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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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:** | | |