

Envelope Leakage Test



Testing Company:

Name: Lord Building Solutions
Address: 60 Browns Way
North Yarmouth, ME 04097
Phone: 207-870-7391
LordBuildingSolutions.com

Technician:

Name: Alexander Lord
Credentials: BPI Building Analyst - Technician
#5071248
Email: AlexL@LordBuildingSolutions.com

Building Information:

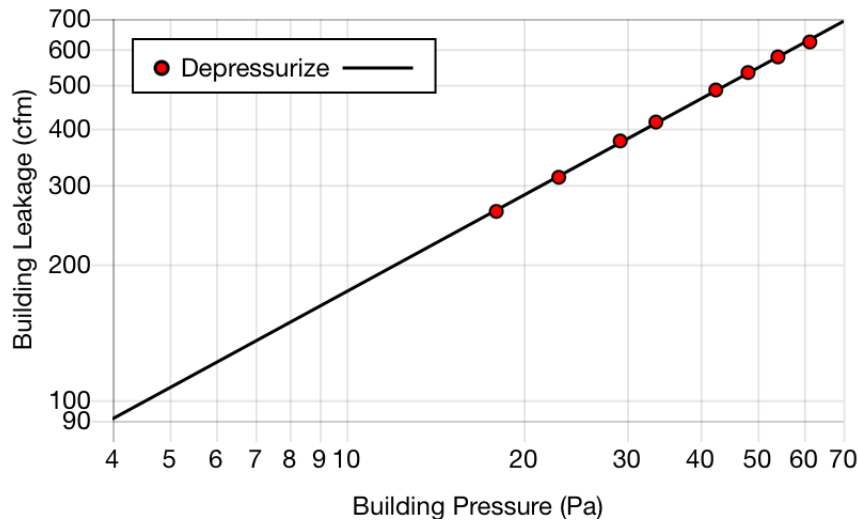
Project ID: [REDACTED]
Address: [REDACTED]
Year Built: 2024
Geo-Tag Data: Latitude:
Longitude:
Timestamp:

Customer Information:

Name: [REDACTED]
Address: [REDACTED]

Measured Leakage: 0.74 ACH50
Leakage Target: 1.00 ACH50
Compliance with Leakage Target: Pass

Test ID: [REDACTED]
Purpose of Test: Envelope (IECC)
Measured CFM50: 544.3 (+/- 0.9%) Effective Leakage Area: 25.8 in²
Building Volume: 44,154.0 ft³ Enclosure Surface Area: 0.0 ft²
Coefficient (C): 34.0 (+/- 6.0%) Exponent (n): 0.709 (+/- 0.017)
Correlation Coefficient: 0.99972
Test Standard: ASTM E779 (single mode) Test Mode: Depressurize
Test Characteristics: Pre Indoor Temp: 72 °F Post Indoor Temp: 72 °F
Pre Outdoor Temp: 52 °F Post Outdoor Temp: 52 °F
Altitude: 101.0 ft Time Average Period: 10 seconds
Test Date and Time: 2024-10-25 10:08:04



Envelope Leakage Test

Test Readings:

<u>Target (Pa)</u>	<u>Bldg (Pa)</u>	<u>Adj Bldg (Pa)</u>	<u>Fan (Pa)</u>	<u>Flow (cfm)</u>	<u>Config</u>
Baseline	-0.3				
-60.0	-61.9	-61.4	-117.7	644.2	Ring B
-54.0	-54.7	-54.2	-100.9	596.9	Ring B
-48.0	-48.7	-48.2	-85.9	551.0	Ring B
-42.0	-43.0	-42.5	-71.8	504.2	Ring B
-36.0	-34.1	-33.6	-51.6	428.0	Ring B
-30.0	-29.7	-29.2	-42.4	388.6	Ring B
-24.0	-23.5	-23.0	-29.2	322.9	Ring B
-18.0	-18.5	-18.0	-141.4	271.2	Ring C
Baseline	-0.8				

Test Equipment:

Flow Device: Model 3 110V Fan
Pressure Gauge: DG1000
Serial #: 16135
Calibration Date: 2024-03-13

Deviations from Standard:

- None
-

Envelope Leakage Test

Comments:

Construction Stage: Post Drywall (no tape or mud); some exposed blown-in insulation in the building envelope (sunroom ceiling & kitchen cabinet wall)

Test conditions:

Fan location - Man Door from Garage (1st floor)

Weather: Sunny, light wind, low humidity, 72 degree indoor temp, 52 degree outdoor temp

Elevation: 101'

Notes:

- 1 exterior door not installed (front of house). Temporary door seams were taped with Zip Tape.
- No interior doors installed
- Plumbing vents and traps taped off
- Windows & exterior doors closed and locked
- Continuous ventilation ducts (ERV) taped off
- Approximately 200 CFM of leakage measured in the window units through pressurized diagnostic testing prior to this depressurization test