

BUILDING LEAKAGE TEST

Date of Test: 1
Test File: Degen Blower Door

Technician: Philip Kerrigan

Customer: Byron Degen

Building Address: 7519 Sands Terrace Lane
Spring, TX 77389

Phone

Test Results

- Airflow at 50 Pascals:
(50 Pa = 0.2 w.c.)
936 CFM (+/- 0.5 %)
0.99 ACH
0.26 CFM per ft2 floor area
 - Leakage Areas:
90.5 in2 (+/- 1.2 %) Canadian EqLA @ 10 Pa
46.3 in2 (+/- 2.1 %) LBL ELA @ 4 Pa
 - Minneapolis Leakage Ratio: 0.08 CFM50 per ft2 surface area
 - Building Leakage Curve:
Flow Coefficient (C) = 62.7 (+/- 3.4 %)
Exponent (n) = 0.691 (+/- 0.010)
Correlation Coefficient = 0.99941
 - Test Settings:
Test Standard: = CGSB
Test Mode: = Depressurization
Equipment = Model 3 Minneapolis Blower Door
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Infiltration Estimates

- Estimated Average Annual Infiltration Rate:
67.1 CFM
0.07 ACH
16.8 CFM per person
(using bedrooms + 1)
 - Estimated Design Infiltration Rate:
Winter: 60.0 CFM
0.06 ACH
Summer: 36.8 CFM
0.04 ACH
 - Recommended Whole Building Mechanical
Ventilation Rate: (based on ASHRAE 62.2-2003) 66.6 CFM
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Cost Estimates

- Estimated Cost of Air Leakage for Heating: \$ 0 per year heating
- Estimated Cost of Air Leakage for Cooling: \$ 0 per year cooling

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Building Conditions

Inside Temperature:	76 deg F	Heating Fuel:	Gas
Outside Temperature:	94 deg F	Heating Fuel Cost:	
# of Stories	1.0	Heating Efficiency:	92.00
		Heating Degree Days:	1485
Wind Shield:	M	Cooling Fuel Cost:	
# of Occupants	2.0	Cooling SEER:	14.0
		Cooling Degree Days:	1796
# of Bedrooms:	3.0		
Volume:	56520 ft3	Ventilation Weather Factor:	0.81
Surface Area:	11390 ft2	Energy Climate Factor:	18.0
Floor Area:	3659 ft2		
Design Winter Wind Speed:	13.0 mph	Design Winter Temp Diff:	37 deg F
Design Summer Wind Speed:	7.0 mph	Design Summer Temp Diff:	20 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					+/- 0.06
-39.8	184.8	804	818	1.0	Ring B	
-39.9	180.2	794	807	-0.5	Ring B	
-39.0	173.5	779	792	-0.9	Ring B	
-33.7	146.5	715	727	0.4	Ring B	
-29.0	119.5	645	656	0.1	Ring B	
-24.6	96.6	579	589	0.3	Ring B	
-19.2	68.2	485	494	-0.7	Ring B	
-14.1	46.5	400	406	0.2	Ring B	
0.4	n/a					+/- 0.07