



BUILDING LEAKAGE TEST

Date of Test: 11/06/14

Test File: 621 Unit 104_06NOVEMBER14

Customer: SWMHP
2401 Broadway Ave
Slayton, MN 56172
Phone: 507-836-1613

Technician: Katherine Teiken

Project Number:

Building Address: Building 621
Unit 104
St. Peter, MN

Test Results

- Airflow at 50 Pascals:
(50 Pa = 0.2 w.c.)
609 CFM50 (+/- 0.9 %)
2.80 ACH50
0.3957 CFM50/ft² floor area
0.1457 CFM50/ft² surface area
 - Leakage Areas:
72.3 in² (+/- 2.9 %) Canadian EqLA @ 10 Pa
41.8 in² (+/- 4.8 %) LBL ELA @ 4 Pa
 - Building Leakage Curve:
Flow Coefficient (C) = 67.5 (+/- 7.7 %)
Exponent (n) = 0.562 (+/- 0.021)
Correlation Coefficient = 0.99584
 - Test Settings:
Test Standard: CGSB
Test Mode: Depressurization
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Infiltration Estimates

- Estimated Average Annual Infiltration Rate:
47.5 CFM
0.22 ACH
 - Estimated Design Infiltration Rate:
Winter: 68.1 CFM
0.31 ACH
Summer: 31.1 CFM
0.14 ACH
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Cost Estimates

- Estimated Cost of Air Leakage for Heating: \$ 46 per year heating
- Estimated Cost of Air Leakage for Cooling: \$ 2 per year cooling

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Building Information

Volume	13053
Surface Area	4177
Floor Area	1538
Height	16
# of Bedrooms	2
# of Occupants	
Year of Construction	2014
Wind Shield	H

Location Climate Information

Ventilation Weather Factor	1.00
Energy Climate Factor	16.00
Heating Degree Days	7809
Cooling Degree Days	380
Design Winter Wind Speed	9.0 mph
Design Summer Wind Speed	7.0 mph
Design Winter Temp Diff	81 deg F
Design Summer Temp Diff	16 deg F

Heating and Cooling Cost and Efficiency Information

Heating Fuel	Gas
Heating Fuel Cost	\$0.90/ccf
Heating Efficiency %	95.00
Cooling Fuel Cost	\$0.090/kwh
Cooling SEER	14.5

Equipment Information

Type	Manufacturer	Model	Serial Number	Custom Calibration Date
Fan	Energy Conservatory	Model 3 (110V)		-
Micromanometer	Energy Conservatory	DG700	37299-7	6/17/2013

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Depressurization Test:**Environmental Data**

Indoor Temperature (°F)	Outdoor Temperature (°F)
64.0	39.0

Data Points

Nominal Building Pressure (Pa)	Baseline Adjusted Building Pressure (Pa)	Fan Pressure (Pa)	Nominal Flow (cfm)	Adjusted Flow (cfm)	% Error	Fan Configuration
-15.0	n/a	n/a				
-67.8	-56.6	126.4	667	651	-0.2	Ring B
-57.6	-46.4	101.8	599	585	0.2	Ring B
-52.8	-41.6	92.6	572	558	1.7	Ring B
-48.3	-37.1	76.8	521	509	-1.2	Ring B
-43.3	-32.1	65.7	483	471	-0.7	Ring B
-39.8	-28.6	60.9	465	453	2.0	Ring B
-36.5	-25.4	46.8	408	398	-4.2	Ring B
-27.0	-15.8	31.2	334	326	2.4	Ring B
-7.4	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

Interior multi family unit
