

# BUILDING LEAKAGE TEST

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Date of Test: 9/20/2018

Test File: MTL\_taped

Customer: Robbin Garber-Slaght  
1000 Fairbanks St

Technician: Conor Sosebee

Project Number:

Building Address: MTL

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## Test Results

- Airflow at 50 Pascals: 100 CFM50 ( +/- 1.0 %)  
(50 Pa = 0.2 w.c.) 3.76 ACH50
  - Leakage Area: 5.5 in2 LBL ELA @ 4 Pa
  - Building Leakage Curve: Flow Coefficient (C) = 6.1 ( +/- 6.6 %)  
Exponent (n) = 0.715 ( +/- 0.018 )  
Correlation Coefficient = 0.99967
  - Test Settings: Test Standard: RESNET Multi-Point Test  
Test Mode: Depressurization
  - Accuracy Level Standard Level of Accuracy Test
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## Infiltration Estimates

- Estimated Average Annual Infiltration Rate: 5.2 CFM  
0.19 ACH  
2.6 CFM per person
  - Estimated Design Infiltration Rate: Winter: 10.3 CFM Summer: 3.8 CFM  
0.39 ACH 0.14 ACH
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## Cost Estimates

- Estimated Cost of Air Leakage for Heating:
  - Estimated Cost of Air Leakage for Cooling:
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## Mechanical Ventilation Guideline (based on ASHRAE 62.2-2010)

Recommended Whole Bldg Rate: 17.0 CFM  
Base Rate: 17.0 CFM

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**Building Information**

Volume	<b>1600</b>
Surface Area	<b>912</b>
Floor Area	<b>200</b>
Height	<b>12</b>
# of Bedrooms	<b>1</b>
# of Occupants	<b>2</b>
Year of Construction	
Wind Shield	<b>M</b>

**Location Climate Information**

Ventilation Weather Factor	<b>0.90</b>
Energy Climate Factor	<b>17.00</b>
Heating Degree Days	<b>13980</b>
Cooling Degree Days	<b>12</b>
Design Winter Wind Speed	<b>0.8 mph</b>
Design Summer Wind Speed	<b>7.0 mph</b>
Design Winter Temp Diff	<b>111 deg F</b>
Design Summer Temp Diff	<b>2 deg F</b>

**Heating and Cooling Cost and Efficiency Information**

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

**Equipment Information**

<b>Type</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Serial Number</b>	<b>Custom Calibration Date</b>
<b>Fan</b>	Energy Conservatory	Model 3 (110V)		-
<b>Micromanometer</b>	Energy Conservatory	DG700	8988	2/6/2018

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**Depressurization Test:**

**Environmental Data**

<b>Indoor Temperature (°F)</b>	<b>Outdoor Temperature (°F)</b>	<b>Altitude (ft)</b>
65.0	55.0	500.0

**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>
-0.1	n/a	n/a				
-59.2	-59.0	26.1	114	112	-0.9	Ring C
-54.0	-53.8	23.4	108	105	-0.0	Ring C
-47.6	-47.4	19.6	98	96	0.0	Ring C
-42.5	-42.3	17.1	92	90	1.2	Ring C
-36.1	-35.8	13.6	81	80	1.1	Ring C
-30.1	-29.8	99.3	70	69	-0.8	Ring D
-23.5	-23.2	69.6	59	58	-0.6	Ring D
-17.4	-17.1	45.4	48	47	0.1	Ring D
-0.4	n/a	n/a				

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**Time Averaging Period: 7209065**

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**Deviations from Standard RESNET Multi-Point Test - Test Parameters**

None

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**Comments**

None

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