BUILDING LEAKAGE TEST

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

Test File: 58-1825 Houston with Garage

Customer: Ultimate / Huston with Garage Building Address: 2316 Uphoff Road

Cottage Grove, WI 53527

Phone

Test Results

1. Airflow at 50 Pascals: 2208 CFM (+/- 0.8 %)

(50 Pa = 0.2 w.c.) 0.86 ACH

0.17 CFM per ft2 floor area

2. Leakage Areas: 181.4 in2 (+/- 7.5 %) Canadian EqLA @ 10 Pa

84.7 in2 (+/- 11.7 %) LBL ELA @ 4 Pa

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

4. Building Leakage Curve: Flow Coefficient (C) = 99.6 (+/-18.1 %)

Exponent (n) = 0.792 (± 0.046) Correlation Coefficient = 0.99321

5. Test Settings: Test Standard: = CGSB

Test Mode: = Depressurization

Equipment = Model 3 Minneapolis Blower Door

Infiltration Estimates

Estimated Average Annual Infiltration Rate: 107.9 CFM

0.04 ACH

18.0 CFM per person

(using bedrooms + 1)

2. Estimated Design Infiltration Rate: Winter: 111.3 CFM

0.04 ACH

Summer: 61.1 CFM

0.02 ACH

3. Recommended Whole Building Mechanical

Ventilation Rate: (based on ASHRAE 62.2-2003)

173.1 CFM

Cost Estimates

1. Estimated Cost of Air Leakage for Heating: \$ 179 per year heating

2. Estimated Cost of Air Leakage for Cooling: \$ 47 per year cooling

BUILDING LEAKAGE TEST Page 2

Date of Test: 12/22/21 Test File: 58-1825 Houston with Garage

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: M \$0.990/kwh Cooling SEER: # of Occupants 5.0 13.0 Cooling Degree Days: 194 # of Bedrooms: 5.0 Volume: 154897 ft3 Ventilation Weather Factor: 0.91 Surface Area: 23784 ft2 Energy Climate Factor: 18.0 Floor Area: 12808 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

BUILDING LEAKAGE TEST Page 3

Date of Test: 12/22/21 Test File: 58-1825 Houston with Garage

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
-36.7	106.4	1819	1745	0.9	Ring A	
-39.1	116.8	1905	1827	0.5	Ring A	
-45.6	147.5	2138	2051	-0.1	Ring A	
-52.9	177.7	2345	2250	-2.6	Ring A	
-54.3	192.3	2438	2339	-0.8	Ring A	
-59.8	31.7	2706	2596	2.0	Open	
0.0	n/a					+/- 0.00