375
Alpharetta, GA 30005

Additional Efficiency Package(s)

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Mechanical Systems List

Quantity System Type & Description
3 RTU-1,2,3 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 180 kBtu/h
Proposed Efficiency = 80.00% E1, Required Efficiency: 80.00 % E1 or 76% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 85 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 12.50 EER, Required Efficiency: 11.00 EER + 12.6 SEER
Fan System: 7.5 Ton RTU -- Compliance (Motor nameplate HP method) : Passes
Fans:
FAN 1 Supply, Constant Volume, 3050 CFM, 2.0 motor nameplate hp, 0.0 fan efficiency grade
1 RTU-4 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 240 kBtu/h
Proposed Efficiency = 80.00% E1, Required Efficiency: 80.00 % E1
Cooling: 1 each - Single Package DX Unit, Capacity = 117 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 12.50 EER, Required Efficiency: 11.00 EER + 12.6 SEER
Fan System: 10 Ton RTU -- Compliance (Motor nameplate HP method) : Passes
Fans:
FAN 2 Supply, Constant Volume, 4000 CFM, 3.0 motor nameplate hp, 0.0 fan efficiency grade
1 RTU-5 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 85 kBtu/h
Proposed Efficiency = 80.00% E1, Required Efficiency: 80.00 % E1 or 76% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 34 kBtu/h, Air-Cooled Condenser, Unknown Economizer
Proposed Efficiency = 15.00 SEER, Required Efficiency: 14.00 SEER
Fan System: 3 Ton RTU -- Compliance (Motor nameplate HP method) : Passes
Fans:
FAN 3 Supply, Constant Volume, 1200 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade
1 WH-1:
Gas Storage Water Heater, Capacity: 60 gallons, Input Rating: 199 kBtu/h
Proposed Efficiency: 94.80 % E1, Required Efficiency: 80.00 % E1
1 WH-2:
Electric Storage Water Heater, Capacity: 30 gallons

Project Title: Bojangle's Restaurant
Data filename: Y:\2020 Projects\AKA\Bojangles\Madison Ave\Comcheck\Bojangles\Madison-HVAC.cck
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Quantity System Type & Description
Proposed Efficiency: 0.89 SL, %h (# > 12 kW), Required Efficiency: 1.20 SL, %h (# > 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 4.1.2.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Matthew Mercer
Name - Title Signature Date
4/22/2020

R-2002
DATE RELEASE FOR CONSTRUCTION
04.17.20
CHECKED BY: MM
DRAWN BY: TB
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J.E. BRISCOE WAY & MADISON BLVD, PROJECT: R-2002
MADISON, MADISON COUNTY ALABAMA DATE: 04/17/20
Bojangles RESTAURANT
COMCHECK ENERGY CODE COMPLIANCE

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