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| **INAB ACCREDITED BUILDING AIRTIGHTNESS TEST & RESULTS** |
| **Report Number:** | **2839** |
| **Building Name & Address** | **Site\_35 Castle Park, Killycard Monaghan** |
| **Client Details:** | **Meegan Builders (Castleblayney)** |
| **Test Date:** | **27/01/2023** |
| **Test Time:** | **08:32:00** | **DEAP Value:** |
| **Test Engineer:** | **Brian P Cunningham** | **RESULTS**  |
| **Tester position:** | **Inside** |
| **Building Measurements**  |  |
| **Volume, *V*:** | **344.00 m³** | **Air changes at 50 Pa, n50 [/h]:** | **2.80** |
| **Envelope Area, *Ae*:** | **325.00 m²** | **Air Permeability at 50 Pa, AP50:** | **2.966947m3.h-1.m-2** |
| **Floor Area, *Af*::** | **137.00 m²** | **Flow per Floor Area at 50 Pa, [m³/h/m²]:** | **964.25** |
|  | **Air flow at 50 Pa, [h/m²]:** | **964.25** |
|  | **Correlation Coefficient, r2:** | **0.99881** |
|  | **Slope, n:** | **0.813882265** |
|  | **Air Flow Coefficient, Cenv:** | **39.62 m3.h-1** |
|  | **Air Leakage Coefficient, CL:** | **39.94 m3.h-1** |
| **The Building achieved an air permeability of 2.966947 m3.h-1.m-2 This is Less than the specified air permeability of 3 m3.h-1.m-2 at 50 Pa building pressure** |
| **Test Data** | **Depressurized or Pressurized Method 2**  |
| **Start (Pa):** | **1.10** | **1.20** | **1.30** | **Start Inside Temperature** | **17.6°C** | **Start Outside Temperature** | **9.8°C** |
| **Building (Pa)** | **-25.00** | **-30.00** | **-35.00** | **-40.00** | **-45.00** | **-50.00** | **-55.00** | **-60.00** |
| **Flow** | **1123.00** | **1047.00** | **988.00** | **904.00** | **810.00** | **723.00** | **621.00** | **549.00** |
| **Error** | **-1.0** | **-0.7** | **1.4** | **1.3** | **0.2** | **0.0** | **-2.2** | **1.0** |
| **End (Pa):** |  |  |  | **End Inside Temperature** | **17.6°C** | **End Outside Temperature** | **9.8°C** |
| **Average Barometric Pressure** | **102.12 kPa** | **Wind Speed** |  |

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| ***Graph of Building Pressure*** |  | ***Equipment details used in test*** |
|  |  | **Equipment Type** | **Serial No……** | **16/08/2022** |
|  | **#1 Fan:** | **3PH600642** |  |
|  | **Manometer:** |  |  |
|  | **Barometer:** |  |  |
|  | **Thermometer:** |  |  |
| ***Information of building*** |
| **Type of Test:** | **Whole Building** |
| **Internal Doors:** | **Open** |
| **External Doors:** | **Closed** |
| **External Windows:** | **Closed** |
| **Trickle Vents:** | **Closed & Sealed** |
| **Ventilation:** | **System 3 - Continuous Mechanical Extraction** | **Sealed** |
| **Heating:** | **Gas/Oil/Heap Pump** |
| **Deviations from Standard’s Notes:** |
| ***The building has been tested in accordance with the following standards. EN ISO 9972:2015, 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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| **Checked by and signed off by:** | **Brian Cunningham:**  | **Director.** | **Date:** |