



# Duct Leakage Testing

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Building Official

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## Purpose

This establishes the requirements for testing and reporting duct leakage in new Residential Construction

## Program Criteria

### 1. Qualifications for Personnel Performing Test

The licensed mechanical contractor installing the mechanical system shall be permitted to perform the duct leakage testing. The contractor shall have been trained on the equipment used to perform the test.

### 2. Testing Requirements

A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope. Ducts shall be pressure tested to determine air leakage by one of the following methods:

- A. Rough-in Test: Total leakage shall be measured with a pressure differential of 0.1-inch w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test.
- B. Post Construction Test: Total leakage shall be measured with a pressure differential of 0.1-inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test.
- C. Test for ducts within thermal envelope: Where all ducts and air handlers are located entirely within the building thermal envelope, total leakage shall be less than or equal to 8.0 cubic feet per minute (226.6 L/min) per 100 square feet (9.29 m<sup>2</sup>) of conditioned floor area

### 3. Reporting

The completed County [Residential Duct Leakage Certification](#) shall be uploaded to the Building Permit Case. The Rough-in Test shall be submitted before the Residential Combination Close-in Inspection (198) is scheduled. The Post Construction Test shall be submitted before the Residential Combination Final Inspection (199) is scheduled.

## Attachment/Hyperlinks

- [Residential Duct Leakage Certification](#)