#### **BUILDING LEAKAGE TEST**

Date of Test: 5/19/2019 Test File: loosebrock final

Customer: Broadview Builders Technician: Donald Jahnke

9050 N Hwy Dr Project Number: Loosebrock Residence Circle Pines, Mn 55014

Building Address: 4535 Lakeshore Place

Arden Hills, MN

**Test Results** 

1. Airflow at 50 Pascals: 242 CFM50 (50 Pa = 0.2 w.c.) 0.48 ACH50

0.0755 CFM50/ft2 floor area

2. Leakage Areas: 24.9 in 2 Canadian EqLA @ 10 Pa

13.3 in 2 LBL ELA @ 4 Pa

3. Building Leakage Curve: Flow Coefficient (C) = 19.0

Exponent (n) = 0.650 (Assumed)

4. Test Settings: Test Standard: CGSB

Test Mode: Depressurization

**Infiltration Estimates** 

1. Estimated Average Annual Infiltration Rate: 18.1 CFM

0.04 ACH

4.5 CFM per person

(using bedrooms + 1)

2. Estimated Design Infiltration Rate: Winter: 27.3 CFM Summer: 17.1 CFM

0.05 ACH 0.03 ACH

**Cost Estimates** 

1. Estimated Cost of Air Leakage for Heating:

2. Estimated Cost of Air Leakage for Cooling:

## **BUILDING LEAKAGE TEST** Page 2 of 4

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## **Building Information**

#### **Location Climate Information**

Volume	30221
Surface Area	
Floor Area	3200
Height	32
# of Bedrooms	3
# of Occupants	3
Year of Construction	2019
Wind Shield	S

Ventilation Weather Factor	0.97
Energy Climate Factor	17.00
Heating Degree Days	7876
Cooling Degree Days	315
Design Winter Wind Speed	8.4 mph
Design Summer Wind Speed	13.4 mph
Design Winter Temp Diff	81 deg F
Design Summer Temp Diff	13 deg F

### **Heating and Cooling Cost and Efficiency Information**

Heating Fuel	Gas
Heating Fuel Cost	
Heating Efficiency %	94.00
Cooling Fuel Cost	
Cooling SEER	30.5

## **Equipment Information**

Туре	Manufacturer	Model	Serial Number	<b>Custom Calibration Date</b>
Fan	Energy Conservatory	Model 3 (110V)		Default
Micromanometer	Energy Conservatory	DG700		

## **BUILDING LEAKAGE TEST** Page 3 of 4

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#### **Depressurization Test:**

#### **Environmental Data**

Indoor Temperature (°F)	Outdoor Temperature (°F)		
68.0	55.0		

#### **Data Points - Data Entered Manually**

Buildin	ominal g Pressure (Pa)	Baseline Adjusted Building Pressure (Pa)	Fan Pressure (Pa)	Nominal Flow (cfm)	Adjusted Flow (cfm)	% Error	Fan Configuration	
	0.4 -50.0 0.4	n/a -50.4 n/a	n/a 116.9 n/a	246	243	0.0	Ring C	

#### **Deviations from Standard CGSB - Test Parameters**

- Test data was not collected at all 8 recommended target building pressures.

# BUILDING LEAKAGE TEST Page 4 of 4

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	Comments		
None			