|  |
| --- |
| **INAB ACCREDITED BUILDING AIRTIGHTNESS TEST & RESULTS** |
| **Report Number:** | **2429** |
| **Building Name & Address** | **Farthagorman Carrickmacross Monaghan A81 FD96** |
| **Client Details:** | **D&C Mac Construction** |
| **Test Date:** | **29/11/2022** |
| **Test Time:** | **09:30:00** | **DEAP Value:** |
| **Test Engineer:** | **Brian P Cunningham** | **RESULTS**  |
| **Tester position:** | **Inside** |
| **Building Measurements**  |  |
| **Volume, *V*:** | **617.1 m³** | **Air changes at 50 Pa, n50 [/h]:** | **2.59** |
| **Envelope Area, *Ae*:** | **505 m²** | **Air Permeability at 50 Pa, AP50:** | **3.16589m3.h-1.m-2** |
| **Floor Area, *Af*::** | **235.9 m²** | **Flow per Floor Area at 50 Pa, [m³/h/m²]:** | **1598.77** |
|  | **Air flow at 50 Pa, [h/m²]:** | **1598.77** |
|  | **Correlation Coefficient, r2:** | **0.99896** |
|  | **Slope, n:** | **0.667926876** |
|  | **Air Flow Coefficient, Cenv:** | **116.34 m3.h-1** |
|  | **Air Leakage Coefficient, CL:** | **117.21 m3.h-1** |
| **The Building achieved an air permeability of 3.16589 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** | **9.9°C** | **Start Outside Temperature** | **8.7°C** |
| **Building (Pa)** | **-59.05** | **-54.05** | **-49.05** | **-44.05** | **-39.05** | **-34.05** | **-29.05** | **-24.05** |
| **Flow** | **990.00** | **1118.00** | **1237.00** | **1379.00** | **1504.00** | **1570.00** | **1688.00** | **1809.00** |
| **Error** | **0.2** | **-0.3** | **-0.8** | **0.9** | **1.6** | **-1.3** | **-0.6** | **0.4** |
| **End (Pa):** |  |  |  | **End Inside Temperature** | **9.9°C** | **End Outside Temperature** | **8.7°C** |
| **Average Barometric Pressure** | **99.64 kPa** | **Wind Speed** |  |

|  |  |  |
| --- | --- | --- |
| ***Graph of Building Pressure*** |  | ***Equipment details used in test*** |
|  |  | **Equipment Type** | **Serial No……** | **16/08/2022** |
|  | **#2 Fan:** | **3PH600646** |  |
|  | **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.***  |
|
| **Checked by and signed off by:** | **Brian Cunningham:**  | **Director.** | **Date:** |