2024 City of Boulder Energy Conservation Code Residential Testing Forms

Instructions:

These forms shall be used for reporting of the testing required for residential construction projects. Depending on the project scope, one or all these forms may need to be submitted. If applicable to the project, once testing has been completed, fill out the form and submit to the CSS portal to satisfy your energy code conditions.

Forms:

- Residential Envelope Testing Form
- Residential Duct Testing Form
- Residential Ventilation Testing Form



HERS Rater, RFI or BPI Cert #

City Of Boulder Colorado Energy Conservation Code Residential Envelope Test Reporting

Planning and Development Services Building Codes
1101 Arapahoe Ave. Boulder CO 80302 Phone303-441-1880

House Address: Permit Holder:	Permit #: Phone #: Testing Date:
Building Envelope Air Leakage Blowe	er Door Test
R402.4.1.2 Testing. The building or dwelling unit shall be tested for air leakage. The maximum air leakage rate 3.0 air changes per hour for single family buildings, or 0.16 CFM per square foot of dwelling unit enclosure area for other than a single-family buildings. Testing shall be conducted in accordance with RESNET/ICC 380, ASTM E779 or ASTM E1827 Automated Multi Point Test Required. Attach copy of blower door manufacture software report	
Total SQFT of Conditioned Floor Area (CFA) Total Conditioned space Volume Total Dwelling Unit Enclosure Area Test Results ACH50 = CFM50 x 60 / Volume = ACH50 or CFM50 / dwelling unit enclosure area	ACH50 CFM/sqft of dwelling unit enclosure area
Testing company: Tester Name (print): Signature: Phone: Email:	Picture of Guage test results



City Of Boulder Colorado Energy Conservation Code Residential Duct Testing Reporting

Planning and Development Services Building Codes
1101 Arapahoe Ave. Boulder CO 80302 Phone303-441-1880

House Address: Permit #: Permit Holder: Phone #: **Testing Date: Duct Leakage Testing:** R403.4.5 Ducts shall be pressure tested in accordance with ANSI/RESNET/ICC 380 or ASTM E1554 Number of Duct Systems Type of test: Rough-in with air handler Rough-in without air handler Post construction System 1 System 2 System 3 System 4 SQFT of Conditioned Floor Area (CFA) served **Total Duct Leakage Target** ≤ X CFM of leakage 4CFM duct leakage target (CFA/100) x (4CFM) 3CFM Duct leakage target (CFA/100) x (4CFM) Rough- in Test Total Duct Leakage Tested Duct tester fan flow cfm@25 **Post Construction Total Duct Leakage Test** Duct tester fan flow cfm@25 Duct System serves ≤ 1200 SQFT leakage target 50CFM Duct tester fan flow cfm@25 **Duct Leakage to Outside Test for R406 ERI Compliance** Duct tester fan flow cfm@25 Picture of Guage test results Testing company: Tester Name (print): Signature: Phone: Email: HERS Rater, RFI or BPI Cert #



Email:

Certification #

City Of Boulder Colorado Energy Conservation Code Residential Ventilation Testing Reporting

Planning and Development Services Building Codes
1101 Arapahoe Ave. Boulder CO 80302 Phone: 303-441-1880

House Address: Permit #: Permit Holder: Phone #: **Testing Date: Ventilation Flow Mearuements:** R403.7.3 Testing. Mechanical ventilation systems shall be tested and verified to provide the minimum ventilation flow rates required by Section R403.7 Bath and Powder room Ventilation flow ≥ 50 CFM System 2 System 5 System 1 System 3 System 4 Location Location Location Location Location Flow Rate Flow Rate Flow Rate Flow Rate Flow Rate CFM Whole House Controlled Ventilation System Balanced Ventilation System ASHRAE 62.2 Ventilation Target CFM Measured Ventilation Rate CFM Kitchen Hood ventilation rate is ≥ 100 CFM CFM Measured Ventilation Rate OR Exempt from testing: Kitchen range hoods that are ducted to the outside with 6-inch or larger duct and not more than one 90-degree elbow or equivalent in the duct run. Testing company: Tester Name (print): Signature: Phone: