

BUILDING LEAKAGE TEST

Date of Test: 2/17/2014

Test File: 2014-02-17 6702 (W Adams) Test 01

Customer:

Technician: K. Ueno

Project Number:

Building Address: West Unit-Adams Lot 74
6702 Central Avenue
Capitol Heights, MD

Test Results

- Airflow at 50 Pascals:
(50 Pa = 0.2 w.c.)
 - 1408 CFM50 (+/- 0.3 %)
 - 5.88 ACH50
 - 0.8285 CFM50/ft² floor area
 - 0.3238 CFM50/ft² surface area
 - Leakage Areas:
 - 148.2 in² (+/- 0.8 %) Canadian EqLA @ 10 Pa
 - 79.8 in² (+/- 1.3 %) LBL ELA @ 4 Pa
 - Building Leakage Curve:
 - Flow Coefficient (C) = 116.1 (+/- 2.2 %)
 - Exponent (n) = 0.638 (+/- 0.006)
 - Correlation Coefficient = 0.99973
 - 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:

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Building Information

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

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	Gas
Heating Fuel Cost	
Heating Efficiency %	
Cooling Fuel Cost	
Cooling SEER	

Equipment Information

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

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Depressurization Test:

Environmental Data

Indoor Temperature (°F)	Outdoor Temperature (°F)
70.0	32.0

Data Points

Nominal Building Pressure (Pa)	Baseline Adjusted Building Pressure (Pa)	Fan Pressure (Pa)	Nominal Flow (cfm)	Adjusted Flow (cfm)	% Error	Fan Configuration
-5.1	n/a	n/a				
-50.7	-46.1	155.9	1379	1329	-0.6	Open
-49.7	-45.0	153.6	1369	1319	0.1	Open
-45.1	-40.5	133.8	1277	1231	-0.0	Open
-39.9	-35.2	113.9	1178	1135	0.7	Open
-35.3	-30.6	94.8	1074	1035	0.5	Open
-30.2	-25.5	74.3	950	915	-0.2	Open
-25.1	-20.4	55.4	820	790	-0.7	Open
-19.9	-15.2	38.7	684	659	-0.0	Open
-4.2	n/a	n/a				

Deviations from Standard CGSB - Test Parameters

- One or more of the test data points was taken at a building pressure that differed by more than 2.5 Pascals from the target pressure.

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Comments

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