

# BCTS

BUILDING COMPLETION TESTING SERVICES



## INAB Accredited Air Tightness Test Report

Report Number : 9131

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## INAB ACCREDITED AIRTIGHTNESS TEST REPORT

REPORT NUMBER 9131 (33438)

INAB ISO 17025 REGISTRATION NUMBER: 390T

DATE OF TEST:	PERFORMED FOR:	PERFORMED BY:	OPERATOR LOCATION:
04/02/2025	Meegan Builders (Castleblayney) Ltd	Raymond Mc Kenna	Inside

### BUILDING DETAILS:

Site address:	Site_7 Listoke Wood Ballymakenny Drogheda Louth				
Building Type:	House – Semi Detached				
Construction:	Timber Frame				
Measurements:	Building volume [m³]:	Envelope Area [m²]:	Floor Area [m²]:	Storeys:	
	345.00	319.00	128.19	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:	3	Envelope Air Permeability Result:	
Volume Air changes at 50 Pa, n50 [/h]	2.40	2.60 <sub>[m<sup>3</sup>/h/m<sup>2</sup>]</sub>	
Flow per Floor Area at 50 Pa, [m <sup>3</sup> /h/m <sup>2</sup> ]	6.46		
Air flow at 50 Pa, [m <sup>3</sup> /h]	828.81		
Slope, n:	0.55426		
Correlation, r [%]:	0.99328		
Air Flow Coefficient, C <sub>env</sub> :	93.08		
Air Leakage Coefficient, C <sub>L</sub> :	94.79		

### TEST PROCEDURE:

The result attained during this test was – 2.60. m<sup>3</sup>/(hr.m<sup>2</sup>) The result is below the target specified air permeability of 3.(m<sup>3</sup>/h/m<sup>2</sup>) 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.

Version 4

Building Completion Testing Services Ltd  
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### TEST DATA:

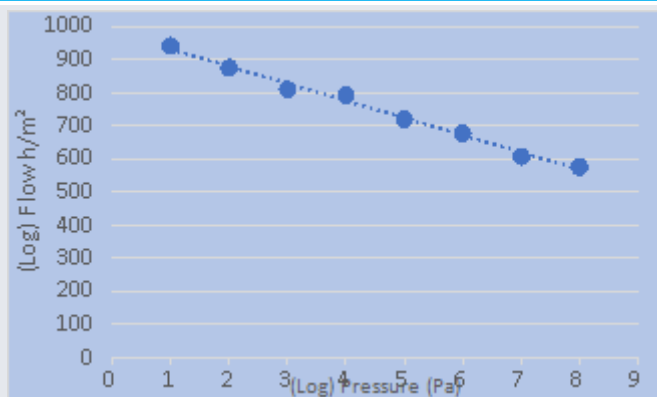
#### DEPRESSURIZE DATA SET:

STATIC PRESSURE:	$\Delta P+$	$\Delta P-$	$\Delta P$	TEMPERATURE AFTER:	INSIDE:	OUTSIDE:
BEFORE:	.0 PA	-.6 PA	-.6 PA		8.5°C	5.4°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 <sup>3</sup> /h):	943.00	877.00	811.00	793.00	722.00	679.00	609.00	577.00
Corrected Flow $Q_{env}$ (m <sup>3</sup> /h):	927.06	862.18	797.29	779.60	709.80	667.52	598.71	567.25
Error Rate (%):	2.4	0.0	-2.4	1.2	-1.5	-0.1	-2.3	2.7

STATIC PRESSURE:	$\Delta P+$	$\Delta P-$	$\Delta P$	TEMPERATURE AFTER:	INSIDE:	OUTSIDE:
AFTER:	.0 PA	-.7 PA	-.7 PA		8.5°C	5.4°C
Average Barometric Pressure	100.29 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: Feb 4 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

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