## **BUILDING LEAKAGE TEST**

		t: 12-6-2011 emkecraighton	Technician: Donald Jahnke				
Сι	istomer:	Dean Lemke 976 Finch Ave Hampton, IA 55031 Phone	Bu	ilding Address:	976 Finch Ave Hampton, IA 55031		
Те	st Result	S					
1.	Airflow at 50 Pascals: (50 Pa = 0.2 w.c.)		546 CFM ( +/- 0.2 %) 0.75 ACH 0.12 CFM per ft2 floor area				
2.	2. Leakage Areas:		51.3 in2 ( +/- 2.0 %) Canadian EqLA @ 10 Pa 25.9 in2 ( +/- 3.1 %) LBL ELA @ 4 Pa				
3.	Minneapolis Leakage Ratio:		0.07 CFM50 per ft2 surface area				
4.	<ol> <li>Building Leakage Curve:</li> </ol>		Flow Coefficient (C) = $34.2 (+-4.8 \%)$ Exponent (n) = $0.708 (+-0.012)$ Correlation Coefficient = $0.99927$				
5.	. Test Settings:		Test Standard: = CUSTOM Test Mode: = Depressurization Equipment = Model 3 Minneapolis Blower Door				
In	filtration	Estimates					
1.	Estimated Average Annual Infiltration Rate:			35.7 CFM 0.05 ACH 8.9 CFM per person (using bedrooms + 1)			
2.	Estimated Design Infiltration Ra		ate: Winter:	51.6 CFM 0.07 ACH			
			Summer:	23.5 CFM 0.03 ACH			
3. Recommended Whole Building Med Ventilation Rate: (based on ASHRA				75.7 CFM			
Co	ost Estim	ates					
1.	1. Estimated Cost of Air Leakage for Heating:			\$ 105 per year heating			
2.	Estimate	d Cost of Air Leakage	for Cooling:	\$ 1 per year cooling			

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## **Building Conditions**

Inside Temperature:	70 deg F	Heating Fuel:	Propane
Outside Temperature:	15 deg F	Heating Fuel Cost:	\$1.85/gallon
# of Stories	2.0	Heating Efficiency:	92.00
Wind Shield: # of Occupants	M 3.0	Heating Degree Days: Cooling Fuel Cost: Cooling SEER: Cooling Degree Days:	7910 \$0.080/kwh 16.0 267
# of Bedrooms: Volume: Surface Area: Floor Area:	3.0 43881 ft3 8158 ft2 4570 ft2	Ventilation Weather Factor: Energy Climate Factor:	1.01 17.0
Design Winter Wind Speed:	13.0 mph	Design Winter Temp Diff:	81 deg F
Design Summer Wind Speed:	7.0 mph	Design Summer Temp Diff:	13 deg F

## Comments

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## Data Points:

Nominal Building Pressure (Pa)	Fan Pressure (Pa)	Nominal Flow	Temperature Adjusted Flow	% Error	Fan Configuration	Baseline Std Dev (Pa)
-2.8	n/a					+/- 0.11
-37.9	59.6	460	435	0.9	Ring B	
-43.7	70.8	501	474	-1.2	Ring B	
-47.7	82.9	542	513	0.2	Ring B	
-53.0	97.2	586	555	0.2	Ring B	
-58.8	112.1	629	595	-0.3	Ring B	
-62.6	124.1	661	626	0.1	Ring B	
-67.3	138.4	698	661	0.1	Ring B	
-1.3	n/a				-	+/- 0.10