

BCTS

BUILDING COMPLETION TESTING SERVICES



INAB Accredited Air Tightness Test Report

Report Number : 1689

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INAB ACCREDITED AIRTIGHTNESS TEST REPORT

REPORT NUMBER 1689 (20964)

INAB ISO 17025 REGISTRATION NUMBER: 390T

| DATE OF TEST: | PERFORMED FOR: | PERFORMED BY: | OPERATOR LOCATION: |
|---------------|------------------------|--------------------|--------------------|
| 17/08/2022 | Be Energy Partners Ltd | Brian P Cunningham | Inside |

BUILDING DETAILS:

| | | | | | | |
|--------------------------------|--|---------------------|------------------|-------------------|------------------|--|
| Site address: | Site_93 Maplewood ParkDublin D24 | | | | | |
| Building Type: | House – Mid Terrace | | | | | |
| Construction: | Traditional | | | | | |
| Measurements: | Building volume [m³]: | Envelope Area [m²]: | Floor Area [m²]: | | Storeys: | |
| | 208.00 | 214.00 | 85.00 | | 2 | |
| Type of Test: | Whole Building | | | Internal Doors: | Open | |
| Ventilation: | System 1 - Background ventilators with intermittent extractors | | | External Door: | Closed | |
| Primary Heating: | Gas | | | 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: | 0 | Envelope Air Permeability Result: | |
| Volume Air changes at 50 Pa, n50 [/h] | 8.59 | 8.35[m³/h/m²] | |
| Flow per Floor Area at 50 Pa, [m³/h/m²] | 21.03 | | |
| Air flow at 50 Pa, [m³/h] | 1787.88 | | |
| Slope, n: | 0.62285 | | |
| Correlation, r [%]: | 0.99956 | | |
| Air Flow Coefficient, Cenv: | 156.15 | | |
| Air Leakage Coefficient, CL: | 156.36 | | |

TEST PROCEDURE:

The result attained during this test was – 8.35. m³/(hr.m²) The result is above the target specified air permeability of 0.(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:

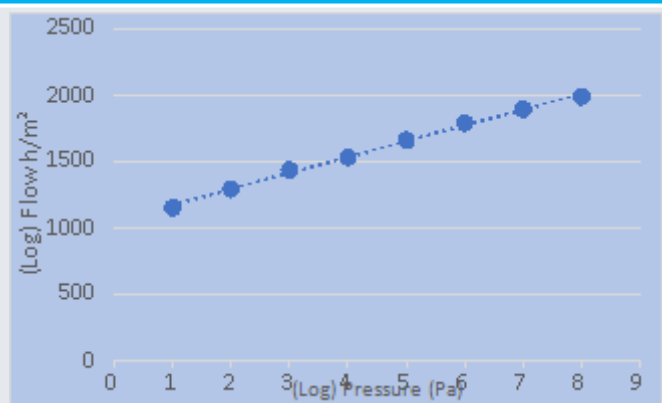
DEPRESSURIZE DATA SET:

| STATIC PRESSURE: | ΔP_+ | ΔP_- | ΔP | TEMPERATURE AFTER: | INSIDE: | OUTSIDE: |
|------------------|--------------|--------------|------------|--------------------|---------|----------|
| BEFORE: | .0 PA | -.2 PA | -.2 PA | | 15.7°C | 18.2°C |

| | | | | | | | | |
|---|---------|---------|---------|---------|---------|---------|---------|---------|
| Building Pressure (Pa): | -24.85 | -29.85 | -34.85 | -39.85 | -44.85 | -49.85 | -54.85 | -59.85 |
| Total Flow Q_r (m ³ /h): | 1153.00 | 1295.00 | 1437.00 | 1536.00 | 1661.00 | 1793.00 | 1896.00 | 1990.00 |
| Corrected Flow Q_{env} (m ³ /h): | 1143.57 | 1284.40 | 1425.24 | 1523.43 | 1647.41 | 1778.33 | 1880.49 | 1973.72 |
| Error Rate (%): | -0.2 | 0.0 | 0.8 | -0.9 | -0.4 | 0.6 | 0.3 | -0.3 |

| STATIC PRESSURE: | ΔP_+ | ΔP_- | ΔP | TEMPERATURE AFTER: | INSIDE: | OUTSIDE: |
|-----------------------------|--------------|--------------|------------|--------------------|---------|----------|
| AFTER: | .0 PA | -.1 PA | -.1 PA | | 15.7°C | 18.2°C |
| Average Barometric Pressure | 101.05 kPa | | | | | |

TEST GRATH:



EQUIPMENT:

| DEVICE: | SERIAL NO: | CALIBRATION: |
|---------------------|------------|--------------|
| RETROTEC 6000 | 3PH600642 | Aug 16 2027 |
| DM32 | 411226 | Aug 25 2027 |
| C12 DIGITAL READOUT | 08170072 | Jan 6 2026 |
| GPB3300 | 10001 | Jan 6 2026 |

NOTES:

CHECKED AND SIGNED OF BY: Brian Cunningham Director

DATE:

Aug 17 2022

Disclaimer

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