



City of Galveston
Residential Energy Compliance Path
Energy Code Requirements of the 2021 IECC (IRC)
Submit with application for Building Permit

Project Address: _____

Permit Number: _____

Project shall comply with one of the following:

Option #1 – Prescriptive Compliance: Sections R401 through R404 (N1101 through N1104)

Option #2 – Prescriptive -Using Res-check™ UA approach only: Compliance: Section R405 (N1105)

- Includes compliance with requirements from Sections R401 through R402 as indicated in Table R405.2

Option #3 – IECC Energy Rating Index Compliance: Sections R406 (N1106)

- Includes compliance with requirements from Sections R401 through R402 as indicated in Table R406.2
 - Note: The HERS® index is not valid for code compliance.

Option #4 – ENERGY STAR Certified Homes® R102.1.1 (N1101.4.1)

- Includes compliance with requirements from Sections R401 through R402 as indicated in Table R405.2
- Includes compliance with requirements from Section R402.4.1.2 (N1102.4.1.2), R403.3.3 (N1103.3.3), and R403.6.3 (N1103.6.3).
 - Note: Each 1- and 2-family dwelling shall be tested.

Option #5 – HB 3215 (87R) Home Energy Rating System Index Compliance

- Includes compliance with ANSI/RESNET/ICC 301, as it existed on January 1, 2021.
- Includes compliance with the Mandatory requirements of 2018 IECC Section R406.2.
- Includes compliance with Building thermal envelope provision of 2018 IECC R402.1.2 or 2018 IECC R402.1.4.

Attach appropriate site-specific design compliance report and inspection checklist.

Name and version of the compliance software (if selecting Option 2 through 5): _____

I certify that I have verified 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, mechanical ventilation, sizes and efficiencies; equipment and system controls; duct sealing, duct and piping insulation and location; air sealing details; and that the project as designed satisfies the minimum requirements for the compliance approach selected above.

Agency and Certification Number: _____

Signature of Responsible Party: _____

Printed Name and Title of Responsible Party: _____



City of Galveston
Residential Energy Testing Compliance Certificate Energy Code
Requirements of the 2021 IECC (IRC)

Submit this form at building completion.

Project Address: _____ Permit Number: _____

BUILDING THERMAL ENVELOPE TESTING VERIFICATION

Building Thermal Envelope Leakage Testing (R402.4.1.2):

_____ ACH50 _____ CFM per SF of dwelling unit enclosure*

I certify that I have conducted an **air leakage test and it has passed the requirements of the 2021 International Energy Conservation Code**. I further certify the testing was conducted in accordance with ANSI/RESNET/ICC 380, ASTM E779, or ASTM E1827 and that I am certified to perform air infiltration testing certified by national or state organizations as approved by the building official. I am a third party, not employed or have any financial interest in the company that constructs the structure.

Agency and Certification Number: _____

Signature of Responsible Party: _____

Printed Name and Title of Responsible Party: _____

DUCT LEAKAGE TESTING VERIFICATION

Rough-In Test Option (R403.3.5 1.) **Post Construction Test Option (R403.3.5 2.)**

System #1 - _____ CFM25 System #2 - _____ CFM25 System #3 - _____ CFM25
System #4 - _____ CFM25 System #5 - _____ CFM25 System #6 - _____ CFM25

I certify that I have conducted a **total duct leakage test and it has passed the requirements of the 2021 International Energy Conservation Code**. I further certify that the testing was conducted in accordance with AMSI/RESNET/ICC 380 or ASTM E1554.

Agency and Certification Number: _____

Signature of Responsible Party: _____

Printed Name and Title of Responsible Party: _____

MECHANICAL VENTILATION AIRFLOW TESTING VERIFICATION

Whole house System #1 - _____ CFM Whole house System #2 - _____ CFM
Exhaust System #1 - _____ CFM Exhaust System #2 - _____ CFM Exhaust System #3 - _____ CFM
Exhaust System #4 - _____ CFM Exhaust System #5 - _____ CFM Exhaust System #6 - _____ CFM

I certify that I have conducted **whole-dwelling mechanical ventilation airflow and exhaust ventilation airflow tests and they have passed the requirements of the 2021 International Residential Code or International Mechanical Code as applicable**. I further certify that I am a third party as approved by the building official.

Agency and Certification Number: _____

Signature of Responsible Party: _____

Printed Name and Title of Responsible Party: _____

* Per R402.4.1.2 and R402.4.1.3: The maximum infiltration rate for Option 1 Prescriptive Path is 5 ACH in Climate Zone 2.