



BCTS


BUILDING COMPLETION TESTING SERVICES



INAB Accredited Air Tightness Test Report


Report Number : 9811


Connaught House, Castlerea Rosscomon Roscommon

 +353 (0) 429419086

 info@bctsltd.ie


 www.bctsltd.ie

 Árd Easmuinn Road, Dundalk, Co Louth, A91 N5FN

 +44 (0) 28 3888 2938

 info@bctsltd.com

 www.bctsltd.com

 Newforge Road, Magheralin, Co Armagh, BT67 0QW



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INAB ACCREDITED AIRTIGHTNESS TEST REPORT

REPORT NUMBER 9811 (36812)

INAB ISO 17025 REGISTRATION NUMBER: 390T

DATE OF TEST:	PERFORMED FOR:	PERFORMED BY:	OPERATOR LOCATION:
23/04/2025	Connaught Contractors	Lorcán Mc Kee	Inside

BUILDING DETAILS:

Site address:	Connaught House, Castlerea Roscommon Roscommon				
Building Type:	Educational				
Construction:	Traditional		Build In:		
Measurements:	Building volume [m ³]:	Envelope Area [m ²]:	Floor Area [m ²]:	Storeys:	
	2146.00	1992.00	753.00	1	
Type of Test:	Whole Building		Internal Doors:	Open	
Ventilation:			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]	3.77	4.07 [m ³ /h/m ²]
Flow per Floor Area at 50 Pa, [m ³ /h/m ²]	10.75	
Air flow at 50 Pa, [m ³ /h]	8100.41	
Slope, n:	0.58637	
Correlation, r [%]:	0.99944	
Air Flow Coefficient, C _{env} :	807.88	
Air Leakage Coefficient, C _L :	817.11	

TEST PROCEDURE:

The result attained during this test was – 4.07. 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:

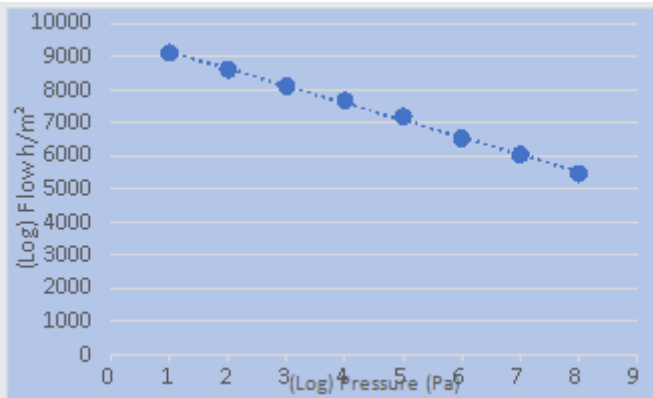
DEPRESSURIZE DATA SET:

STATIC PRESSURE:	$\Delta P+$	$\Delta P-$	ΔP	TEMPERATURE AFTER:	INSIDE:	OUTSIDE:
BEFORE:	.1 PA	.0 PA	.1 PA		13.1°C	12.8°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):	9125.00	8626.00	8124.00	7681.00	7199.00	6551.00	6051.00	5483.00
Corrected Flow Q_{env} (m ³ /h):	8985.69	8494.31	7999.97	7563.74	7089.10	6450.99	5958.62	5399.29
Error Rate (%):	0.5	0.0	-0.4	0.1	0.5	-1.2	-0.1	0.6

STATIC PRESSURE:	$\Delta P+$	$\Delta P-$	ΔP	TEMPERATURE AFTER:	INSIDE:	OUTSIDE:
AFTER:	.3 PA	.0 PA	.3 PA		13.1°C	12.8°C
Average Barometric Pressure	101.59 kPa					

TEST GRAPH:



EQUIPMENT:

DEVICE:	SERIAL NO:	CALIBRATION:
RETROTEC 6000	3PH603381	Apr 20 2028
DM32X	500194	Mar 23 2028
C12 DIGITAL READOUT	5190812	
GPB3300	10001	Jan 6 2027

NOTES:

CHECKED AND SIGNED OF BY: Brian Cunningham Director

DATE:

Apr 23 2025

Disclaimer

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