



COMcheck Software Version 4.1.2.0
Mechanical Compliance Certificate

Project Information

Energy Code: 2017 Florida Building Code, Energy Conservation
Project Title: Caliber Collision
Location: Lakeland, Florida
Climate Zone: 2a
Project Type: New Construction

Construction Site: 2300 Griffin Road, Lakeland, FL 33810
Owner/Agent: Tim Gallup, Gallup Architects, 601 S. Boulder Ave., Ste. 808, Tulsa, OK 74119, 918.949.9600
Designer/Contractor: Carter Johnson Olson, 1717 S. Boulder Ave., Ste. 600, Tulsa, OK 74119, 918.376.4294

Additional Efficiency Package(s)
Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Mechanical Systems List

Quantity System Type & Description

- 2 RTU-1.2 (Single Zone): Heating: 2 each - Central Furnace, Gas, Capacity = 300000 kBtu/h
Proposed Efficiency = 81.00% E1, Required Efficiency: 80.00% E1
Cooling: 2 each - Single Package DX Unit, Capacity = 183000 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 11.10 EER, Required Efficiency: 9.50 EER + 11.0 EER
Fan System: RTU-1.2 SUPPLY FAN | SHOP - Compliance (Brake HP method) - Passes
Fans: FAN 1 Supply, Constant Volume, 5250 CFM, 3.0 motor nameplate hp, 2.0 design brake hp (2.1 max. BHP), 80.0 fan efficiency grade
- 1 RTU-3 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 120000 kBtu/h
Proposed Efficiency = 80.00% E1, Required Efficiency: 80.00% E1
Cooling: 1 each - Single Package DX Unit, Capacity = 87500 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 11.30 EER, Required Efficiency: 9.50 EER + 11.0 EER
Fan System: RTU-3 SUPPLY FAN | OFFICE - Compliance (Brake HP method) - Passes
Fans: FAN 1 Supply, Constant Volume, 3000 CFM, 3.0 motor nameplate hp, 2.2 design brake hp (2.2 max. BHP), 80.0 fan efficiency grade
- 1 RH-1.2 (Single Zone): Heating: 1 each - Radiant Heater, Electric, Capacity = 25000 kBtu/h
No minimum efficiency requirement applies
Fan System: None
- 1 UH-1 (Single Zone): Heating: 1 each - Unit Heater, Electric, Capacity = 10239 kBtu/h
No minimum efficiency requirement applies
Fan System: UH-1, FAN | RISER ROOM - Compliance (Motor nameplate HP method) - Passes
Fans: FAN 1 Supply, Constant Volume, 300 CFM, 0.0 motor nameplate hp, 80.0 fan efficiency grade
- 1 WH-1: Electric Storage Water Heater, Capacity: 19 gallons w/ Circulation Pump

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Section # & Req ID	Heating / Foundation Inspection	Complies?	Comments/Assumptions
C403.2.4.5	Snow/ice melting system sensors for future connection to controls. Freeze protection systems have automatic controls installed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

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

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Quantity System Type & Description
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 2017 Florida Building Code, Energy Conservation requirements in COMcheck Version 4.1.2.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

CARTER JOHNSON - SENIOR ENGINEER
Name - Title Signature Date 08-19-20

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Section # & Req ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5.1	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details. [PL.6]	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.5.2	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details. [PL.6]	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.5.3	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details. [PL.6]	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.5.4	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details. [PL.6]	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.5.5	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details. [PL.6]	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.6.1	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace. [PL.7]	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.6.2	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. [PL.7]	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.6.3	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. [PL.7]	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.6.4	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. [PL.7]	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.6.5	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. [PL.7]	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.6.6	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. [PL.7]	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.6.7	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. [PL.7]	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

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

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COMcheck Software Version 4.1.2.0
Inspection Checklist

Energy Code: 2017 Florida Building Code, Energy Conservation

Requirements: 2.0% 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]	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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C103.2 [PR3]	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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.6 [PR17]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Provisions are made for metering individual tenant units. Feeder conductors (for feeder and branch circuits) sized in accordance with approved plans with maximum drop of 5% voltage drop total.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C406 [PR9]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: M2.0

Additional Comments/Assumptions:

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Section # & Req ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.7 [PL8]	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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.7 [PL8]	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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
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Additional Comments/Assumptions:

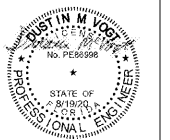
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CALIBER COLLISION

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timothy m. gallup architect of record
601 S. Boulder Ave., Suite 808, Tulsa, Oklahoma 74119, 918.949.9600

NO.	DATE	BY	DESCRIPTION

MECHANICAL COMCHECK CALCULATIONS
CALIBER COLLISION
2300 GRIFFIN RD, LAKELAND, FL
PROJECT NO. 202002

FILE NAME: 192006
DRAWN BY: BPH
DATE: 08/19/2020
REVIEWED BY: MS

M6.1