## **BUILDING LEAKAGE TEST**

Date of Test: 4-21-2011 Test File: Meyer-Bradley		Te	echnician: Donald Jahnke		
Custome	er: Todd Bradley 17472 20th St Oelwein, Iowa 50662 Phone	Bi	uilding Address: 17472 20th St		
Test Re	sults				
1. Airflow at 50 Pascals: 14   (50 Pa = 0.2 w.c.) 1.3   0.		1407 CFM ( +/- 0.5 %) 1.37 ACH D.23 CFM per ft2 floor area			
2. Leakage Areas: 140.8 in2 ( +/- 4.0 % 73.5 in2 ( +/- 6.2 %)		140.8 in2 ( +/- 4.0 % 73.5 in2 ( +/- 6.2 %)	b) Canadian EqLA @ 10 Pa LBL ELA @ 4 Pa		
3. Minneapolis Leakage Ratio:		0.13 CFM50 per ft2 surface area			
4. Build	ing Leakage Curve:	Flow Coefficient (C) = 102.5 (+/- 9.5 %) Exponent (n) = 0.670 (+/- 0.024) Correlation Coefficient = 0.99625			
5. Test	Settings:	Test Standard: = CUSTOM Test Mode: = Depressurization Equipment = Model 3 Minneapolis Blower Door			
Infiltrati	on Estimates				
1. Estimated Average Annual Infiltration Rate:			87.7 CFM 0.09 ACH 21.9 CFM per person		
2. Estimated Design Infiltration Rate: Winter:			113.0 CFM 0.11 ACH		
		Summer:	53.1 CFM 0.05 ACH		
3. Recommended Whole Building Mechanical Ventilation Rate: (based on ASHRAE 62.2)			90.2 CFM		
Cost Es	timates				
1. Estim	nated Cost of Air Leakage	for Heating:	\$ 111 per year heating		
2. Estim	nated Cost of Air Leakage	for Cooling:	\$ 4 per year cooling		

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## **Building Conditions**

Inside Temperature: Outside Temperature: # of Stories	65 deg F 45 deg F 1.0	Heating Fuel: Heating Fuel Cost: HSPF: Heating Degree Days:	Heat Pump \$0.100/kwh 9.20 7910
Wind Shield:	Μ	Cooling Fuel Cost:	\$0.100/kwh
# of Occupants	4.0	Cooling SEER: Cooling Degree Days:	16.0 267
# of Bedrooms:	3.0		
Volume:	61467 ft3	Ventilation Weather Factor:	1.01
Surface Area:	11010 ft2	Energy Climate Factor:	17.0
Floor Area:	6022 ft2		
Design Winter Wind Speed: Design Summer Wind Speed:	13.0 mph 7.0 mph	Design Winter Temp Diff: Design Summer Temp Diff:	81 deg F 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)	
-1.2	n/a					+/- 0.12	_
-36.1	39.6	1143	1121	1.2	Ring A		
-41.2	46.4	1235	1211	-0.0	Ring A		
-45.5	55.0	1341	1315	1.3	Ring A		
-50.4	61.2	1413	1386	-0.5	Ring A		
-55.6	67.8	1485	1457	-2.2	Ring A		
-60.6	77.6	1587	1556	-1.4	Ring A		
-65.9	90.5	1710	1677	0.3	Ring A		
-71.5	103.9	1829	1794	1.4	Ring A		
-1.2	n/a				2	+/- 0.33	

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