



CLARK COUNTY OHIO

COMMUNITY & ECONOMIC DEVELOPMENT

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Building Thermal Envelope Air Leakage Testing (i.e. Blower Door Test)

In accordance with Section 1102.4.1.2 of the 2019 Residential Code of Ohio, every new residential dwelling, subject to compliance with the energy provisions of Chapter 11, shall have its building thermal envelope tested and verified as having an air-leakage rate of not more than five air changes per hour.

The testing shall be conducted in accordance with RESNET / ICC 380, ASTM E779 or ASTM E1827, and shall be reported at a pressure of 0.2 inch w.g. (50 Pascals). The test may be performed any time after the creation of all penetrations in the building thermal envelope. Per Section 1102.4.1.2, a written report of the test results shall be signed by the party conducting the test and provided to our office the time of Final Inspection. The test results shall be in an approved format or this form may be completed and used to report the testing results.

Site Address: \_\_\_\_\_

Date of Testing: \_\_\_\_\_

Resulting Air Leakage (ACH): \_\_\_\_\_

Testing Methodology (check one): [ ] RESNET / ICC 380 [ ] ASTM E779 [ ] ASTM E1827

Company Name performing the test: \_\_\_\_\_

Printed Name: \_\_\_\_\_

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

The following is an excerpt from the 2019 Residential Code of Ohio relating to air-leakage testing:

1102.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate of not more than five air changes per hour. Testing shall be conducted in accordance with RESNET / ICC 380, ASTM E779 or ASTM E1827 and reported at a pressure of 0.2 w.g. (50 Pascals). A written report of the results of the test shall be signed by the party conducting the test and provided to the building official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

During testing:

- 1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weather-stripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, where installed at the time of the test, shall be open.
4. Exterior or interior terminations for continuous ventilation systems shall be sealed.
5. Heating and cooling systems, where installed at the time of the test, shall be turned off.
6. Supply and return registers, where installed at the time of the test, shall be fully open.

Exception: Existing buildings complying with Section 1107.