BUILDING LEAKAGE TEST

Date of Test: 09/02/2023 Test File: Untitled

Technician: Domazetovic
Project Number: HRZZ

Customer: Building Address: Hala

Test Results at 50 Pascals:

q_{50} :	m³/h (Airflow)	272 (+/- 15.9 %)
n_{50} :	1/h (Air Change Rate)	10.48
q_{F50} :	m³/(h·m² Floor Area)	24.77
q_{E50} :	m³/(h·m² Envelope Area)	3.63

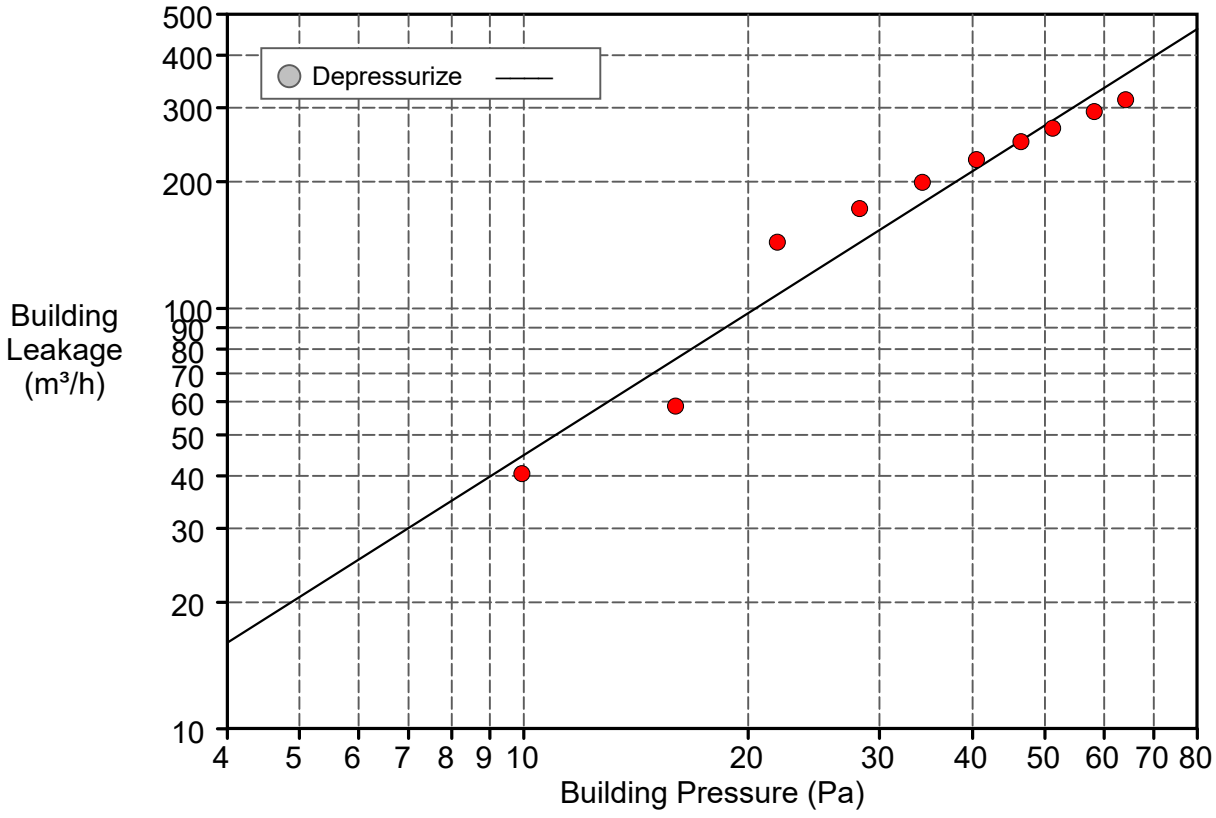
Leakage Areas:

ELA_{50} :	m²	0.0083 (+/- 15.9 %)
ELA_{F50} :	m²/m²	0.0007550
ELA_{E50} :	m²/m²	0.0001107

Building Leakage Curve:

Air Flow Coefficient (C_{env}) = 3.4 m³/(h·Paⁿ) (+/- 77.4 %)
Air Leakage Coefficient (C_L) = 3.4 m³/(h·Paⁿ) (+/- 77.4 %)
Exponent (n) = 1.122 (+/- 0.220)
Coefficient of Determination (r²) = 0.94527

Test Standard: ISO 9972
Test Mode: Depressurization
Type of Test Method:
Purpose of Test:



Date of Test: 09/02/2023 Test File: Untitled

Building Information

Internal Volume, V (m³) (according to ISO)	26
Net Floor Area, A_F (m²) (according to ISO)	11
Envelope Area, A_E (m²) (according to ISO)	75
Height (m)	2.45
Uncertainty of Dimensions (%)	3
Year of Construction	
Type of Heating	
Type of Air Conditioning	
Type of Ventilation	None
Building Wind Exposure	Highly Protected Building
Wind Class	Calm

Equipment Information

Type	Manufacturer	Model	Serial Number	Custom Calibration Date
Fan	Energy Conservatory	Model 3 (110V)		-
Micromanometer	Energy Conservatory	DG700	62127	08/01/2013

Date of Test: 09/02/2023 Test File: Untitled

Depressurization Test:

Environmental Data

Indoor Temperature (°C)	Outdoor Temperature (°C)	Barometric Pressure (Pa)
19.0	1.0	101325.0

Baseline Pressure Data

Pre-Test			Post-Test		
$\Delta p_{0,1}$-	$\Delta p_{0,1}$+	$\Delta p_{0,1}$	$\Delta p_{0,2}$-	$\Delta p_{0,2}$+	$\Delta p_{0,2}$
-0.3	0.0	-0.3	-0.4	0.0	-0.4

Data Points - Automated Test (TTE 5.0.8.4)

Nominal Building Pressure (Pa)	Baseline adjusted Building Pressure (Pa)	Fan Pressure (Pa)	Nominal Flow q_r (m³/h)	Adjusted Flow q_{env} (m³/h)	Adjusted Flow q_L (m³/h)	% Error	Fan Configuration
-0.3	n/a	n/a					
-64.5	-64.2	77.0	337	316	314	-13.0	Ring C
-58.5	-58.2	67.9	316	296	294	-9.1	Ring C
-51.5	-51.2	56.8	289	270	268	-4.2	Ring C
-46.7	-46.4	49.1	268	251	249	-0.7	Ring C
-40.8	-40.5	40.7	243	228	226	5.2	Ring C
-34.6	-34.2	31.8	214	201	199	11.8	Ring C
-28.5	-28.2	24.1	186	174	173	20.6	Ring C
-22.2	-21.9	16.8	155	145	144	33.3	Ring C
-16.3	-16.0	27.5	63	59	59	-22.7	Ring D
-10.3	-9.9	70.4	44	41	40	-9.1	Ring E
-0.4	n/a	n/a					

Deviations from Standard ISO 9972 - Test Parameters

- n value (1.122) outside of acceptable limits ($0,5 \leq n \leq 1$).
- Coefficient of Determination (0.945) outside of acceptable limits ($0,98 \leq r^2 \leq 1$).

Date of Test: 09/02/2023 Test File: Untitled

Comments

None