BUILDING LEAKAGE TEST



Date of Test: 11/06/14 Test File: 621 Unit 105_06NOVEMBER14

Customer: SWMHP Technician: Katherine Teiken

2401 Broadway Ave Project Number:

Building Address: Building 621

Unit 105 St. Peter, MN

Test Results

1. Airflow at 50 Pascals: 534 CFM50 (+/- 1.2 %)

(50 Pa = 0.2 w.c.) 2.46 ACH50

Slayton, MN 56172 Phone: 507-836-1613

0.3474 CFM50/ft2 floor area 0.1279 CFM50/ft2 surface area

2. Leakage Areas: 56.7 in2 (+/- 3.0 %) Canadian EqLA @ 10 Pa

30.7 in2 (+/- 5.2 %) LBL ELA @ 4 Pa

3. Building Leakage Curve: Flow Coefficient (C) = 44.9 (+/-8.4 %)

Exponent (n) = 0.633 (± 0.024) Correlation Coefficient = 0.99586

4. Test Settings: Test Standard: CGSB

Test Mode: Depressurization

Infiltration Estimates

Estimated Average Annual Infiltration Rate: 34.9 CFM

0.16 ACH

2. Estimated Design Infiltration Rate: Winter: 50.0 CFM Summer: 22.9 CFM

0.23 ACH 0.11 ACH

Cost Estimates

Estimated Cost of Air Leakage for Heating:
 40 per year heating

2. Estimated Cost of Air Leakage for Cooling: \$ 2 per year cooling



Volume

Height

Surface Area

of Bedrooms

of Occupants
Year of Construction

Wind Shield

Floor Area

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Building Information

13053 4177 1538 16 2

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

Туре	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)		
68.0	38.0		

Data Points

Nominal Building Pressure (Pa)	Baseline Adjusted Building Pressure (Pa)	Fan Pressure (Pa)	Nominal Flow (cfm)	Adjusted Flow (cfm)	% Error	Fan Configuration	
-3.4	n/a	n/a					
-52.1	-48.6	83.3	543	527	0.5	Ring B	
-48.8	-45.2	77.6	524	509	1.5	Ring B	
-42.6	-39.1	60.1	462	448	-2.0	Ring B	
-36.7	-33.2	50.9	425	413	0.2	Ring B	
-32.3	-28.8	41.4	384	373	-1.2	Ring B	
-27.9	-24.3	31.4	335	325	-4.1	Ring B	
-23.2	-19.7	190.2	316	307	3.5	Ring C	
-19.1	-15.6	138.4	268	261	1.8	Ring C	
-3.7	n/a	n/a				-	

Deviations from Standard CGSB - Test Parameters

None



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Comments

Interior multi family unit