

BUILDING LEAKAGE TEST

Jacksonville Building Science, LLC
450-106 State Rd 13 N
Suite 132
Jacksonville, FL 32259
Phone: 904-807-3540
Fax: 866-678-6204

Date of Test: October 21, 2014

Technician: Michael O'Donoghue

Test File:

Customer:

Building Address:

Ponte vedra, FL

Test Results

- Airflow at 50 Pascals:
(50 Pa = 0.2 w.c.)
1828 CFM (+/- 0.4 %)
2.43 ACH
0.44 CFM per ft² floor area
- Leakage Areas:
194.9 in² (+/- 1.1 %) Canadian EqLA @ 10 Pa
105.6 in² (+/- 1.9 %) LBL ELA @ 4 Pa
- Minneapolis Leakage Ratio: 0.44 CFM₅₀ per ft² surface area
- Building Leakage Curve:
Flow Coefficient (C) = 155.5 (+/- 3.1 %)
Exponent (n) = 0.630 (+/- 0.009)
Correlation Coefficient = 0.99942
- Test Settings:
Test Standard: = CGSB
Test Mode: = Depressurization
Equipment = Model 3 Minneapolis Blower Door, S/N 120098-1

Infiltration Estimates

- Estimated Average Annual Infiltration Rate:
125.0 CFM
0.17 ACH
20.8 CFM per person
- Estimated Design Infiltration Rate:
Winter: 145.0 CFM
0.19 ACH
Summer: 106.4 CFM
0.14 ACH
- Recommended Whole Building Mechanical
Ventilation Rate: (based on ASHRAE 62.2) 66.3 CFM

Cost Estimates

- Estimated Cost of Air Leakage for Heating:
- Estimated Cost of Air Leakage for Cooling:

BUILDING LEAKAGE TEST Page 2

Date of Test: October 21, 2014 Test File:

Building Conditions

Inside Temperature:	72 deg F	Heating Fuel:	Heat Pump
Outside Temperature:	80 deg F	Heating Fuel Cost:	\$0.085/kwh
# of Stories	2.0	HSPF:	
		Heating Degree Days:	1124
Wind Shield:	M	Cooling Fuel Cost:	\$0.085/kwh
# of Occupants	6.0	Cooling SEER:	
		Cooling Degree Days:	1624
# of Bedrooms:	5.0		
Volume:	45216 ft3	Ventilation Weather Factor:	0.77
Surface Area:	4191 ft2	Energy Climate Factor:	23.0
Floor Area:	4191 ft2		
Design Winter Wind Speed:	9.0 mph	Design Winter Temp Diff:	38 deg F
Design Summer Wind Speed:	7.0 mph	Design Summer Temp Diff:	19 deg F

Comments

BUILDING LEAKAGE TEST Page 3

Date of Test: October 21, 2014 Test File:

Data Points:

Nominal Building Pressure (Pa)	Fan Pressure (Pa)	Nominal Flow	Temperature Adjusted Flow	% Error	Fan Configuration	Baseline Std Dev (Pa)
-0.3	n/a					+/- 0.19
-50.0	102.7	1819	1832	0.5	Ring A	
-45.3	89.7	1703	1716	0.3	Ring A	
-39.8	75.0	1561	1573	-0.3	Ring A	
-34.3	60.8	1409	1419	-1.0	Ring A	
-31.0	53.2	1320	1330	-1.1	Ring A	
-25.5	42.4	1181	1190	0.3	Ring A	
-20.4	32.4	1037	1044	1.4	Ring A	
-15.0	201.1	840	846	0.1	Ring B	
-0.3	n/a					+/- 0.08