

# BUILDING LEAKAGE TEST

Future Energy Dynamics

Date of Test: 7/31/2025      Test File: 40-60pa test (save in address folder after test)

Technician:

Project Number:

Customer:

Building Address: 3205 Nucor Rd

## Test Results at 50 Pascals:

cfm50 Airflow	1601 (+/- 2.4 %)
ACH50	1.05
cfm/ft <sup>2</sup> (Floor Area)	0.2555

## Leakage Areas:

121.1 in<sup>2</sup> (+/- 29.3 %) Canadian EqLA @ 10 Pa  
54.0 in<sup>2</sup> (+/- 46.3 %) LBL ELA @ 4 Pa

## Building Leakage Curve:

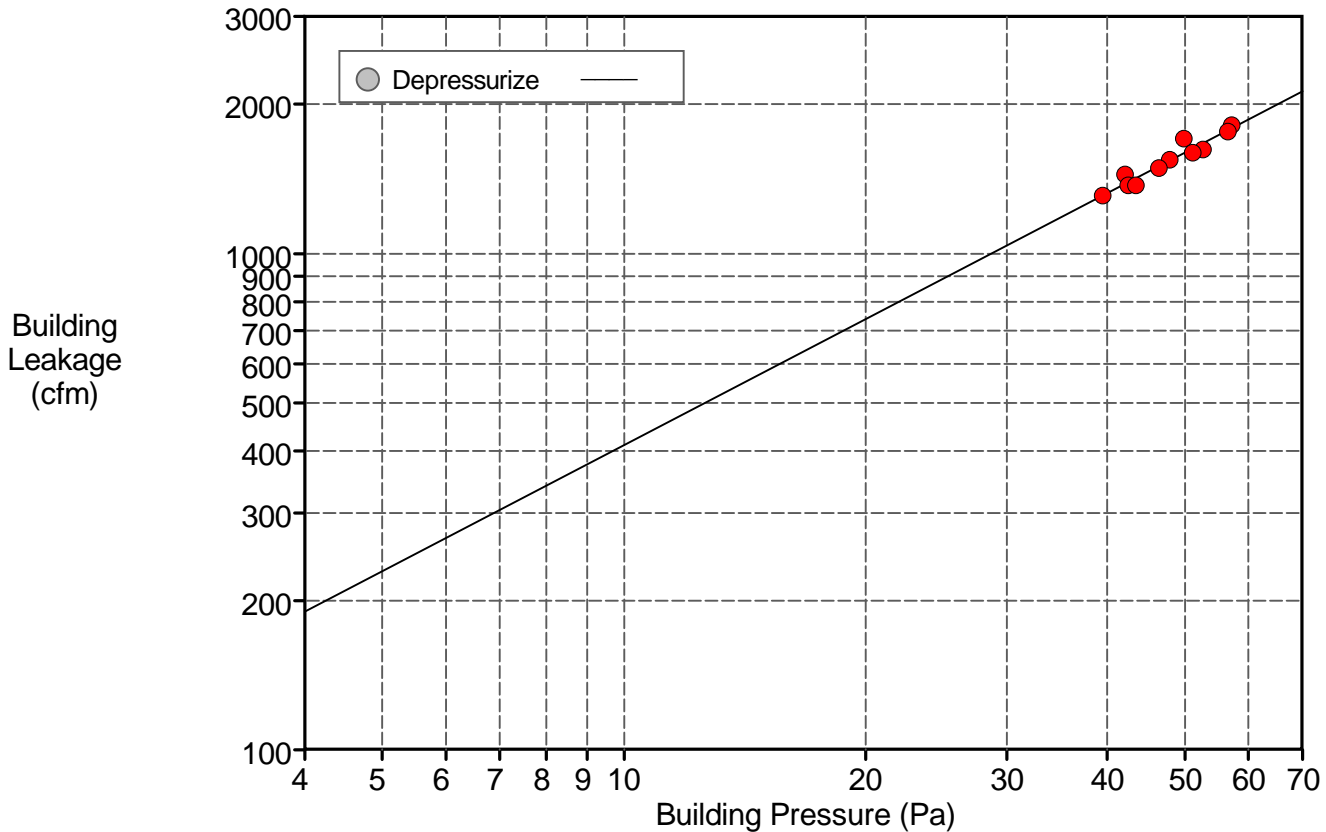
Flow Coefficient (C) = 59.1 (+/- 72.2 %)  
Exponent (n) = 0.843 (+/- 0.187)  
Correlation Coefficient = 0.95950

Test Standard:

E779-10

Test Mode:

Depressurization



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### Building Information

<b>Volume (ft<sup>3</sup>)</b>	91666
<b>Surface Area: (ft<sup>2</sup>)</b>	
<b>Floor Area: (ft<sup>2</sup>)</b>	6266
<b>Height (ft)</b>	18
<b>Year of Construction</b>	

### Equipment Information

<b>Type</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Serial Number</b>	<b>Custom Calibration Date</b>
<b>Fan</b>	Energy Conservatory	Model 3 (110V)		-
<b>Micromanometer</b>	Energy Conservatory	DG1000	6988	12/30/2024

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### Depressurization Test:

#### Environmental Data

	Indoor Temperature (°F)	Outdoor Temperature (°F)	Altitude (ft)
Pre-Test	72.0	74.0	
Post-Test	72.0	74.0	
Average	72.0	74.0	1590.0

### Data Points - Automated Test (TTE 5.0.8.4)

Nominal Building Pressure (Pa)	Baseline adjusted Building Pressure (Pa)	Fan Pressure (Pa)	Nominal Flow (cfm)	Adjusted Flow (cfm)	% Error	Fan Configuration
0.1	n/a	n/a				
-57.6	-57.2	96.1	1761	1817	1.3	Ring A
-56.9	-56.5	90.3	1708	1762	-0.8	Ring A
-50.2	-49.9	84.5	1654	1707	6.9	Ring A
-53.0	-52.6	76.2	1573	1623	-2.9	Ring A
-51.5	-51.2	73.6	1546	1595	-2.3	Ring A
-48.3	-47.9	69.0	1498	1546	0.1	Ring A
-46.8	-46.4	63.6	1440	1485	-1.1	Ring A
-42.5	-42.1	60.1	1400	1445	4.3	Ring A
-42.8	-42.5	54.2	1332	1374	-1.5	Ring A
-43.8	-43.4	54.1	1331	1373	-3.4	Ring A
-39.9	-39.5	49.1	1269	1309	-0.2	Ring A
-0.9	n/a	n/a				

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### Deviations from Standard ASTM E779-10 - Test Parameters

- Correlation coefficient (0.959) outside of acceptable limits.
  - Pressurization test not included.
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**Comments**

None

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