BUILDING LEAKAGE TEST

Date of Test: 12/22/21 Technician: Justin Cowen

Test File: 58-1825 Houston

Customer: Ultimate / Huston Building Address: 2316 Uphoff Road

Cottage Grove, WI 53527

Phone

Test Results

1. Airflow at 50 Pascals: 1983 CFM (+/- 0.4 %)

(50 Pa = 0.2 w.c.) 0.87 ACH

0.18 CFM per ft2 floor area

2. Leakage Areas: 174.7 in2 (+/- 3.5 %) Canadian EqLA @ 10 Pa

84.9 in2 (+/- 5.4 %) LBL ELA @ 4 Pa

3. Minneapolis Leakage Ratio: 0.09 CFM50 per ft2 surface area

4. Building Leakage Curve: Flow Coefficient (C) = 106.0 (+/- 8.4 %)

Exponent (n) = 0.749 (+/- 0.022)Correlation Coefficient = 0.99833

5. Test Settings: Test Standard: = CGSB

Test Mode: = Depressurization

Equipment = Model 3 Minneapolis Blower Door

Infiltration Estimates

Estimated Average Annual Infiltration Rate: 108.7 CFM

0.05 ACH

18.1 CFM per person

(using bedrooms + 1)

2. Estimated Design Infiltration Rate: Winter: 111.5 CFM

0.05 ACH

Summer: 61.3 CFM

0.03 ACH

3. Recommended Whole Building Mechanical

Ventilation Rate: (based on ASHRAE 62.2-2003)

157.9 CFM

Cost Estimates

1. Estimated Cost of Air Leakage for Heating: \$ 161 per year heating

2. Estimated Cost of Air Leakage for Cooling: \$ 42 per year cooling

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Building Conditions

Inside Temperature: 67 deg F Heating Fuel: Propane Outside Temperature: 25 deg F Heating Fuel Cost: \$1.10/gallon # of Stories 1.0 Heating Efficiency: 95.00 Heating Degree Days: 7673 Wind Shield: Cooling Fuel Cost: Μ \$0.990/kwh Cooling SEER: # of Occupants 5.0 13.0 Cooling Degree Days: 194 # of Bedrooms: 5.0 Volume: 137289 ft3 Ventilation Weather Factor: 0.91 Surface Area: 23315 ft2 Energy Climate Factor: 18.0 Floor Area: 11290 ft2 Design Winter Wind Speed: 9.0 mph Design Winter Temp Diff: 77 deg F Design Summer Wind Speed: 7.0 mph Design Summer Temp Diff: 13 deg F

Comments

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n/a

0.0

Data Points: Data Entered Manually						
Nominal Building Pressure (Pa)	Fan Pressure (Pa)	Nominal Flow	Temperature Adjusted Flow	% Error	Fan Configuration	Baseline Std Dev (Pa)
0.0	n/a					+/- 0.00
-33.8	74.7	1527	1465	-1.0	Ring A	
-41.4	105.7	1813	1739	1.0	Ring A	
-44.6	114.2	1884	1807	-0.7	Ring A	
-49.0	136.6	2059	1975	1.1	Ring A	
-54.9	158.2	2214	2124	-0.1	Ring A	
-59.8	179.1	2354	2258	-0.4	Ring A	

+/- 0.00