

# BUILDING LEAKAGE TEST

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Date of Test: 2/17/2014

Test File: 2014-02-17 6704 (Mid Adams) Test 01

Customer:

Technician: K. Ueno

Project Number:

Building Address: Middle Unit-Adams Lot 75  
6704 Central Avenue  
Capitol Heights, MD

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## Test Results

- Airflow at 50 Pascals:  
(50 Pa = 0.2 w.c.)  
1271 CFM50 ( +/- 0.4 %)  
5.30 ACH50  
0.7474 CFM50/ft<sup>2</sup> floor area  
0.2921 CFM50/ft<sup>2</sup> surface area
  - Leakage Areas:  
129.5 in<sup>2</sup> ( +/- 1.2 %) Canadian EqLA @ 10 Pa  
68.5 in<sup>2</sup> ( +/- 1.9 %) LBL ELA @ 4 Pa
  - Building Leakage Curve:  
Flow Coefficient (C) = 96.9 ( +/- 3.1 %)  
Exponent (n) = 0.658 ( +/- 0.009 )  
Correlation Coefficient = 0.99948
  - Test Settings:  
Test Standard: CGSB  
Test Mode: Depressurization
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## Infiltration Estimates

- Estimated Average Annual Infiltration Rate:
  - Estimated Design Infiltration Rate:
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## Cost Estimates

- Estimated Cost of Air Leakage for Heating:
- Estimated Cost of Air Leakage for Cooling:

## BUILDING LEAKAGE TEST Page 2 of 4

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### Building Information

Volume	<b>14375.6</b>
Surface Area	<b>4350</b>
Floor Area	<b>1700</b>
Height	
# of Bedrooms	<b>3</b>
# of Occupants	<b>4</b>
Year of Construction	<b>2014</b>
Wind Shield	<b>M</b>

### Location Climate Information

Ventilation Weather Factor	
Energy Climate Factor	
Heating Degree Days	
Cooling Degree Days	
Design Winter Wind Speed	
Design Summer Wind Speed	
Design Winter Temp Diff	
Design Summer Temp Diff	

### Heating and Cooling Cost and Efficiency Information

Heating Fuel	<b>Gas</b>
Heating Fuel Cost	
Heating Efficiency %	
Cooling Fuel Cost	
Cooling SEER	

### Equipment Information

Type	Manufacturer	Model	Serial Number	Custom Calibration Date
<b>Fan</b>	Energy Conservatory	Duct Blaster B	0791	-
<b>Micromanometer</b>	Energy Conservatory	DG700	38248-7	12/11/2013

**BUILDING LEAKAGE TEST Page 3 of 4**

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**Depressurization Test:**

**Environmental Data**

<b>Indoor Temperature (°F)</b>	<b>Outdoor Temperature (°F)</b>
70.0	32.0

**Data Points**

<b>Nominal Building Pressure (Pa)</b>	<b>Baseline Adjusted Building Pressure (Pa)</b>	<b>Fan Pressure (Pa)</b>	<b>Nominal Flow (cfm)</b>	<b>Adjusted Flow (cfm)</b>	<b>% Error</b>	<b>Fan Configuration</b>
-4.9	n/a	n/a				
-55.0	-50.9	144.8	1329	1281	-0.4	Open
-49.8	-45.7	128.4	1251	1205	0.6	Open
-44.8	-40.7	109.8	1156	1114	0.4	Open
-40.6	-36.5	94.9	1074	1035	0.2	Open
-35.1	-31.0	75.2	956	921	-0.7	Open
-29.9	-25.8	58.5	842	811	-1.3	Open
-24.8	-20.7	44.9	737	710	-0.3	Open
-19.4	-15.3	31.4	616	594	1.7	Open
-3.3	n/a	n/a				

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**Deviations from Standard CGSB - Test Parameters**

**None**

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**BUILDING LEAKAGE TEST Page 4 of 4**

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**Comments**

Test 1: As-found, furnace off, exhaust fan off

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