



BCTS

BUILDING COMPLETION TESTING SERVICES



INAB Accredited Air Tightness Test Report

Report Number : 9799

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INAB ACCREDITED AIRTIGHTNESS TEST REPORT

REPORT NUMBER 9799 (28853)

INAB ISO 17025 REGISTRATION NUMBER: 390T

DATE OF TEST:	PERFORMED FOR:	PERFORMED BY:	OPERATOR LOCATION:
17/04/2025	Lagan Homes Ireland	Raymond Mc Kenna	Inside

BUILDING DETAILS:

Site address:	Site_192 Gort Mell, Old Slane Road, Drogheda				
Building Type:	House – Semi Detached				
Construction:	Timber Frame				
Measurements:	Building volume [m³]:	Envelope Area [m²]:	Floor Area [m²]:	Storeys:	
	371.00	320.00	136.00	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:	5	Envelope Air Permeability Result:	
Volume Air changes at 50 Pa, n50 [/h]	1.75	2.03[m ³ /h/m ²]	
Flow per Floor Area at 50 Pa, [m ³ /h/m ²]	4.77		
Air flow at 50 Pa, [m ³ /h]	649.83		
Slope, n:	0.69633		
Correlation, r [%]:	0.99872		
Air Flow Coefficient, C _{env} :	42.26		
Air Leakage Coefficient, C _L :	42.63		

TEST PROCEDURE:

The result attained during this test was – 2.03. m³/(hr.m²) The result is below the target specified air permeability of 5.(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:

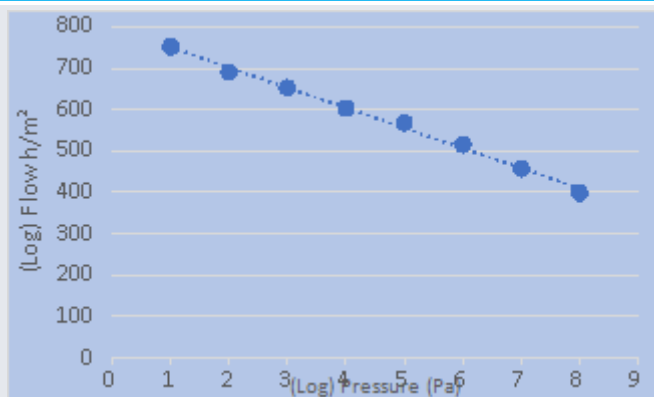
DEPRESSURIZE DATA SET:

STATIC PRESSURE:	$\Delta P+$	$\Delta P-$	ΔP	TEMPERATURE AFTER:	INSIDE:	OUTSIDE:
BEFORE:	.0 PA	-.5 PA	-.5 PA		15.0°C	11.0°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):	753.00	691.00	653.00	604.00	569.00	516.00	458.00	399.00
Corrected Flow Q_{env} (m ³ /h):	745.76	684.36	646.72	598.20	563.53	511.04	453.60	395.16
Error Rate (%):	1.0	-1.5	-0.4	-0.8	1.5	1.1	0.0	-0.9

STATIC PRESSURE:	$\Delta P+$	$\Delta P-$	ΔP	TEMPERATURE AFTER:	INSIDE:	OUTSIDE:
AFTER:	.0 PA	-.3 PA	-.3 PA		15.0°C	11.0°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: Apr 17 2025

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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