

BUILDING LEAKAGE TEST

Date of Test: 6/16/2021

Test File: Hammel june 2021

Customer: Al Hammel
7215 Lone Oak Trail
Grant, Mn

Technician: Don Jahnke

Project Number:

Building Address:

Test Results

- Airflow at 50 Pascals:
(50 Pa = 0.2 w.c.)
451 CFM50 (+/- 2.2 %)
0.35 ACH50
0.0852 CFM50/ft² floor area
0.0451 CFM50/ft² surface area
 - Leakage Areas:
51.1 in² (+/- 10.4 %) Canadian EqLA @ 10 Pa
28.7 in² (+/- 17.4 %) LBL ELA @ 4 Pa
 - Building Leakage Curve:
Flow Coefficient (C) = 44.5 (+/- 28.0 %)
Exponent (n) = 0.592 (+/- 0.077)
Correlation Coefficient = 0.98369
 - Test Settings:
Test Standard: CGSB
Test Mode: Depressurization
-

Infiltration Estimates

- Estimated Average Annual Infiltration Rate:
28.3 CFM
0.02 ACH
1.2 CFM per person
(using bedrooms + 1)
 - Estimated Design Infiltration Rate:
Winter: 37.6 CFM
0.03 ACH
Summer: 33.5 CFM
0.03 ACH
-

Cost Estimates

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

BUILDING LEAKAGE TEST Page 2 of 4Date of Test: 6/16/2021 Test File: Hammel june 2021

Building Information

Volume	78264
Surface Area	10000
Floor Area	5299
Height	11
# of Bedrooms	22
# of Occupants	2
Year of Construction	
Wind Shield	M

Location Climate Information

Ventilation Weather Factor	0.97
Energy Climate Factor	17.00
Heating Degree Days	7876
Cooling Degree Days	315
Design Winter Wind Speed	8.4 mph
Design Summer Wind Speed	13.4 mph
Design Winter Temp Diff	81 deg F
Design Summer Temp Diff	13 deg F

Heating and Cooling Cost and Efficiency Information

Heating Fuel	Gas
Heating Fuel Cost	
Heating Efficiency %	
Cooling Fuel Cost	
Cooling SEER	

Equipment Information

Type	Manufacturer	Model	Serial Number	Custom Calibration Date
Fan	Energy Conservatory	Model 3 (110V)		-
Micromanometer	Energy Conservatory	DG700	30445	10/29/2018

BUILDING LEAKAGE TEST Page 3 of 4Date of Test: 6/16/2021 Test File: Hammel june 2021

Depressurization Test:**Environmental Data**

Indoor Temperature (°F)	Outdoor Temperature (°F)
70.0	78.0

Data Points - Automated Test (TT 4.0.53.0)

Nominal Building Pressure (Pa)	Baseline Building Pressure (Pa)	Adjusted Building Pressure (Pa)	Fan Pressure (Pa)	Nominal Flow (cfm)	Adjusted Flow (cfm)	% Error	Fan Configuration
-0.1	n/a	n/a	n/a				
-44.0	-43.5		49.6	420	423	1.7	Ring B
-42.1	-41.6		43.9	395	398	-1.7	Ring B
-36.6	-36.1		37.7	366	369	-0.9	Ring B
-31.3	-30.9		32.3	340	342	0.9	Ring B
-0.9	n/a	n/a	n/a				

Deviations from Standard CGSB - Test Parameters

- Correlation coefficient (0.984) outside of acceptable limits.
 - One or more of the test data points was taken at a building pressure that differed by more than 2.5 Pascals from the target pressure.
 - Test data was not collected at all 8 recommended target building pressures.
 - The % Error of the Equivalent Leakage Area is greater than or equal to 7.0%
-

BUILDING LEAKAGE TEST Page 4 of 4

Date of Test: 6/16/2021 Test File: Hammel june 2021

Comments

None
