

# BUILDING LEAKAGE TEST

Date of Test: 16/01/21

Technician: Aston Mckay

Test File: Plot 7

Customer: W. Stirland Ltd  
Redmoor Estate  
Main Road  
Chichester, West Sussex PO20 7HT  
Phone: 01243 512381  
Fax:

Building Address: Ground Floor Apartment  
Plot 7 ( Pressurize )  
Pamber Heath Road  
Pamber, Tadley, Hampshire RG26 3TH

## Test Results at 50 Pascals:

V50: Airflow (m<sup>3</sup>/h) 182 ( +/- 0.7 %)

n50: Air Changes per Hour (1/h) 1.42

w50:

q50:

## Leakage Areas:

77.8 cm<sup>2</sup> ( +/- 2.7 % ) Canadian EqLA @ 10 Pa

43.4 cm<sup>2</sup> ( +/- 4.3 % ) LBL ELA @ 4 Pa

## Building Leakage Curve:

Air Flow Coefficient (Cenv) = 17.7 ( +/- 6.8 % )

Air Leakage Coefficient (CL) = 17.6 ( +/- 6.8 % )

Exponent (n) = 0.597 ( +/- 0.018 )

Correlation Coefficient = 0.99627

Test Standard:

EN 13829 Test Mode:

Pressurization

Type of Test Method:

B

Regulation complied with:

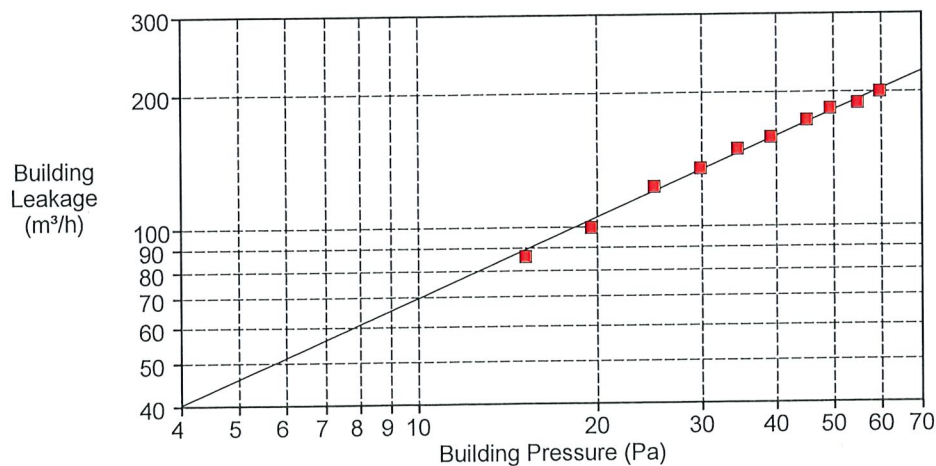
ADL1A - 2013

Equipment:

Model 3 Minneapolis Blower Door, S/N 12596

Inside Temperature: 23 °C  
Outside Temperature: 8 °C  
Barometric Pressure: 101421 Pa  
Wind Class: 1 Light Air  
Building Wind Exposure: Highly Protected Building  
Type of Heating: Gas  
Type of Air Conditioning: None  
Type of Ventilation: MVHR

Volume: 128 m<sup>3</sup>  
Surface Area:  
Floor Area:  
Uncertainty of  
Building Dimensions: 5 %  
Year of Construction: 2021



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### Comments

#### Pre Test

- Open Extractors shut and sealed
  - External doors and windows shut tight
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### Data Points: Depressurization:

Nominal Building Pressure (Pa)	Fan Pressure (Pa)	Nominal Flow (m <sup>3</sup> /h)	Temperature Adjusted Flow (m <sup>3</sup> /h)	% Error	Fan Configuration
0.7	n/a				
15.9	44.5	84	86	-3.6	Ring D
20.3	60.1	97	100	-4.0	Ring D
30.6	111.0	131	135	0.8	Ring D
40.0	153.5	154	158	0.5	Ring D
50.1	206.9	179	183	1.5	Ring D
60.5	25.5	195	200	-1.3	Ring C
55.6	219.1	184	189	-2.0	Ring D
45.8	183.4	168	173	1.0	Ring D
35.2	135.8	145	149	2.2	Ring D
25.7	91.8	120	123	2.2	Ring D
0.8	n/a				
Test 0 Baseline (Pa):		p01- = 0.0	p01+ = 0.7	p02- = 0.0	p02+ = 0.8