
Date of Test: 10/28/2019

Test File: Miller Cabin EPS

Customer: Energy Panel Structures
603 N. Van Gordon Ave.
Graettinger , IA 51342
Phone: 800.967.2130

Technician: JL

Project Number: Miller Cabin Ely MN

Building Address: Miller Cabin
2935 Vanvac Road
Ely, MN 55731

Test Results

- | | |
|---|--|
| 1. Airflow at 50 Pascals:
(50 Pa = 0.2 w.c.) | 377 CFM50 (+/- 1.1 %)
1.41 ACH50 |
| 2. Leakage Area: | 20.7 in2 LBL ELA @ 4 Pa |
| 3. Building Leakage Curve: | Flow Coefficient (C) = 28.3 (+/- 8.3 %)
Exponent (n) = 0.662 (+/- 0.023)
Correlation Coefficient = 0.99941 |
| 4. Test Settings: | Test Standard: RESNET Multi-Point Test
Test Mode: Depressurization |
| 5. Accuracy Level | Standard Level of Accuracy Test |
-

Infiltration Estimates

- | | | |
|--|--|------------------------------|
| 1. Estimated Average Annual Infiltration Rate: | 23.1 CFM
0.09 ACH
7.7 CFM per person
(using bedrooms + 1) | |
| 2. Estimated Design Infiltration Rate: | Winter: 36.8 CFM
0.14 ACH | Summer: 22.7 CFM
0.09 ACH |
-

Cost Estimates

1. Estimated Cost of Air Leakage for Heating:
2. Estimated Cost of Air Leakage for Cooling:

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Building Information

Volume	16000
Surface Area	
Floor Area	1505
Height	16
# of Bedrooms	2
# of Occupants	2
Year of Construction	2019
Wind Shield	M

Location Climate Information

Ventilation Weather Factor	0.98
Energy Climate Factor	16.00
Heating Degree Days	10269
Cooling Degree Days	65
Design Winter Wind Speed	5.4 mph
Design Summer Wind Speed	10.6 mph
Design Winter Temp Diff	93 deg F
Design Summer Temp Diff	8 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	Duct Blaster B		-
Micromanometer	Energy Conservatory	DG700	38722	4/11/2017

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Depressurization Test:

Environmental Data

Indoor Temperature (°F)	Outdoor Temperature (°F)	Altitude (ft)
55.0	30.0	800.0

Data Points - Automated Test (TT 4.0.53.0)

Nominal Building Pressure (Pa)	Baseline Adjusted Building Pressure (Pa)	Fan Pressure (Pa)	Nominal Flow (cfm)	Adjusted Flow (cfm)	% Error	Fan Configuration
-2.4	n/a	n/a				
-61.2	-59.6	119.1	450	428	1.1	Ring 1
-56.7	-55.1	106.6	426	404	0.7	Ring 1
-49.6	-48.0	85.5	381	362	-1.4	Ring 1
-43.9	-42.3	74.4	355	337	0.1	Ring 1
-37.9	-36.3	59.7	318	302	-1.0	Ring 1
-32.7	-31.1	48.8	287	273	-0.7	Ring 1
-26.0	-24.4	36.6	248	236	0.8	Ring 1
-20.4	-18.8	25.9	209	198	0.4	Ring 1
-0.8	n/a	n/a				

Time Averaging Period: 10

Deviations from Standard RESNET Multi-Point Test - Test Parameters

None

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Comments

Mn Energy Code Air Leakage Rate Test
