

8/23/2022



Department of Development Services  
Building Inspections

City of Denton Texas 2021 IECC Commercial Energy  
Compliance Certificate Path  
(for new construction, additions, and first finish outs)

**PROVIDE THIS FORM AT PERMIT SUBMITTAL**

**Permit Address:** \_\_\_\_\_ **Permit #:** \_\_\_\_\_

**2021 IECC C401.2.1**

**Option 1 – IECC Prescriptive:** (May use COMcheck to demonstrate compliance.)

C402 – Building Envelope Requirements

C403 – Building Mechanical Systems

C404 – Service Water Heating

C405 – Electrical Power and Lighting Systems

C406 – Additional energy efficiency credit requirements – New buildings shall achieve a total of 10 credits from Tables C406.1(1) through C406.1(5) where the table is selected based on the use group of the building and from credit calculations as specified in relevant subsections of Section C406.

**Option 2 – Total Building Performance:** (Building energy cost less than or equal to 85% of the annual energy cost of the standard reference design.) Must comply with Section C407 – Total Building Performance and the sections outlined in Table C407.2.

**Does this project require commissioning?**

- YES-** complete 2<sup>nd</sup> page and provide at final. Construction documents shall clearly indicate provisions for commissioning and completion requirements in accordance with section C408.2 and are permitted to refer to specifications for further requirements.
- NO-** Mechanical systems where the total mechanical equipment capacity is less than 480,000 Btuh cooling capacity and 600,000 Btuh combined capacity service water-heating and space-heating systems **OR** system serves sleeping/dwelling units.

**2019 ASHRAE 90.1(IECC C401.2.2)- New buildings shall comply with sections 4.2.2 through 4.2.5 and one of the following:**

**Option 3A – ASHRAE 90.1 -2019 Prescriptive:** (May use COMcheck to demonstrate compliance.)

Section 5 – Building Envelope

Section 8 – Power

Section 6 – HVAC

Section 9 – Lighting

Section 7 – Service Water Heating

Section 10 – Other Equipment

**Option 3B – ASHRAE 90.1 -2019 Section 11 Energy Cost Budget Method:**

Section 5.2.1, 6.2.1, 7.2.1, 8.2.1, 9.2.1, and 10.2.1; Design energy cost (Sec. 11.5) ≤ energy cost budget (Sec. 11.4); Energy efficiency level of components specified meet or exceed energy efficiency levels used to calculate energy costs; Verification, testing, and commissioning requirements of Section 4.2.5 shall be met; and a list of the energy-related features that are included in the design and on which compliance with the provisions of section 11 is based as required by Section 11.7.2(d.), that do not have criteria in Sections 5 through 10 shall have verification or testing document proper installation and operation in accordance with Section 4.2.5.

I certify that I have reviewed the construction documents including, but not necessarily limited to, insulation materials and R-values; fenestration U-factors and SHGC values; area-weighted average U-factor and SHGC calculations; mechanical system design criteria; mechanical and service water heating system and equipment types, sizes and efficiencies; equipment and systems controls; duct sealing, duct and piping insulation and location; and air sealing details; and that the project as designed satisfies the minimum requirements for the compliance approach selected above.

**Print Name:** \_\_\_\_\_ **ICC/Engineer/Architect Certification Number:** \_\_\_\_\_

**Energy Rater/Preparer Company:** \_\_\_\_\_ **Phone number:** \_\_\_\_\_

**Signature of Energy Rater/Preparer:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**ATTACH THE APPLICABLE COMPLIANCE REPORT**

**COMMISSIONING COMPLIANCE CHECKLIST** (adapted from 2015/2018/2021 IECC)

Project Name: \_\_\_\_\_

Project Address: \_\_\_\_\_ Permit Number: \_\_\_\_\_

Commissioning Provider (CxP): \_\_\_\_\_

Company/CxP address: \_\_\_\_\_

ITEM	COMMISSIONING DOCUMENTATION	APPROVAL
<b>1.</b>	<b>Project Commissioning Requirements</b>	
	Project commissioning requirements included in project contract documents.	
<b>2.</b>	<b>Commissioning Plan</b>	
	Commissioning Plan with checklists (before start of functional testing) completed. (Section C408.2.1)	
<b>3.</b>	<b>Commissioning Plan Utilized</b>	
	Commissioning Plan was used during construction and includes items required in Section 408.2.1	
<b>4.</b>	<b>Systems Adjusting and Balancing</b>	
	Systems Adjusting and Balancing has been completed	
<b>5.</b>	<b>HVAC Equipment</b>	
	HVAC Equipment Functional Testing has been executed. If applicable, deferred and follow up testing is scheduled to be completed on _____	
<b>6.</b>	<b>HVAC Controls</b>	
	HVAC Controls Functional Testing has been executed. If applicable, deferred and follow up testing is scheduled to be completed on _____	
<b>7.</b>	<b>Economizers</b>	
	Economizer Functional Testing has been executed. If applicable, deferred and follow up testing is scheduled to be completed on _____	
<b>8.</b>	<b>Lighting Controls</b>	
	Lighting Controls Functional Testing has been executed. If applicable, deferred and follow up testing is scheduled to be completed on _____	
<b>9.</b>	<b>Service Water Heating</b>	
	Service Water Heating Functional Testing has been executed. If applicable, deferred and follow up testing is scheduled to be completed on _____	
<b>10.</b>	<b>Systems Manual</b>	
	Project documentation, and Systems and O&M Manual, and training completed or scheduled.	
<b>11.</b>	<b>Commissioning Report</b>	
	Preliminary Commissioning Report submitted to Owner and includes all items required in C408.2.4	

**Owner/Owner's Representative Acknowledgement**

I hereby certify that the commissioning provider has provided me with evidence of mechanical, service water heating and lighting systems commissioning in accordance with the 2021 IECC.

Name/Company: \_\_\_\_\_

Owner  Owner's Representative

Signature: \_\_\_\_\_

Date: \_\_\_\_\_