

1 (4) Duct Tester Qualifications

2 The duct tester shall be certified by one of the following:

3 (A) Residential Energy Services Network Certified Rater (RSNET) or equivalent

4 (B) Building Performance Institute Certified Rater (BPI)

5 (C) AR HVACR Association Certified Duct Tester

6 **Sec. 8-563-Duct Testing Criteria:**

7 Duct Testing shall be verified by either of the following:

8 (1) Rough-In Test:

9 Total leakage shall be less than or equal to 6 cfm (169.9L/min) per 100 ft² (9.29m²) of
10 *conditioned floor area* when tested at a pressure differential of 0.1 inches w.g. (25 Pa)
11 across the roughed in system, including the manufacturer's air handler enclosure. All
12 register boots shall be taped or otherwise sealed during the test. If the air handler is not
13 installed at the time of the test, total leakage shall be less than or equal to 4 cfm
14 (113.L/min) per 100 ft² (9.29m²) of conditioned floor area.

15 (2) Post Construction test:

16 Leakage to outdoors shall be less than or equal to 8 cfm (226.5 L/min) per 100 ft²
17 (9.29m²) of *conditioned floor area* or a total leakage less than or equal to 12 cfm (12
18 L/min) per 100ft² (9.29m²) of *conditioned floor area* when tested at a pressure
19 differential of 0.1 inches w.g. (25Pa) across the entire system, including the
20 manufacturer's air handler enclosure. All register boots shall be taped or otherwise
21 sealed during the test.

22 Exceptions: Duct tightness test is not required if the air handler and all ducts are located
23 within conditioned space.

24 (3) Duct testing compliance and verification:

25 The tester shall provide (City-provided form) within five (5) days of completion to the
26 Building Codes Division, the results of the test and that the duct testing complies with 8-
27 563(1) or 8-563(2). A Certificate of Occupancy shall not be issued without completion
28 verification and compliance with the duct testing requirements.

29 (4) Sticker:

30 The 2014 AR. Energy Code label shall be completed and posted permanently on the
31 electrical distribution panel and front entrance of structure. The sticker may be removed
32 from the front entrance after occupancy or sale of the property. Under other info the date
33 of duct testing shall be noted.

34 **Sec. 8-564-Blower Door Testing (Spray Foam Insulated Structures)**

35 (1) New Residential Construction:

1 Blower Door Testing shall be required for all new single family residential and multi-
2 family structures. Residential developments that utilize the exact same floor plan
3 multiple times are required to have blower door testing completed on a minimum of 20%
4 of residential units.

5 (2) Addition, Alterations and Renovations:

6 Additions, alterations and renovations to existing residential structures shall not be
7 required to comply with blower door testing requirements, but shall be required to
8 comply with the 2014 AR Energy Code and 2010 AR Mechanical Code.

9 (3) Repairs:

10 All repairs to existing residential structures and mechanical systems shall not be required
11 to comply with the blower door testing requirements, but shall be required to comply
12 with the 2014 AR Energy Code and 2010 AR Mechanical Code.

13 (4) Blower Door Testing Qualifications:

14 The duct tester shall be certified by the following:

15 (A) Residential Energy Services Network (RSNET) Certified Energy Rater or
16 equivalent.

17 **Sec.8-564** Blower Door Testing Criteria:

18 Blower Door Testing and compliance shall meet the 2014 AR Energy Code and 2010 AR
19 Mechanical Code for foam insulated structures.

20 (3) Blower Door Testing and compliance and Verification:

21 The tester shall provide (City-provided form) within five (5) days of completion to the
22 Building Codes Division, the results of the test and that the blower door test complies
23 with the code. A Certificate of Occupancy shall not be issued without completion
24 verification and compliance with the testing requirements.

25 (4) Sticker:

26 The 2014 AR Energy Code label shall be completed and posted permanently on the
27 electrical distribution panel and front entrance to the residential structure. The sticker
28 may be removed from the front entrance after occupancy or sale of the property. The
29 date of blower door testing results shall be noted.

30 **Section 2.** That in order to adequately prepare the residential construction industry for the duct
31 testing and the related new testing requirements, the effective date of the new code shall be implemented
32 as follows:

33 (1) This ordinance shall be in full force and effect six (6) months from the date of its
34 passage for all new residential structures permitted on or after this date.

1 **PASSED: March 20, 2018**

2 **ATTEST:**

APPROVED:

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5 **Susan Langley, City Clerk**

_____ **Mark Stodola, Mayor**

6 **APPROVED AS TO LEGAL FORM:**

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9 **Thomas M. Carpenter, City Attorney**

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