

BCTS

BUILDING COMPLETION TESTING SERVICES



INAB Accredited Air Tightness Test Report

Report Number : 7694

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INAB ACCREDITED AIRTIGHTNESS TEST REPORT

REPORT NUMBER 7694 (30350)

INAB ISO 17025 REGISTRATION NUMBER: 390T

| DATE OF TEST: | PERFORMED FOR: | PERFORMED BY: | OPERATOR LOCATION: |
|---------------|-------------------------------------|------------------|--------------------|
| 22/07/2024 | Meegan Builders (Castleblayney) Ltd | Raymond Mc Kenna | Inside |

BUILDING DETAILS:

| | | | | | |
|--------------------------------|--|---------------------|------------------|-------------------|------------------|
| Site address: | Site_10 10 Listoke Willows Ballymakenny Drogheda | | | | |
| Building Type: | Duplex | | | | |
| Construction: | Traditional | | | | |
| Measurements: | Building volume [m³]: | Envelope Area [m²]: | Floor Area [m²]: | Storeys: | |
| | 301.00 | 276.00 | 115.00 | 2 | |
| Type of Test: | Whole Building | | | Internal Doors: | Open |
| Ventilation: | Continuous mechanical ventilation (CMEV) | | | External Door: | Closed |
| Primary Heating: | Heat Pump | | | External Windows: | Closed |
| Mastic Sealing: | Sanitary Ware Only | | | Trickle Vents: | Closed |
| Test Method: | B | | | Ventilation: | Temporary Sealed |
| Deviations From Test Standard: | | | | | |

TEST RESULTS:

| | | | |
|---|---------|---|--|
| Specified Air Permeability: | 3 | Envelope Air Permeability Result: | |
| Volume Air changes at 50 Pa, n50 [/h] | 1.95 | 2.13[m ³ /h/m ²] | |
| Flow per Floor Area at 50 Pa, [m ³ /h/m ²] | 5.11 | | |
| Air flow at 50 Pa, [m ³ /h] | 588.71 | | |
| Slope, n: | 0.65618 | | |
| Correlation, r [%]: | 0.9982 | | |
| Air Flow Coefficient, Cenv: | 45.17 | | |
| Air Leakage Coefficient, CL: | 45.19 | | |

TEST PROCEDURE:

The result attained during this test was – 2.13. m³/(hr.m²) The result is below the target specified air permeability of 3.(m³/h/m²) at 50 Pa. This report relates to the air tightness testing of the building indicated above as required under the building regulations. The building has been tested in accordance with the following standards. EN ISO 9972:2015, CIBSE Technical Manual TTM2 (with reference to ATTMA TSL1/TLS2/TSL3) and BCTS Ltd ISO17025 quality management system. Refer to terms and condition for MU. The external envelope was calculated by BCTS from drawings issued by the client.



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TEST DATA:

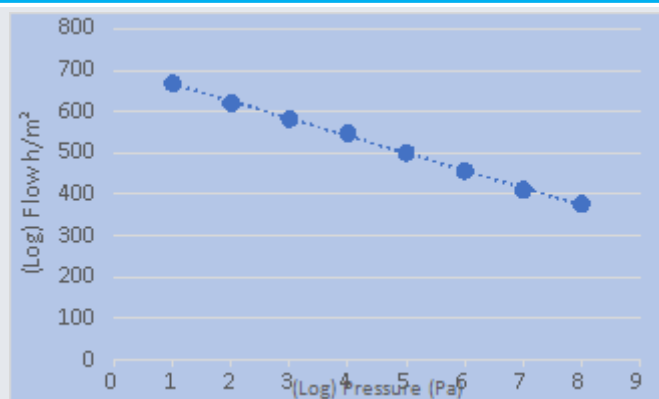
DEPRESSURIZE DATA SET:

| STATIC PRESSURE: | $\Delta P+$ | $\Delta P-$ | ΔP | TEMPERATURE AFTER: | INSIDE: | OUTSIDE: |
|------------------|-------------|-------------|------------|--------------------|---------|----------|
| BEFORE: | .0 PA | -.3 PA | -.3 PA | | 17.0°C | 19.0°C |

| | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Building Pressure (Pa): | -60.00 | -55.00 | -50.00 | -45.00 | -40.00 | -35.00 | -30.00 | -25.00 |
| Total Flow Q_r (m ³ /h): | 669.00 | 621.00 | 583.00 | 548.00 | 501.00 | 457.00 | 411.00 | 377.00 |
| Corrected Flow Q_{env} (m ³ /h): | 664.86 | 617.16 | 579.39 | 544.61 | 497.90 | 454.17 | 408.45 | 374.67 |
| Error Rate (%): | 1.4 | -0.3 | -0.3 | 0.4 | -0.7 | -1.0 | -1.4 | 2.1 |

| STATIC PRESSURE: | $\Delta P+$ | $\Delta P-$ | ΔP | TEMPERATURE AFTER: | INSIDE: | OUTSIDE: |
|-----------------------------|-------------|-------------|------------|--------------------|---------|----------|
| AFTER: | .0 PA | -.5 PA | -.5 PA | | 17.0°C | 19.0°C |
| Average Barometric Pressure | 101.1 kPa | | | | | |

TEST GRAPH:



EQUIPMENT:

| DEVICE: | SERIAL NO: | CALIBRATION: |
|---------------------|------------|--------------|
| RETROTEC 300 | 3XLFT01370 | Feb 6 2028 |
| DM32X | 501785 | Aug 23 2029 |
| C12 DIGITAL READOUT | 05190814 | Jan 6 2026 |
| GPB3300 | 10004 | Jan 6 2026 |

NOTES:

CHECKED AND SIGNED OF BY: Brian Cunningham Director

DATE:

Jul 22 2024

Disclaimer

This report has been prepared based on a defined scope of works with reasonable care, skill and diligence. The contents of this report are intended for recipient only and should not be shared with any third part without the express permission of BCTS Ltd. Should any third part come into possession with this report they rely on it at their own risk

Version 4

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