

BUILDING LEAKAGE TEST

Date of Test: 2-11-11
Test File: 11-RSR-090-02 29070 Dinsmore Ave

Technician: Josh

Customer: 11-RSR-090-02
29070 Dinsmore Ave
Randolph, MN 55065
Phone

Building Address: 29070 Dinsmore Ave
Randolph, MN 55065

Test Results

- Airflow at 50 Pascals: 308 CFM
(50 Pa = 0.2 w.c.)
 - Leakage Areas: 31.8 in² Canadian EqLA @ 10 Pa
16.9 in² LBL ELA @ 4 Pa
 - Minneapolis Leakage Ratio: 0.00 CFM₅₀ per ft² surface area
 - Building Leakage Curve: Flow Coefficient (C) = 24.2
Exponent (n) = 0.650 (Assumed)
 - Test Settings: Test Standard: = CUSTOM
Test Mode: = Depressurization
Equipment = Model 3 Minneapolis Blower Door
-

Infiltration Estimates

- Estimated Average Annual Infiltration Rate:
- Estimated Design Infiltration Rate:

Cost Estimates

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

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Building Conditions

| | | | |
|---------------------------|----------|-----------------------------|-------------|
| Inside Temperature: | 65 deg F | Heating Fuel: | Gas |
| Outside Temperature: | 30 deg F | Heating Fuel Cost: | \$1.20/ccf |
| # of Stories | | Heating Efficiency: | 92.00 |
| | | Heating Degree Days: | 7981 |
| Wind Shield: | M | Cooling Fuel Cost: | \$0.080/kwh |
| # of Occupants | | Cooling SEER: | 13.0 |
| | | Cooling Degree Days: | 330 |
| # of Bedrooms: | | | |
| Volume: | | Ventilation Weather Factor: | 0.97 |
| Surface Area: | | Energy Climate Factor: | 17.0 |
| Floor Area: | | | |
| Design Winter Wind Speed: | 9.0 mph | Design Winter Temp Diff: | 82 deg F |
| Design Summer Wind Speed: | 7.0 mph | Design Summer Temp Diff: | 14 deg F |

Comments

At the time of testing this house had a leakage rate for 308 cfm @ 50 Pa. A typical house of this size on average would have a leakage rate of 700 to 1000 cfm @ 50 Pa. The lower the leakage rate the tighter the house is constructed. A tighter house will save money on utility bills and increase home owner comfort.

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Data Points: Data Entered Manually

| Nominal Building Pressure (Pa) | Fan Pressure (Pa) | Nominal Flow | Temperature Adjusted Flow | % Error | Fan Configuration | Baseline Std Dev (Pa) |
|--------------------------------|-------------------|--------------|---------------------------|---------|-------------------|-----------------------|
| -4.0 | n/a | | | | | +/- 0.00 |
| -50.0 | 189.1 | 315 | 304 | 0.0 | Ring C | |
| 2.0 | n/a | | | | | +/- 0.00 |