

# BUILDING LEAKAGE TEST

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Date of Test: 2/24/14

Test File: Building Leakage Final

Customer:

Technician: DCK

Project Number:

Building Address: 6 Front  
Bath, Maine

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## Test Results

- Airflow at 50 Pascals:  
(50 Pa = 0.2 w.c.)  
1278 CFM50  
9.35 ACH50  
0.9553 CFM50/ft<sup>2</sup> floor area  
0.6602 CFM50/ft<sup>2</sup> surface area
  - Leakage Areas:  
131.9 in<sup>2</sup> Canadian EqLA @ 10 Pa  
70.2 in<sup>2</sup> LBL ELA @ 4 Pa
  - Building Leakage Curve:  
Flow Coefficient (C) = 100.5  
Exponent (n) = 0.650 (Assumed)
  - Test Settings:  
Test Standard: CGSB  
Test Mode: Depressurization
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## Infiltration Estimates

- Estimated Average Annual Infiltration Rate:  
72.8 CFM  
0.53 ACH  
24.3 CFM per person  
(using bedrooms + 1)
  - Estimated Design Infiltration Rate:  
Winter: 119.9 CFM      Summer: 58.3 CFM  
0.88 ACH                      0.43 ACH
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## Mechanical Ventilation Guideline (based on ASHRAE 62.2-2010)

Recommended Whole Bldg Rate:	12.9 CFM
Base Rate:	35.9 CFM
Supplemental Rate:	0.0 CFM
Infiltration Credit:	<23.0 CFM>

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### Building Information

Volume	<b>8200</b>
Surface Area	<b>1936</b>
Floor Area	<b>1338</b>
Height	<b>16</b>
# of Bedrooms	<b>2</b>
# of Occupants	<b>2</b>
Year of Construction	
Wind Shield	<b>M</b>

### Location Climate Information

Ventilation Weather Factor	<b>0.91</b>
Energy Climate Factor	<b>19.00</b>
Heating Degree Days	<b>7378</b>
Cooling Degree Days	<b>66</b>
Design Winter Wind Speed	<b>9.0 mph</b>
Design Summer Wind Speed	<b>7.0 mph</b>
Design Winter Temp Diff	<b>71 deg F</b>
Design Summer Temp Diff	<b>9 deg F</b>

### Heating and Cooling Cost and Efficiency Information

Heating Fuel	<b>Oil</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	Model 3 (110V)		Default
<b>Micromanometer</b>	Energy Conservatory	DG700		

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**Depressurization Test:**

**Environmental Data**

<b>Indoor Temperature (°F)</b>	<b>Outdoor Temperature (°F)</b>
68.0	28.0

**Data Points - Data Entered Manually**

<b>Nominal Building Pressure (Pa)</b>	<b>Baseline Building Pressure (Pa)</b>	<b>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>
-4.0	n/a	n/a	n/a				
-50.0	-46.2		48.6	1263	1214	0.0	Ring A
-3.6	n/a		n/a				

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**Deviations from Standard CGSB - Test Parameters**

**- Test data was not collected at all 8 recommended target building pressures.**

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**Comments**

None

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